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IT/3002/DCG/Dir (Systems)

16 Jan 2023

**(Vendor Concerned)**

**CLARIFICATION ON PRE-BID QUERIES**  
**'DIGITAL COAST GUARD (DCG) PROJECT INCLUDING CORE IT INFRASTRUCTURE**  
**FOR ICG (DATA CENTRE, DISASTER RECOVERY DATA CENTRE, NEAR LINE DATA**  
**CENTRE, PAN ICG MPLS/ VSAT CONNECTIVITY) AND ERP PACKAGE 'SAFAL'**  
**COMPRISING SURFACE & AVIATION OPS LOGISTIC, FINANCE AND HUMAN**  
**RESOURCE MANAGEMENT MODULES**  
**CATEGORY: BUY (INDIAN)**

1. Reference is made to Request for Technical and Commercial Proposal for procurement of Digital Coast Guard (DCG) project including Core IT Infrastructure for ICG (Data Centre, Disaster Recovery Data Centre, Near Line Data Centre, PAN ICG MPLS/ VSAT Connectivity) and ERP Package 'SAFAL' comprising Surface & Aviation Ops Logistic, Finance and Human Resource Management Modules under Buy (Indian) category issued vide this office No. IT/3002/DCG/Dir (Systems) dated 03 Nov 2022 and your queries thereof.
2. Clarifications on queries are attached as Appendix.
3. For your info and necessary action please.



Encl : As above (481 pages only)

**Copy to :-**

**Project Director (Indg & DCG)**

(Pushpender Choudhary)  
Col  
Director (Systems)

**PRE-BID QUERIES RELATED WITH PRE-QUALIFICATION CRITERIA**

	Sl.	Parameters	Prequalification	Vendor Query	ICG Remarks	Vendor
	<b>Financial</b>					
1		Credit Rating	Long term credit rating of CCR-BBB or better and SME-04 or better as on 31 <sup>st</sup> March of the previous financial year.	(i) "(a) Credit Rating- Long term credit rating from any of the RBI approved credit rating agency for BBB or better / SME-04 or better as on 31st March of the previous financial year. Justification: CCR is crisil rating and therefore it is limited, it should be any RBI credit rating"	As per conditions laid down at para 1(1.a) of Appendix-N on page 488 of the RFP, credit rating of CCR-BBB or better/ SME-04 or better/ any equivalent rating may be provided. Bidder to provide credit rating as per their eligibility.	Ishan
2				May please share equivalent rating for ICRA	As per conditions laid down at para 1(1.a) of Appendix-N on page 488 of the RFP, credit rating of CCR-BBB or better/ SME-04 or better/ any equivalent rating may be provided.	Railtel
3				Since SME-04 is applicable for Small and Medium enterprises and long term credit rating is applicable for Large Scale enterprises, any one of the rating is applicable to the bidding entity and not both.Hence we request to modify the clause as:  Long-term credit rating of CCR-BBB or better and or SME-04 or better as of 31st March of the previous financial year.	As per conditions laid down at para 1(1.a) of Appendix-N on page 488 of the RFP, credit rating of CCR-BBB or better/ SME-04 or better / any equivalent rating. Bidder to provide credit rating as per their eligibility.	L&T
4	(b)	Average Annual TurnOver	Min Avg Annual Turnover for last 03 financial years, ending 31 <sup>st</sup> March of the previous financial year, should not be less than 100 Cr.	(i) Turnover from the group* companies shall also be considered for meeting this criterion.	Bidder to meet the financial criteria as per the conditions laid down in para 3(d) of Annexure-IV to Appendix-A on page 74 of DAP-2020.	(i) Yotta

	<b>Sl.</b>	<b>Parameters</b>	<b>Prequalification</b>	<b>Vendor Query</b>	<b>ICG Remarks</b>	<b>Vendor</b>
5	(c)	Net worth	Net worth of entities, ending 31 <sup>st</sup> march of the previous financial year, should not be less than 31 Cr.	Turnover from the group* companies shall also be considered for meeting this criterion.	Bidder to meet the financial criteria as per the conditions laid down in para 3(d) of Annexure-IV to Appendix-A on page 74 of DAP-2020.	(i) Yotta
6	(d)	Insolvency	The entity should not be under insolvency resolution as per IBC at any stage of procurement process from the issuing of RFP to the signing of contract.	No Query	NA	
	2	<b>Technical</b>				
7	(a)	Nature of Business	System Integrator of ICT/ Data centres/ Networking of similar nature projects (read with Para 5 & 6 below) and not a trading company, except in cases where OEM participates only through its authorised Vendors.	We request to modify the clause as:  System Integrator of ICT/ Data centres/ Networking of similar nature projects (read with Para 5 & 6 below) having any 2 of the following elements a) DC/DR b) Networking c) ERP and not a trading company, except in cases where OEM participates only through its authorised Vendors.	As per conditions laid down at para 1(2.a) of Appendix-N on page 488 and para 5 & 6 on page 492 of the RFP, in case of single entity, bidder must have implemented project encompasses all the elements.  In case of consortium/ JV or partnership, at least one of the partners must have undertaken atleast one project encompassing one of the components.	L&T

	<b>Sl.</b>	<b>Parameters</b>	<b>Prequalification</b>	<b>Vendor Query</b>	<b>ICG Remarks</b>	<b>Vendor</b>
8	(b)	Experience in related field	Min 02 Yrs. experience in System Integration & turnkey projects of similar nature (read with Para 5 & 6 below). If not, then cumulative experience of at least 03 years in system integration, designing & commissioning of data centers / networking. (In case SHQ feels that for particular equipment a lesser experience could be accepted, then the same should be specifically approved by the RFP approving authority before including the same in the RFP).	<p>(i) We request to modify the clause as:</p> <p>Min 02 Yrs. experience in System Integration &amp; turnkey projects of similar nature (read with Para 5 &amp; 6 below) having any 2 of the following elements</p> <p>a) DC/DR b) Networking c) ERP</p> <p>If not, then cumulative experience of at least 03 years in system Integration, designing &amp; commissioning of data centers / networking.</p>	<p>As per conditions laid down at para 1(2.a) of Appendix-N on page 488 and para 5 &amp; 6 on page 492 of the RFP, in case of single entity, bidder must have implemented project encompasses all the elements.</p> <p>In case of consortium/ JV or partnership, at least one of the partners must have undertaken atleast one project encompassing one of the components.</p>	(i) L&T
9				In case of consortium, JV or partnership, the financial and Technical criteria at serial 1 & 2 are to be jointly fulfilled / complied by consortium, partner or JV.	<p>(i) Bidder can meet the technical criteria as a single entity or as a consortium/ JV partnership. In this regard refer para 5,6 of Appendix-N on page 492 of RFP, Any of the consortium or JV partner must have experience of atleast one of the similar projects.</p> <p>(ii) Bidder can meet the financial criteria as per the conditions laid down in para 3(d) of Appendix-N on page 74 of DAP-2020.</p>	(ii) Ishan

	SI.	Parameters	Prequalification	Vendor Query	ICG Remarks	Vendor
10	(c)	(i) Integration Experience	(i) Experience of not less than one project in integration of similar ICT projects (read with Para 5 & 6 below).	(i) Experience of not less than one project in integration of similar ICT projects (read with 5&6 below) having any 2 of the following elements: (a) DC/DR (b) Networking. (c) ERP solution	As per conditions laid down at para 1(2.a) of Appendix-N on page 488 and para 5 & 6 on page 492 of the RFP, in case of single entity, bidder must have implemented project encompasses all the elements. In case of consortium/ JV or partnership, at least one of the partner must have undertaken atleast one project encompassing one of the component.	L&T
11		(ii) Turnkey Projects Experience	(ii) Turnkey Projects - Experience of successful completion of one similar project as defined in para 5 to 6 below within last 05 Years with value of at least 125 Cr. or currently executing a contract of similar nature with value of at least 185 Cr.	(ii) Turnkey Projects - Experience of successful completion of one similar project having any 2 of the elements (DC/DR, Networking, ERP solution) as defined In para 5 to 6 below within last 05 Years with value of at least 125 Cr. or currently executing a contract of similar nature with value of at least 185 Cr.	As per conditions laid down at para 1(2.a) of Appendix-N on page 488 and para 5 & 6 on page 492 of the RFP, in case of single entity, bidder must have implemented project encompasses all the elements. In case of consortium/ JV or partnership, at least one of the partner must have undertaken atleast one project encompassing one of the component.	L&T
12				It is requested to consider "Turnkey Projects - Experience of successful completion of one similar project as defined in para 5 to 6 below within last 10 Years with value of at least 125 Cr. or currently executing a contract of similar nature with value of at least 185 Cr.	As per RFP conditions as laid down in para 1(2.c) of Appendix-N on page 489 and para 5 & 6 of Appendix-N on page 492, bidder must have experience of successful completion of one similar project in last 5 yrs only.	Raitel
13	(d)	Quality Control	The bidder, in case of single entity or concerned partners in case of Consortiums/ JV should possess below mentioned	Allow Following Certifications: - • CMMi Level-3. • ISO 9001:2008/ ISO 9001:2015 for Quality Management System.	Bidder to meet the conditions as laid down at para 1(2.d) of Appendix-N on page 489 of RFP, the requirement is CMMi-5	Ishan

	Sl.	Parameters	Prequalification	Vendor Query	ICG Remarks	Vendor
			<p>certifications which are required to be valid at least 18 months from the date of bid submission. In case the validity is due to expire during the intervening period, an undertaking is to be given by the bidder that such certification would be renewed prior expiry:-</p> <ul style="list-style-type: none"> <li>• CMMi Level-5</li> <li>• ISO 9001:2008/ ISO 9001:2015 for Quality Management System..</li> <li>• ISO/IEC 20000: 2011 for IT Service Management..</li> <li>• ISO 27001:2013 for Information Security Management System</li> <li>• Compliance with IEEE/ ITU standards depending upon nature/ type of project or solution required</li> </ul>	<ul style="list-style-type: none"> <li>• ISO/IEC 20000: 2011 for IT Service Management.</li> <li>• ISO 27001:2013 for Information Security Management System</li> </ul>	<p>certification. Criteria may be met as a single entity or consortium/ JV partner.</p>	
14				<p>TCIL has CMMi Level-3 certification, therefore it is requested to amend the certification to CMMi Level-3 or above or documents of consortium partner may please be accepted against eligibility.</p>	<p>Bidder to meet the conditions as laid down at para 1(2.d) of Appendix-N on page 489 of RFP, the requirement is CMMi-5 certification. Criteria may be met as a single entity or consortium/ JV partner.</p>	TCIL

	Sl.	Parameters	Prequalification	Vendor Query	ICG Remarks	Vendor
15				<p>The bidder, in case of single entity or concerned partners in case of Consortiums/ JV should possess below mentioned certifications which are required to be valid at least 18 months from the date of bid submission. In case the validity is due to expire during the intervening period, an undertaking is to be given by the bidder that such certification would be renewed prior expiry:-</p> <ul style="list-style-type: none"> <li>• CMMi Level-5</li> <li>• ISO 9001:2008/ ISO 9001:2015 for Quality Management System .</li> <li>• ISO/IEC 20000: 2011 for IT Service Management .</li> <li>• ISO/IEC 27000: 2013 for Information security Management system</li> <li>• Compliance with IEEE/ ITU standards depending upon nature/ type of project or solution required from OEM</li> </ul> <p>Valid copy of certificate.</p>	Bidder to provide experience certification as per conditions laid down at para 1(2.d) of Appendix-N on page 489 fo RFP.	L&T
16				In case of JV of 2-partners, it is mandatory to have for both partners to have the mentioned certifications or is it the lead bidder?	Either lead bidder and/ or partner should be in possession of mentioned certifications.	BEL
17				We understand that in case of Consortium, CMMi Level 5 of Consortium Partner is valid and accepted. Kindly confirm.	Bidder to meet the conditions as laid down at para 1(2.d) of Appendix-N on page 489 of RFP, the requirement is CMMi-5 certification. Criteria may be met as a single entity or consortium/ JV partner.	sterlite

	SI.	Parameters	Prequalification	Vendor Query	ICG Remarks	Vendor
18				May please consider CMMi level 4/ CMMi level5	Bidder to meet the conditions as laid down at para 1(2.d) of Appendix-N on page 489 of RFP, the requirement is CMMi-5 certification. Criteria may be met as a single entity or consortium/ JV partner.	Railtel
19	(e)	Data Centre	Bidder must have established minimum one Uptime institute certified Tier – III Data Centre in last five years.	Bidder must have established minimum one Uptime institute certified Tier – III Data Centre in last five years. Pls Amend this clause as Bidder must have established minimum one Uptime institute or TIA -942 certified Rated-3 Data Centre in last Five years.	Bidder must have established minimum one Uptime/ TIA-942 certified Tier- III Data Centre in last five years. However, the Selected (L1) bidder will have to construct proposed data centre as per Uptime Institute Tier-III certification standards IAW para 2(a)(i) on page 2 of RFP.	TCIL, Mahindra Defence,ITI, Mahindra Defence, L&T, Nikom
20				Request to modified the clause as "Bidder/ Consortium partner must have implemented minimum one Uptime institute certified Tier – III Data Centre in last five years.)	Bidder must have established minimum one Uptime/ TIA-942 certified Tier- III Data Centre in last five years. However, the Selected (L1) bidder to construct proposed data centre as per Uptime Institute Tier-III certification standards IAW para 2(a)(i) on page 2 of RFP.	TCIL



	Sl.	Parameters	Prequalification	Vendor Query	ICG Remarks	Vendor
21				ITI is a central PSU under Ministry of Communication & IT. ITI has set up tier 3 data center and doing commercial operation with Managed Services. The tender experience may be allowed to be met by ITI's experience with in-house data center used for commercial operations	Experience of the firm for constructing own (in-house) tier-III Uptime/ TIA 942 certified data centre shall be considered as mandatory project experience. In this regard, the firm needs to produce a certificate signed by authorised signatory indicating capacity and tier classification of data centre along with affirmation that third party vendors were not involved during construction of the said data centre.	ITI
22				Request to kindly amend/ remove Uptime Certified Clause, since some Defence / PSU data centers implemented are Tier-III, but not Uptime Certified as per the Customer requirement. Undertaking from Customer in such cases should be allowed. We have implemented more than 10- Tier -III Certified Data Centers for Indian Defence, but customer has not certified since it was not part of the RFP requirement.	Either prime bidder or consortium partner must have the requisite experience of establishment of one Uptime Tier- III or TIA- 942 rate-3 certified Data Centre in last five years.	Sterlite
23	(f)		Bidder must have established minimum 55 kW Data Centre Data Centre in last five years.	ITI is a central PSU under Ministry of Communication & IT. ITI has set up tier 3 data center and doing commercial operation with Managed Services. The tender experience may be allowed to be met by ITI's experience with inhouse data center used for commercial operations	Experience of the firm for constructing own tier-III Uptime/ TIA 942 certified data centre shall be considered as mandatory project experience. In this regard, the firm needs to produce a certificate signed by authorised signatory indicating capacity and tier classification of data centre along with	ITI

	SI.	Parameters	Prequalification	Vendor Query	ICG Remarks	Vendor
					affirmation that third party vendors were not involved during construction of the said data centre. However, the L1 bidder to construct proposed ICG data centre with Uptime Institute Tier-III certification IAW para 2(a)(i) on page 2 of RFP.	
24				It is requested to consider establishment of inhouse/owned Tier III certified DC and DR as similar project in last 10 years	No change. Bidder must have established in-house/ owned Uptime Tier- III / TIA- 942 rate-3 certified Data Centre in last five years.	Railtel
25				Request to modified the clause as "Bidder/ Consortium partner must have implemented minimum 45 kW Data Centre Data Centre in last five years.)	Refer para 4 of Appendix-N on page 491 of RFP for definition of bidder. Bidder to comply to the conditions at para 2(f) of Appendix-N on page no. 490 of RFP. Bidder/ any Consortium partner must have established minimum 55 KW Data Centre in last five years.	TCIL
26				Bidder must have established minimum 55 kW Data Centre Data Centre in last five years. Pls amend this clause as for this type of work where 340 kW IT load. Bidder must have established minimum 500 kW Data Centre in last Five years.	Bidder to comply to the condition at para 1(2.e) on page 490 of RFP. Your queries at Sl. 25 has contradicting statement. Bidder / Consortium partner must have established minimum 55 KW Data Centre in last five years.	TCS, TCIL
27				It is requested to consider "Bidder must have established minimum 55 kW Data Centre in last <b>ten years</b> ".	The Bidder to comply the conditions at para 1(2.f) of Appendix-N on page 490 of RFP. Bidder/ Consortium partner must have established minimum 55 KW Data Centre in last five years.	Railtel

	Sl.	Parameters	Prequalification	Vendor Query	ICG Remarks	Vendor
28	(g)	ERP	Bidder must have implemented ERP solution for minimum 4000 ERP licenses.	The project under implementation may also be allowed to meet the required experience. The experience may be allowed to be met from multiple projects	Project under implementation will be considered for project experience if it meets condition brought out at para 7 of appendix N of RFP. The experience gained from single project only will be considered as project experience.	ITI
29				Request to modified the clause as "Bidder/ Consortium partner must have implemented ERP solution for minimum 2000 ERP licenses in single work order or in consolidation of three work orders.)	Refer para 4 of Appendix-N on page 491 of RFP for definition of bidder. Bidder / Consortium partner must have experience of implementation of minimum 4000 ERP licences of ERP solution. The condition at para 2(g) of Appendix-N on page no. 490 of RFP to be complied.	TCIL
30				As there are multiple OEM solution and implementation agencies /SI. It is understood that Bidder implies Bidder or its Partner. Kindly confirm.	Read in conjunction with para 4 of Appendix-N on page 491 and para 5 of Appendix-N on page 492.	BEL
31				Request to allow experience of Consortium Partner for ERP implementation	Experience of consortium is allowed, provided, it must be from a single project.	Sterlite
32				Bidder's inhouse projects shall be considered against this criterion.	Bidders in-house project will be considered as experience	L&T
33	(h)		ERP product being offered as part of the solution should have at least one proven deployment in last 05 years.	It is understood that OEM certification will be sufficed against the said clause.	Refers to documentation requirement mentioned against para 2(h) of Appendix-N on page 490 of RFP.	TCIL
34	(j)		Offered ERP product must have the capabilities of offline deployment.	No Query	NA	

	Sl.	Parameters	Prequalification	Vendor Query	ICG Remarks	Vendor
35	(m)	Network	Bidder must have established minimum one MPLS or VSAT network.	The eligibility may be allowed to be met as a consortium	The Instant project has three major deliverables, namely creation of data centre, establishment of network and development of ERP application. Therefore, in the consortium, only one vendor is allowed for one deliverable. A vendor for civil construction can be allowed additionally for the purpose of making it maximum four partners in consortium. Accordingly, MPLS or VSAT network experience of network vendor of consortium only will be considered for the purpose of pre-qualification	ITI
	3	<b>Others</b>				
36	(a)	Industrial License	Possess or be in the process of acquiring a license, if the execution of similar project requires license as per DIPP licensing policy.	To be removed Justification: Industrial License is required for manufacturing the products only, as this is not related with System Integrator companies as the project is in a nature of integrating all the required essential parts of DATA CENTRE, DISASTER RECOVERY DATA CENTRE, NEAR LINE DATA CENTRE, PAN ICG MPLS/ VSAT CONNECTIVITY) AND ERP PACKAGE 'SAFAL'.	Possess or be in the process of acquiring a license, <b>if the execution of similar project requires license</b> as per DIPP/ DPIIT licensing policy. The clause is self-explanatory itself and does not warrant removal.	ISHAN
37	(b)	Registration	The bidder must be incorporated and registered in India under the Indian Companies Act 1956/ LLP Act 2008/ Partnership Act 1932 and Companies Act 2013 should have been operating for min 02 Years.	No Query	NA	

	SI.	Parameters	Prequalification	Vendor Query	ICG Remarks	Vendor
38			Min no. of years not applicable for JVs constituted specifically for this project.	No Query	NA	
39	(c)	Wilful Defaulters	The bidder's Promoters and/ or Directors should not be declared as wilful defaulters in connection with any previous/ ongoing/ prospective contracts concluded/ proposed to be concluded with MoD/ SHQs/ any other Ministries/ Government organisations (as defined in Guidelines for Penalties in Business Dealings with Entities issued vide Ministry of Defence, D(Vigilance) MoD ID No 31013/I/2006- D(Vig) Vol II dated 21 Nov 2016).	No Query	NA	
40	(d)	Blacklisted firm	The bidder should not be blacklisted by Central/ State Government Ministry/ Department/ PSU/ Government Company. Bidder also should not be under any legal action for indulging in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice with any Indian Central/ State Government Ministry/ Department/ PSU/ Government Company.	No Query	NA	
<b>General/ Definitions</b>						

	Sl.	Parameters	Prequalification	Vendor Query	ICG Remarks	Vendor
41	1	Consortium		As the scope of work of the project is huge, consortium (which is formed for the subject tender purpose by signing consortium agreement) with a System Integrator and ERP vendor may be allowed to address and implement the project. Consortium up to 3 members may kindly be allowed.	The Instant project has three major deliverables, namely creation of data centre, establishment of network and development of ERP application. Accordingly, in the consortium, one vendor is allowed for one deliverable. A vendor for civil construction will be allowed additionally for the purpose of making consortium. Considering the above facts, maximum members for formation of consortium to be limited to 04.	ITI
42		(5,6) Similar Projects, Page 492 of RFP	5. Similar Projects. For the purpose of this project, a similar project, wherever referred to in subsequent parts would imply a project, which encompasses all elements envisaged as part of the DCG project, i.e. it should have an element of data Centre/ disaster recovery data Centre implementation, a network implementation, and ERP based solution. However, if a bidder as a single entity may not have executed a single project encompassing all components, at least one of the partner firms in the partnership, JV or the consortium bidding for the project must have undertaken at least one project encompassing one of the components of the	Can "the lead bidder" be amended as " <u>one of the bidder</u> "	No. Please refer to para 5 of Appendix-N on page 492 of RFP, "In case of a consortium, JV or a partnership, the lead bidder must mandatorily have by itself implemented or implementing an ERP intensive project" may be read in conjunction with PQ Sl.C on page 489. Further, the lead bidder must have experience of implementation of any of the ERP projects. However, in case of consortium/ JV or partnership, any member must have implemented or implementing an ERP intensive project with minimum 4000 ERP licenses consisting atleast one module of logistics, finance or HR for qualifying similar project definition.	BEL, L&T, Railtel, Sterlite

	Sl.	Parameters	Prequalification	Vendor Query	ICG Remarks	Vendor
43			DCG project. In case of a consortium, JV or a partnership, the lead bidder must mandatorily have by itself implemented or implementing an ERP intensive project.	For the purpose of pre-qualification, please confirm that online ERP experiences shall be considered.		L&T
44				We understand bidder can meet this criterion from multiple projects. Kindly confirm.		
45			6. Further, following criteria will apply for qualifying the project or it's elements to be considered as a similar project:-  (a) Established Data Centre of at least 55 KW capacity and a Disaster Recovery Data Centre of at least half the capacity of the Data Centre. (b) Undertaken a MPLS/ VSAT network with minimum 50 nodes. (c) Implementation of proven ERP solution for minimum 4000 ERP licenses consisting at least one module of logistics, finance or HR.	We understand Bidder as a single entity can also showcase multiple projects encompassing one of the components of the DCG project to be cumulatively considered as a similar project. Kindly confirm.	Yes	
46				Request to amend the clause as "Established data center of atleast 55 kW capacity". As same is asked in PQ 1.2.f at page no 490.	For definition of "Similar projects", pl refer to Para 6(a)of Appendix-N on page 492 of RFP. However, bidder must have established minimum 55 kW Data Centre in last five years as mentioned in PQ para 1.2.f at page 490.	Mahindra Defence, ITI
47				It is understood that 125cr or 185cr is the cumulative value of DC, MPLS/VSAT & ERP projects undertaken by consortium. May please clarify.	Please refer Para 6 of Appendix-N on page 492 of RFP, both values asked as pre-qualification on para 2(c) Sl. (ii) of Appendix-N on page 489 (125 Cr or 185Cr) are cumulative values of the projects mentioned at para 6(a), 6(b) and 6(C) on page 492.	Railtel
48				May please clarify if submission of multiple purchase orders under each category i.e., DC/DR, MPLS/VSAT, ERP is allowed to arrive at 125cr or 185cr.	Submission of multiple purchase orders under each category i.e., DC/DR, MPLS/VSAT, ERP is not allowed. In this regards Para 6(a), 6(b) and 6(C) of Appendix-N on page 492 of RFP may be referred.	

	SI.	Parameters	Prequalification	Vendor Query	ICG Remarks	Vendor
49		IC Content	3. The salient aspects and timelines of the acquisition are tabulated below (d) Minimum IC Content required 45%	Minimum IC content specified in the RFP is 45%, please clarify if this is for overall average IC content for the supplied component or each item should have 45% of IC content?	IC content will be calculated as per Appendix - B to Ch-I of DAP-2020 and DAP-2020 is available in the MoD website. Same may be referred for details.	Mahindra Defence, HPE
50		Page no. 465 Appendix- J EVALUATION CRITERIA AND PRICE BID FORMAT	1.2. The Commercial bids of only those bidders who qualify in the TEC will be opened. The L-1 bidder would be determined by Contract Negotiation Committee (CNC).	Please clarify if L1 cost will be arrived with GST or without GST.	Please refer Para 1.2.2.2 of Appendix-N to schedule-I to Chapter-II of DAP - 2020 which states that the comparison of bids would be excluding all taxes & duties.	Mahindra Defence

**GENERAL TERMS AND SPECIAL FEATURES OF RFP RELATED PRE-BID QUERIES**

SI.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
1.	Section-2, Clause d/ Page no. 4	Special features of the RFP/ Go live Project Completion	Completion of Design & Construction Certification from Uptime Institute. Pls amend this clause. It shall be written as completion of Design & Construction Certification from Uptime Institute/ TIA 942.	Uptime Institute Tier-III certification is acceptable for DCG project.	<b>TCIL</b>
2.	Section-2, Clause d/ Page no. 4	Special features of the RFP/ Go live Project Completion	Completion of Design & Construction Certification from Uptime Institute. Pls amend this clause as completion of Design & Construction Certification from Uptime Institute/ TIA 942.		<b>Mahindra Defence</b>



Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
3.	4, Section-2, Clause d/	Special features of the RFP/ Go live Project Completion	Completion of Desgin & Construction Certification from Uptime Institute. Pls amend this cluase. It shall be written as completion of Desgin & Construction Certification from Uptime Institute/ TIA 942.		TCS
4.	492	6 Page No. 492	<p>Further, following criteria will apply for qualifying the project or its elements to be considered as a similar project:</p> <p>a. Established Data Centre of atleast 55 KW capacity and a Disaster Recovery Data Centre of atleast half the capacity of the Data Centre.</p> <p>b. Undertaken a MPLS/VSAT network with minimum 50 nodes.</p> <p>c. Implementation of proven ERP solution ERP solution for minimum 4000 ERP licenses consisting at least one module of logistics, finance or HR.</p> <p>We request to modify the clause as: Further, following any 2 criteria will apply for qualifying the project or its elements to be considered as a similar project:</p> <p>a. Established Data Centre of atleast 55 KW capacity and a Disaster Recovery Data Centre (on prem or cloud) of atleast half the capacity of the Data Centre.</p> <p>b. Undertaken a MPLS/VSAT network with minimum 50 nodes.</p> <p>c. Implementation of proven ERP solution ERP solution for minimum 4000 ERP licenses consisting at least one module of logistics, finance or HR.</p>	The bidder to comply to the conditions/ relevant clauses at para 6 of page 492 of the RFP.	L&T

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
5.	Appendix N Section -1/ Page no. 492	Pre-Qualification Criteria: 6.a) Established datacentre of at least 55 kW capacity and disaster recovery data center of at least half the capacity of the datacentre.	Request to amend the clause as "Established data center of atleast 55 kW capacity". As same is asked in PQ 1.2.f at page no 490.	For definition of "Similar projects", pl refer to Para 6(a)of Appendix-N on page 492 of RFP. However, bidder must have established minimum 55 kW Data Centre in last five years as mentioned in PQ para 1.2.f at page 490.	<b>Mahindra Defence</b>
6.	Appendix N Definitions	Established Data centre of at least 55 KW capacity and a Disaster Recovery Data centre of at least half the capacity of the Data centre.	The criteria may be allowed to be met as a consortium	As per the technical parameters laid at para 1.2.f on page 490 of RFP, Experience of any of the consortium member who has constructed 55kW capacity data centre only shall be eligible for the consideration in project experience.	<b>ITI</b>
7.	Appendix N Definitions	Further, following criteria will apply for qualifying the project.....	ITI being a Central PSU may be exempted from submission of EMD	EMD to be drawn as per guidelines of DAP-2020 and extant rules.	<b>ITI</b>
8.	492	6	Further, following criteria will apply for qualifying the project or its elements to be considered as a similar project: a. Established Data Centre of atleast 55 KW capacity and a Disaster Recovery Data Centre of atleast half the capacity of the Data Centre. b. Undertaken a MPLS/VSAT network with minimum 50 nodes. c. Implementation of proven ERP solution ERP solution for minimum 4000 ERP licenses consisting at least one module of logistics, finance or HR.	Bidder cannot meet the criteria using experience from multiple projects. However, bidder can fulfil the criteria by consortium or JV.	<b>L&amp;T</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			We understand bidder can meet this criteria from multiple projects. Kindly confirm.		
9.	Appendix N Definitions	Similar Projects: For the purpose of this project, a similar project, which ever referred to in....	The manpower with certification can be allowed to be met as a consortium	Bidder to comply with RFP clause as laid down at para 5 of page no. 492.	ITI
10.	492	5. Similar Projects	<p>For the purpose of this project, a similar project, wherever referred to in subsequent parts would imply a project, which encompasses all elements envisaged as part of the DCG project, i.e. it should have an element of data Centre/ disaster recovery data Centre implementation, a network implementation, and ERP based solution. However, if a bidder as a single entity may not have executed a single project encompassing all components, at least one of the partner firms in the partnership, JV or the consortium bidding for the project must have undertaken at least one project encompassing one of the components of the DCG project. In case of a consortium, JV or a partnership, the lead bidder must mandatorily have by itself implemented or implementing an ERP intensive project.</p> <p>We request to consider consortium member's ERP experience also, if Lead bidder is not having ERP experience asked in the RFP. Accordingly, we request to modify the clause as: For the purpose of this project, a similar</p>	Please refer to Para 5 on page 492 of RFP, "In case of a consortium, JV or a partnership, the lead bidder must mandatorily have by itself implemented or implementing an ERP intensive project" may be read in conjunction with PQ Sl. 2(c) of Appendix-N at page 489. Further, the lead bidder must have experience of implementation of any of the ERP projects. However, in case of consortium/ JV or partnership, any member must have implemented or implementing an ERP intensive project with minimum 4000 ERP licenses consisting atleast one module of logistics, finance or HR for qualifying similar project definition.	L&T

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>project, wherever referred to in subsequent parts would imply a project, which encompasses all elements envisaged as part of the DCG project, i.e. it should have an element of data Centre/ disaster recovery data Centre implementation, a network implementation, and ERP based solution. However, if a bidder as a single entity may not have executed a single project encompassing all components, at least one of the partner firms in the partnership, JV or the consortium bidding for the project must have undertaken at least one project encompassing one of the components of the DCG project. In case of a consortium, JV or a partnership, the lead bidder must mandatorily have by itself implemented or implementing an ERP intensive project.</p> <p>The lead bidder must have experience of implementation of any of the ERP projects. However, In case of consortium/ JV or partnership, any member must have implemented or implementing an ERP intensive project with minimum 4000 ERP licenses consisting atleast one module of logistics, finance or HR for qualifying similar project definition.</p>		
11.	492	5. Similar Projects	For the purpose of this project, a similar project, wherever referred to in subsequent parts would imply a project, which encompasses all elements	Bidder to comply to the Conditions laid down at Para 7 of Appendix-N on page 492 of RFP.	<b>L&amp;T</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>envisaged as part of the DCG project, i.e. it should have an element of data Centre/ disaster recovery data Centre implementation, a network implementation, and ERP based solution. However, if a bidder as a single entity may not have executed a single project encompassing all components, at least one of the partner firms in the partnership, JV or the consortium bidding for the project must have undertaken at least one project encompassing one of the components of the DCG project. In case of a consortium, JV or a partnership, the lead bidder must mandatorily have by itself implemented or implementing an ERP intensive project.</p> <p>We understand Bidder as a single entity can also showcase multiple projects encompassing one of the components of the DCG project to be cumulatively considered as a similar project. Kindly confirm.</p>		
12.	492	5. Similar Projects	<p>For the purpose of this project, a similar project, wherever referred to in subsequent parts would imply a project, which encompasses all elements envisaged as part of the DCG project, i.e. it should have an element of data Centre/ disaster recovery data Centre implementation, a network implementation, and ERP based solution. However, if a bidder as a single entity may not have executed a single</p>	<p>Yes, online ERP experiences shall also be considered.</p>	<b>L&amp;T</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>project encompassing all components, at least one of the partner firms in the partnership, JV or the consortium bidding for the project must have undertaken at least one project encompassing one of the components of the DCG project. In case of a consortium, JV or a partnership, the lead bidder must mandatorily have by itself implemented or implementing an ERP intensive project.</p> <p>For the purpose of pre-qualification, please confirm that online ERP experiences shall be considered.</p>		
13.	492	5 Appendix N	<p>Lead bidder</p> <p>It is requested to consider "Lead bidder/ consortium member must have implemented or implementing an ERP intensive project"</p>	<p>Please refer to para 5 on page 492 of RFP, "In case of a consortium, JV or a partnership, the lead bidder must mandatorily have by itself implemented or implementing an ERP intensive project" may be read in conjunction with PQ Sl. 2(c) and 2(g) of Appendix-N on page 489 &amp; 490 of RFP. Further, the lead bidder must have experience of implementation of any of the ERP projects. However, in case of consortium/ JV or partnership, any member must have implemented or implementing an ERP intensive project with minimum 4000 ERP licenses</p>	<b>RailTel</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
				consisting at least one module of logistics, finance or HR for qualifying similar project definition.	
14.	492	(5) Similar Projects	In case of a consortium, JV or a partnership, <b>the lead bidder</b> must mandatorily have by itself implemented or implementing an ERP intensive project  Can "the lead bidder" be amended as "one of the bidder"		<b>BEL</b>
15.	492	Appendix N - Pre Qualification. Definition Pt5, Pg 492	5. Similar Projects - In case of a consortium, JV or a partnership, the lead bidder must mandatorily have by itself implemented or implementing an ERP intensive Project.  Request ERP Experience of a Consortium Partner to be allowed. This clause will restrict the Bidders. We have implemented many Data Center Projects for Indian Navy, but with ERP experience of Lead Bidder clause ,STL wont be able to participate in the Bid.		<b>Sterlite</b>
16.	492	6 (a)	Appendix N DC It is requested to consider "Establishment/O&M of DC & DR ..."	Bidder to comply to the condition laid down at Para 6(a) on page no. 492 of RFP.	<b>RailTel</b>
17.	492	7	Appendix N.  Value of the project  It is understood that 125cr or 185cr is the cumulative value of DC,	As per para 6 on page 492 of RFP, both values asked as prequalification on para 2(c) Sl. (ii) on page 489, 125 Cr or 185Cr are cumulative values of projects mentioned at	<b>RailTel</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			MPLS/VSAT & ERP projects undertaken by consortium. May please clarify.	para 6(a), 6(b) and 6(C) on page 492.	
18.	492	6(a), (b) & (c)	Appendix N Value of the project  May please clarify if submission of multiple purchase orders under each category i.e., DC/DR, MPLS/VSAT, ERP is allowed to arrive at 125cr or 185cr.	Submission of multiple purchase orders under each category i.e., DC/DR, MPLS/VSAT, ERP shall not be allowed. In this regards para 6(a), 6(b) and 6(C) on page 492 relevant.	<b>RailTel</b>
19.	488	Appendix N	<b>1. Pre-Qualification Criteria.</b> Bids received from the prospective bidders would be subjected to multiple levels of evaluation. Technical proposals and Commercial bids are required to be submitted in separate sealed envelopes. Upon opening of the bids, the technical bids would be scrutinized by Technical Evaluation Committee for their compliance to the following mandatory pre-qualification criteria:-  1. Pre-Qualification Criteria. Bids received from the prospective bidders (consortium, JV or a partnership,) would be subjected to multiple levels of evaluation. In case of consortium, JV or partnership, the financial and Technical criteria at serial 1 & 2 are to be jointly fulfilled / complied by consortium , partner or JV. Technical proposals and Commercial bids are required to be submitted in separate sealed envelopes. Upon opening of the bids, the technical bids would be scrutinized by Technical Evaluation Committee for	Bidder to meet the financial criteria as per the conditions laid down at Appendix-N of thre RFP which are as per Para 3(d) of Annexure-IV to Appendix-A on page 74 of DAP-2020.	<b>Ishan</b>



Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>their compliance to the following mandatory pre-qualification criteria:- Justification: We would kindly and humbly apprise to department that please clear about the pre-qualification criteria documents, Is it required from all the partners from JV/ consortium members or only from the lead bidder?</p> <p>We would also humbly request that department should consider the prequalification criteria documents from only one member of the consortium who can fulfil the required criteria for</p>		
20.	General	Consortium	As the scope of work of the project is huge, consortium (which is formed for the subject tender purpose by signing consortium agreement) with a System Integrator and ERP vendor may be allowed to address and implement the project. Consortium up to 3 members may kindly be allowed.	The instant project has three major deliverables, namely creation of data centre, establishment of network and development of ERP application. Accordingly, in the consortium, one vendor is allowed for one deliverable. A vendor for civil construction will be allowed additionally for the purpose of making consortium. Considering the above facts, maximum members for formation of consortium to be limited to 04.	<b>ITI</b>
21.	General	General	<p>General Query</p> <p>Consortium/JV is allowed in the RFP.</p>	The instant project has three major deliverables, namely creation of data centre, establishment of	<b>Deloitte</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			Request to kindly confirm the number of member allowed in consortium/JV.	network and development of ERP application. Accordingly, in the consortium, one vendor is allowed for one deliverable. A vendor for civil construction will be allowed additionally for the purpose of making consortium. Considering the above facts, maximum members for formation of consortium to be limited to 04.	
22.	Pg 254 /OEM Qualification Requirements/ 97	OEM Qualification requirements. Data Centre, DR Data Centre and Zero- Touch ROBO OEM components of Hardware, Hyper-Converged Appliances for ROBO, Virtual NGFW, Backup software, SDDC software, SD-WAN should have been mentioned in latest Gartner Magic Quadrant/ Forrester Wave Reports in respective product category.	Kindly Amend As : OEM Qualification requirements. Data Centre, DR Data Centre and Zero- Touch ROBO OEM components of Hardware, Hyper-Converged Appliances for ROBO, Virtual NGFW, Backup software, SDDC software, SD-WAN should have been mentioned in latest Gartner Magic Quadrant/ Gartner MMDC Research Report / Forrester Wave Reports in respective product category.	Para 97 on page 254 of RFP may be read as for "SDWAN" read "WAN SWITCH" and  'Data Center..... Gartner Magic Quadrant/ Forrester Wave Reports or relevant Indian certifications/ reports such as TEC/ TSEC, STQC, BIS or their accredited lab reports in respective product category'.	<b>TCIL</b>
23.	13/ 14(b)	The Bidder agrees to provide existing NATO Stock Numbers (NSNs) of OEM for each item supplied under the contract as per part list (including MRLS). In case, the NSNs are not available,	This point is not relevant for IT products. Please remove this clause or exclude IT products from the purview of this clause.	The bidder has to provide either of the codification methods mentioned in ibid para. However, as per para 14(b) on page 13 bidder can provide Type IV codification	<b>HPE</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
		the bidder agrees to codify using basic technical characteristics as required for codification in consultation with MoD/Directorate of Standardisation. In case of IPR issues, codification will be undertaken as Type IV codification (where only the manufacturer details and part number are to be provided).		(where only the manufacturer details and part number are to be provided).	
24.	Page no. 13, 14(b). Codification.	The Bidder agrees to provide existing NATO Stock Numbers (NSNs) of OEM for each item supplied under the contract as per part list (including MRLS). In case, the NSNs are not available, the bidder agrees to codify using basic technical characteristics as required for codification in consultation with MoD/Directorate of Standardisation. In case of IPR issues, codification will be undertaken as Type IV codification (where only the manufacturer details and part number are to be provided).	This point is not relevant for IT products. Please remove this clause or exclude IT products from the purview of this clause.	The bidder to provide either of the codification methods mentioned in ibid para. However, as per para 14(b) on page 13 bidder can provide Type IV codification (where only the manufacturer details and part number are to be provided).	<b>Mahindra Defence</b>
25.	13/ 14(a)	Even after the said mandatory period, the Bidder would be bound to give at least two years notice to the Government of India prior to closing the production line so as to enable a Lifetime Buy of all spares	IT hardware OEMs provide 6 months of notification before putting the device on End-Of-Sale, so please relax the period to six months.	The bidder to comply to the conditions at para 14(a) at page 13 of RFP.	<b>HPE</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
		before closure of the said production line.			
26.	Page no. 13, 14(a). Product Support.	Even after the said mandatory period, the Bidder would be bound to give at least two years notice to the Government of India prior to closing the production line so as to enable a Lifetime Buy of all spares before closure of the said production line.	IT hardware OEMs provide 6 months of notification before putting the device on End-Of-Sale, so please relax the period to six months.	The bidder to comply to the at para 14(a) at page 13 of RFP.	<b>Mahindra Defence</b>
27.	13	14(a). Product Support.	Even after the said mandatory period, the Bidder would be bound to give at least two years notice to the Government of India prior to closing the production line so as to enable a Lifetime Buy of all spares before closure of the said production line.  IT hardware OEMs provide 6 months of notification before putting the device on End-Of-Sale, so please relax the period to six months.	The bidder to comply to the at para 14(a) at page 13 of RFP.	<b>L&amp;T</b>
28.	14 (a) Product Support	Even after the said mandatory period, the Bidder would be bound to give at least two years notice to the Government of India prior to closing the production line so as to enable a Lifetime Buy of all spares before closure of the said production line.	Kindly revise this clause as per product support clause & not beyond that.	The bidder to comply to the at para 14(a) at page 13 of RFP.	<b>HPE</b>
29.	20/ 35.1	35.1 The Bidder/ OEM as applicable will notify the Buyer not less than two years before the closure of its production	IT hardware OEMs provide 6 months of notification before putting the device on End-Of-Sale, so please relax the period to six months.	The bidder to comply to the at para 14(a) at page 13 of RFP.	<b>HPE</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
		line about the intention to close production of equipment for provision of purchasing spare parts, before closure of the said production line.			
30.	Page no. 20, 35.1 - Active Technology Obsolescence Management.	35.1 The Bidder/ OEM as applicable will notify the Buyer not less than two years before the closure of its production line about the intention to close production of equipment for provision of purchasing spare parts, before closure of the said production line.	IT hardware OEMs provide 6 months of notification before putting the device on End-Of-Sale, so please relax the period to six months.	The bidder to comply to the at para 14(a) at page 13 of RFP.	<b>Mahindra Defence</b>
31.	13	14(b). Codification.	<p>The Bidder agrees to provide existing NATO Stock Numbers (NSNs) of OEM for each item supplied under the contract as per part list (including MRLS). In case, the NSNs are not available, the bidder agrees to codify using basic technical characteristics as required for codification in consultation with MoD/Directorate of Standardisation. In case of IPR issues, codification will be undertaken as Type IV codification (where only the manufacturer details and part number are to be provided).</p> <p>This point is not relevant for IT products. Please remove this clause or exclude IT products from the purview of this clause.</p>	<p>(a) The bidder to provide either of the codification methods mentioned in ibid para. However, as per para 14(b) on page 13 bidder can provide Type IV codification (where only the manufacturer details and part number are to be provided).</p> <p>(b) NATO stock number is a 13 digit numeric code used for identifying all the standardized material items of supply as they have been recognized by all member states of NATO.</p>	<b>L&amp;T</b>
32.	13		The bidder agrees to provide existing NATO Stock Numbers of OEM of each item supplied under the contract as per		<b>Sterlite</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			part list.  Please clarify what is meant by NATO Stock		
33.	4 (d) (vi) and (vii) Go-Live/ Project Completion	(vi) Final acceptance by ICG Team for DC, DRDC, NLDC operability, synchronisation and automation with maximum load capacity.  (vii) Acceptance of all deliverables of ERP as per the SRS and after completion of security audit by Cert-In empanelled vendor. Proving of Offline capability.	We request that the acceptance process be completed within a fixed period of 15 days from the date of submission of deliverables. If acceptance or rejection is not communicated within that time period, then the deliverable should be considered deemed accepted.	The bidder to comply to the conditions/ requirements at para 4(d) on page no. 4 of RFP.	HPE
34.	Page No. 5/ 4. Special features of the RFP.	(d) Go-Live/ Project Completion. Project will be considered as completed on fulfilment of below mentioned conditions: - (vi) Final acceptance by ICG Team for DC, DRDC, NLDC operability, synchronisation and automation with maximum load capacity.	The project completion criteria mentioned in the document states that Final acceptance by IGC team will be on maximum load capacity. DC's are designed with futuristic load bearing capacity whereas maximum load bearing capacity may not be tested at Go-Live stage. Please amend it as final acceptance by ICG Team for DC, DRDC, NLDC operability, synchronisation and automation with load capacity as per current components (hardware and software) asked in the RFP.	Bidder has to demonstrate the load capacity of data centre with the load of all components (Hardware & software) of Data Centre on day one. However, electrical load capacity of Genset may be proved with maximum scalable load.	Mahindra Defence
35.	Page no. 3 Synopsis	3. The salient aspects and timelines of the acquisition are tabulated below (d) Minimum IC Content required 45%	Minimum IC content specified in the RFP is 45%, please clarify if this is for overall average IC content for the supplied component or each item should have 45% of IC content?	IC content will be calculated as per Appendix - B to Ch-I of DAP-2020 and DAP-2020 is available in the MoD website.	Mahindra Defence

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
36.	7/ Indigenous Content	<p>For the purposes of this RFP and the acquisition contract (if any) signed by the Ministry of Defence with a successful Bidder, indigenous content shall be minimum 45% as defined under Para 1 of Appendix B to Chapter I of DAP-2020. In addition, reporting requirements for prime (main) Bidders (and for sub-contractors/ suppliers/ technology partners reporting to higher stages/ tiers) shall be as prescribed under Para 4 to 7 of Appendix B to Chapter I of DAP-2020 (or as approved by AoN according authority) . The right to audit Bidder/ sub-contractors/ suppliers/ technology partners shall vest in the Ministry of Defence as prescribed under Para 10; and aspects of delivery, certification, payments, withholding of payments and imposition of penalties shall be as prescribed under Para 11 to 15 thereof. Furthermore, Bidders will be required to submit their indigenisation plan in respect of indigenous content as stipulated in Para 4 to 7 of Appendix B to Chapter I and Para 39 of Chapter II of DAP 2020. The DAP 2020 is available</p>	<p>In respect of verification/ audit under Para 10 of DAP-2020, we request that such verification/audit be conducted after providing at least 15 days' notice and any such verification/audit be restricted to the materials/documents/facilities related to the specific project which is under verification/audit. In the event that any third party is being used for verification/audit, such third party has to be bound by confidentiality while conducting the verification/audit.</p> <p>We also request that any monies to be collected for not meeting the IC requirements under Para 14 of DAP-2020 be done through recovery at the end of the contract and not withheld from payments to be made to the bidder.</p>	<p>IC content will be calculated as per Appendix - B to Ch-I of DAP-2020, which is available in open domain on MoD website.</p>	HPE

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
		at MoD, GoI website (www.mod.nic.in) for reference and free download.			
37.	21	If the equipment being offered by the Bidder has been supplied/ contracted with any organisation, public/ private in India, the details of the same may be furnished in the technical as well as commercial offers. The Bidders are required to give a written undertaking that they are not supplying the similar systems or subsystems at a price lower than that offered in the present bid to any other Ministry/Department of the Government of India and if the similar system has been supplied at a lower price, then the details regarding the cost, time of supply and quantities be included as part of the commercial offer. In case of non-disclosure, if it is found at any stage that the similar system or subsystem was supplied by the Bidder to any other Ministry/ Department of the Government of India at a lower price, then that very price, will be applicable to the present case and with due allowance for elapsed time, the difference in the cost would be refunded to the Buyer, if the	Kindly delete this clause.	The bidder to comply to the conditions/ requirements at para 21 at page 14 of RFP.	<b>HPE</b>



Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
		contract has already been concluded.			
38.	21/ Fall Clause	If the equipment being offered by the Bidder has been supplied/ contracted with any organisation, public/ private in India, the details of the same may be furnished in the technical as well as commercial offers. The Bidders are required to give a written undertaking that they are not supplying the similar systems or subsystems at a price lower than that offered in the present bid to any other Ministry/Department of the Government of India and if the similar system has been supplied at a lower price, then the details regarding the cost, time of supply and quantities be included as part of the commercial offer. In case of non-disclosure, if it is found at any stage that the similar system or subsystem was supplied by the Bidder to any other Ministry/ Department of the Government of India at a lower price, then that very price, will be applicable to the present case and with due allowance for elapsed time, the difference in the cost would be refunded to the Buyer, if the	<p>We request deletion of this clause for the following reasons:</p> <ol style="list-style-type: none"> <li>1. The bidder may have provided systems or sub-systems at a lower price in other similar projects due to the size or complexity of overall solution of such project. Providing any system or sub-system at a lower rate may be detrimental to bidders commercial interests as an independent private company if a lower price has to be provided despite the same not being beneficial to the bidder.</li> <li>2. There are various factors that determine quoting of a price like newness of technology, requirements of customer, bundling of various sub-systems, multi-year commitments given by customers, etc. Comparing prices quoted in one project in the past against a present project may not be practical or reasonable on the bidder.</li> <li>3. The bidder would have quoted prices of individual sub-systems based on the entire solution being offered and not based on the prevailing marked price of such sub-systems.</li> <li>4. The bidder may not be allowed to quote the prices of other projects owing</li> </ol>	The bidder to comply to the conditions/ requirements at para 21 at page 14 of RFP. Decision will be taken as per the RFP clause and the legal terms will be discussed with the selected(L1) bidder.	<b>HPE</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
		contract has already been concluded.	to confidentiality obligations under those projects.		
39.	52/ Commercial Bid	The Commercial Offer must be firm and fixed and should be valid for at least 18 months from the last date of bid submission.	We request that the commercial bid be valid for not more than 90 days as 18 months is a larger length of time for prices to be fixed as the prices are dynamic.	The bidder to comply to the conditions/ requirements at para 52 on page 29 of RFP.	HPE
40.	59	The bids shall be unconditional and unqualified. Any condition or qualification or any other stipulation contained in the bid shall render the bid liable to rejection as a non- responsive bid.	Kindly delete this clause.	The bidder to comply to the at para 59 on page 31 of RFP.	HPE
41.	Page #35 4. Special features of the RFP	<b>(a)</b> The core IT infrastructure being envisaged under this RFP is required to integrate and subsume the existing IT infrastructure in ICG. The functional requirements and implementation of the private cloud for ICG will be fully integrated with the supplied and existing hardware/ software i.e., integration with manager of the hypervisor, Software Defined Network and storage, etc. The CMP (Cloud Management Platform) will be integrated with the existing Directory Service software and will create business group as per the requirements given by ICG. Details of the integration	Data-migration i.e. which application data, data-size etc.  Which Private Cloud Platform/Solution required.  Whcih SDN Platform/Solution required	Details of existing hardware and software has been given on Annx-I & Annx-II to Appendix A on page 399 to 401 of RFP.	HPE

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
		<p>requirements are placed at Annexure I to Appendix A to this RFP.</p> <p><b>3.9 Integration and Migration of Data.</b> Vendor should implement the private cloud for buyer and implement the functional requirements fully with the supplied and existing hardware/ software (Annexure I &amp; II ) i.e., integration with manager of the hypervisor, Software Defined Network and storage, etc. Migration of data in the new system is responsibility of the bidder. ICG along with bidder will jointly decide on what data will be migrated and will take the responsibility of collecting and making the data available in digitized form as per the format suggested by the bidder. A detailed plan for data migration is expected from the bidder during the initial stages of the project, which will include data to be migrated, templates for upload of data and data collection/ digitization/ migration timelines.</p>			
42.	Page #12 11. Preservation (as applicable)	The hardware supplied as part of the core IT infrastructure & ERP Package are to be kept in safe custody post-delivery/ JRI/	Is the Safe Custody will be provided by customer or Bidder to arrange.	Please refer conditions at Para 11 on page 12 of RFP, Preservation is the responsibility of the bidder.	<b>HPE</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
		(to be as per delivery schedule at Para 9 until their installation and commissioning)			
43.	12	11. Preservation (as applicable)	<p>The hardware supplied as part of the core IT infrastructure &amp; ERP Package are to be kept in safe custody post-delivery/ JRI/ (to be as per delivery schedule at Para 9) until their Installation and Commissioning.</p> <p>The hardware supplied as part of the core IT infrastructure &amp; ERP Package are to be kept in safe custody post-delivery/JRI/ (to be as per delivery schedule at Para 9) until their Installation and Commissioning. Space for supplied hardware shall be provided to the bidder at the consignee location by the customer.</p>		L&T
44.	Page#46 10. Installation and Support	10.1. Installation support for all related software, hardware, networking, storage configuration including latest Windows Active Directory, Virtualization, Live migration of VM, Clustering support, Application Virtualization Clustering, Backup, Archival & Restoration and User/ Administrator setup	Count and details of existing Live VMs, Clusters, Backups, AD, App/DB, Archival etc	Details of existing hardware and software has been given on Annx-I & Annx-II to Appendix A on page 399 to 401 of RFP.	HPE
45.	Page#44 INCOTERMS for Delivery	1.1.1 The delivery of goods will be based on Free on Road (FOR) to Data Centre, Disaster Recovery Data Centre, District Headquarters and respective sites for network components	The requisite Road-permit /Way-Bill requirement, if any, to be fulfilled by customer	Requisite certificate will be provided by ICG as per the Appendix H on page 442 of RFP.	HPE

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
		under intimation to Coast Guard Store Depot, Mumbai. Thereafter the equipment would be installed and commissioned at designated ICG locations in India.			
46.	Page No.11 PART I - GENERAL REQUIREMENTS	11. Preservation (as applicable). The hardware supplied as part of the core IT infrastructure & ERP Package are to be kept in safe custody post-delivery/ JRI/ (to be as per delivery schedule at Para 9 until their installation and commissioning. In case, JRI necessitates unpacking to the extent that the preserved life of the deliverables is affected, Bidder is to undertake re-packing to restore the preserved life until the final installation/ commissioning at his own cost. In cases of any delay in STW/ installation /integration trials/commissioning, attributable to the Buyer, the deliverables are to be re-preserved by the Bidder against payment of de-preservation/ re-preservation charges as per price quoted in the Price Bid. To facilitate this, the cost of in-storage/ in-situ de-preservation/ re-preservation, as applicable, is to be indicated	At bidding stage, it is not possible to assume the delay from buyer side so it is not viable to take extra charges for de-preservation / re-preservation. We request to remove this clause from bidder's scope.  There should not be any penalty on bidder in such cases.	The bidder to comply to the conditions/ requirements at para 11 on page 12 of RFP.	<b>Mahindra Defence</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
		<p>in the Price Bid. This cost quoted by the Bidders at SI (I) of Price bid format at Appendix 'J' would be counted towards determination of L1 and will be paid as per the price quoted if the service is utilized for extending the preserved life. In the cases where installation and trials is part of the Contract, the warranty will commence from the date of successful completion of go-live. In cases where the delay for installation, trials and commissioning is not attributable to the Bidder, payment terms for the stage related to installation and commissioning will be in accordance with Annexure V to Appendix H.</p>			
47.	Page No.12 PART I - GENERAL REQUIREMENTS	<p>12. The deliverables supplied shall carry a warranty for 24 months. Commencement of warranty will be from the date of acceptance/ go-live, whichever is later. Warranty Clause is given at Appendix C to this RFP. The warranty of 24 months will comprise the Civil Infrastructure, Core IT infrastructure (functional Data Centre, functional Disaster recovery Data Centre, functional Near Line Data Centre, operational network</p>	<p>As per the timelines mentioned in the RFP, supply of hardware has to start from T0 +6 months and it will go till T0+12 months, The final Go-Live mentioned in T0+24 months. The warranty of any hardware / software triggers once the item is purchased and supplied to the purchaser. Hence it is requested to consider the warranty to be starting from T0+12 months or date of supply of the hardware / software whichever is earlier.</p>	<p>Commencement of warranty will be from the date of acceptance/ go-live, whichever is later. Bidder needs to factor the same accordingly</p>	<b>Mahindra Defence</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
		<p>and hardware installed on-board ships) and ERP Applications including all associated hardware/ software (including licenses and associated Annual Technical Support), goods/ stores supplied under the contract and each component used in the manufacture thereof shall be free from all types of defects/ failures post final acceptance of the DCG project or go live, whichever is later. The Seller also warrants that the civil infrastructure supplied/ delivered as part of the project would also remain free of any structural/ manufacturing defects during the period of warranty.</p>			
48.	Page No.17 PART II - TECHNICAL REQUIREMENTS 30 Technical Details	<p>31. The technical offer should have a separate detachable compliance table as per format given at Appendix B to this RFP stating specific answers to all the parameters as listed at Appendix A to this RFP. It is mandatory to append answers to all the parameters listed in Appendix A to this RFP. Four copies of the Technical Proposal should be submitted (along with one soft copy), however only one copy of the commercial proposal is required (Copy of</p>	<p>We request to make the complete bidding process online, with no physical submission of any technical or commercial offer (except ink signed documents, EMD, Tender fees etc.)</p>	<p>RFP conditions are as per extant provisions of DAP-2020. Hence, Bidder is requested to follow the RFP conditions.</p>	<b>Mahindra Defence</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
		commercial offer should be annotated with name of project, bidder details & validity period/ date of quote).			
49.	Page no. 465 Appendix J EVALUATION CRITERIA AND PRICE BID FORMAT	1.2. The Commercial bids of only those bidders who qualify in the TEC will be opened. The L-1 bidder would be determined by Contract Negotiation Committee (CNC).	Please clarify if L1 cost will be arrived with GST or without GST.	Lowest (L1) cost will be arrived IAW para 1.2.2.2 of Appendix N to schedule I to Chapter II of DAP - 2020., which excludes taxes and duties.	<b>Mahindra Defence</b>
50.	Section-15/ Page 50	Different layouts	All layouts given in the RFP are not clear and readable, request to provide all clear layouts (preferably CAD drawings).	All layouts published in RFP are indicative design layouts. Bidder needs to provide the layout of DC, DRDC and NLDC along with the technical proposal.	<b>Mahindra Defence</b>
51.	Page 3,4.Special features of RFP (b) Param ,Yatra		If the mentioned existing application are migrated and becomes part of the ERP scope there will be additional users and additional functional process. Details of the application are also mentioned in page 401.Request clarification.	Application will not be migrated; it will be integrated with the ERP solution. Para 240 on page 396 is relevant for the licensing requirement.	<b>Mahindra Defence</b>
52.		Generic	Please make two different RFPs for Civil and IT related works	It is a turnkey project, Bidder to comply with RFP conditions.	<b>ECIL</b>
53.		Generic	Milestones doesn't specify about Software installations, SOC and NOC	The bidder to comply to the conditions/ requirements at para 44 on page 22 of RFP.	<b>ECIL</b>
54.	446	6. Liquidated Damages	In the event of the Bidder's failure to submit the Documents, supply the stores/ goods, perform services, conduct trials, installation of equipment, training and MET as per schedule specified in this contract, the BUYER may, at his discretion withhold	The bidder to comply to the conditions/ requirements at para 6 on page 446 of RFP.	<b>L&amp;T</b>



Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>cost of the specific lot/batch or 1% of the Project cost, whichever is higher, until the completion of the contract.</p> <p>In the event of the Bidder's failure to submit the Documents, supply the stores/ goods, perform services, conduct trials, installation of equipment, training and MET as per schedule specified in this contract, the BUYER may, at his discretion withhold cost of the specific lot/batch or 1% of the the Project cost undelivered portion of the CAPEX Value, whichever is higher, until the completion of the contract.</p>		
55.	446/Appendix H (Refers to Para 51 of RFP)	Appendix H (Refers to Para 51 of RFP)	<p><b><u>Kindly amend the below clause as:</u></b></p> <p>6. Liquidated Damages (LD). In the event of the Bidder's failure <b><u>for reasons solely and entirely attributable to</u></b> it to submit the Documents, supply the stores/ goods, perform services, conduct trials, Installation of equipment, training and MET as per schedule specified in this contract, the BUYER may, at his discretion withhold cost of the specific lot/batch <del>or 1% of the Project cost, whichever is higher,</del> until the <b><u>supply of such specific lot/batch</u></b> <del>completion of the contract.</del></p> <p>The BUYER may also deduct from the SELLER as agreed, liquidated damages to the sum of 1.5/100 of the delay percentage (Delay percentage = (Period of Delay in Delivery In Weeks) x 100</p>	The bidder to comply to the conditions/ requirements at para 6 on page 446 of RFP.	TCS

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>/(Delivery Period In weeks as per contract)} of the Base Contract Price of the delayed/undelivered stows/ services mentioned above for every week of delay or part of a week, subject to the maximum value of the liquidated Damages being not higher than 105% of the contract price of the value of delayed stores/ services (Any extension given by the Buyer for delay attributable to Buyer or Force Majeure Clause to be factored in delivery period).</p>		
56.	11	8. Year of Production	<p>Deliverables [platforms (including major equipment) /equipment/ systems] supplied under the contract should be of latest manufacture i.e manufactured after the date of contract with unused components/ assemblies/ sub-assemblies conforming to the current production standard and should have 100% of the defined line (other than permitted running hours during assembly/acceptance trials) at the time of delivery. Deviations if any, should be clearly brought out by the bidder in the Technical Proposal.</p> <p>Deliverables [platforms (including major equipment) /equipment/ systems] supplied under the contract should be of latest manufacture i.e manufactured within 6 months prior to or after the date of contract with unused components/ assemblies/ sub-assemblies conforming to the current</p>	<p>The bidder to comply to the conditions/ requirements at para 8 on page 11 of RFP to be complied</p>	<b>L&amp;T</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			production standard and should have 100% of the defined line (other than permitted running hours during assembly/acceptance trials) at the time of delivery. Deviations if any, should be clearly brought out by the bidder in the Technical Proposal.		
57.	General, Annexure IV to Appendix H (Refers to Para 8 of this Appendix)	Annexure IV to Appendix H (Refers to Para 8 of this Appendix)	2. Please note that notwithstanding the grant of this extension in terms of Cause (fill In clause number) of the subject contract an amount equivalent to % (___percent) of the delivered price of the delayed goods for each week of delay or part thereof (subject to the ceiling as provided in the aforesaid clause) beyond the original contract delivery date/the last unconditionally re-fixed delivery date (as & if applicable), viz., (fill In date) will be recovered from you as liquidated damages <b><u>provide the delay is for reasons solely attributable to the Supplier.</u></b> You may now tender the Stores for inspection [balance of the Stores] in terms of this letter. Stores If any already tendered by you for Inspection but not Inspected will be now Inspected accordingly.	The bidder to comply to the conditions/ requirements at Appendix H and para 2 at page 454 of RFP.	<b>TCS</b>
58.	446	6. liquidated Damages (LD}	subject to the maximum value of the Liquidated Damages being not higher than 10% of the contract price of the value of delayed stores/ services  We request that the Liquidated damages (LD) should be independent of each package and should not be based	The bidder to comply to the conditions/ requirements at para 6 on page 446 of RFP.	<b>Deloitte</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>on the Total Contract price; i.e if delay occurs in data Centre built-up then limit of 10% of LD should be applicable only on the Data centre total cost.</p> <p>We also request to lower the percentage of LD i.e instead of 10% LD, kindly lower it to 3% LD for each package</p>		
59.	3,4/ Section 4	Special features of the ERP	<p>A. What is the current organization structure?</p> <p>B. Details of the existing legacy system landscape/architecture required.</p>	<p>1. Organisation structure will be shared during the preparation of SRS. However, high level organisation structure is available on ICG website.</p> <p>2. Details of legacy hardware and software is placed at Annexure I &amp; Annexure II respectively to appendix A of RFP.</p>	<b>TCS</b>
60.	4/section b		Further details of ICG middleware platform (Simha) - ASHA, Param, Brass is needed. Is ICG open leverage the existing middleware platforms provided by vendor?	<p>Details of existing software and technology stack has been given on Annx-II to Appendix A on page 401 of RFP.</p> <p>Yes</p>	<b>TCS</b>
61.	Page #35 4. Special features of the RFP	<b>(a)</b> The core IT infrastructure being envisaged under this RFP is required to integrate and subsume the existing IT infrastructure in ICG. The functional requirements and implementation of the private cloud for ICG will be fully integrated with the supplied	<p>Data-migration i.e. which application data, data-size etc.</p> <p>Which Private Cloud Platform/Solution required.</p> <p>Which SDN Platform/Solution required</p>	<p>details of existing hardware and software has been given on Annx-I &amp; Annx-II to Appendix A on page 399 to 401 of RFP.</p>	<b>HPE</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
		<p>and existing hardware/ software i.e., integration with manager of the hypervisor, Software Defined Network and storage, etc. The CMP (Cloud Management Platform) will be integrated with the existing Directory Service software and will create business group as per the requirements given by ICG. Details of the integration requirements are placed at Annexure I to Appendix A to this RFP.</p> <p><b>3.9 Integration and Migration of Data.</b> Vendor should implement the private cloud for buyer and implement the functional requirements fully with the supplied and existing hardware/ software (Annexure I &amp; II ) i.e., integration with manager of the hypervisor, Software Defined Network and storage, etc. Migration of data in the new system is responsibility of the bidder. ICG along with bidder will jointly decide on what data will be migrated and will take the responsibility of collecting and making the data available in digitized form as per the format suggested by the bidder. A detailed plan for</p>			

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
		data migration is expected from the bidder during the initial stages of the project, which will include data to be migrated, templates for upload of data and data collection/digitization/migration timelines.			
62.	5/ section 4 d vii and 336, Section 178		Offline capabilities - What is the extend of time gap expected for offline ships to connect with the main base server?	Extend of time gap for the offline ships to connect the main base server depends on the operational deployment of the ship. Same cannot be disclose at this juncture.	TCS
63.	5, 4. Special features of the RFP.	(viii) Submit all licenses and codes In respect of ERP SAFAL and solutions	Please clarify, is the OEM providing the ERP for SAFAL will have to submit the entire code or only the code which is being customized or configured for this implementation has to be submitted?	Bidder to submit the customised or configured code.	TCS
64.	10/PART I- GENERAL REQUIREMENTS	PART I- GENERAL REQUIREMENTS	<b><u>Kindly amend the below clause as:</u></b> 4. Confidentiality of Information. No party shall disclose any information to any Third Party' concerning the matters under this RFP generally. In particular, any Information Identified as 'Proprietary In nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party. This clause shall apply to the sub-contractors, consultants, advisors or the employees engaged by a party with equal force. The bidder and buyer have to sign a non-disclosure	The bidder to comply to the conditions/ requirements at para 4 on page 10 of RFP.	TCS

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			agreement as per format placed at Appendix M to RFP <b><u>read with the suggestions of bidder in such format.</u></b>		
65.	12/PART I- GENERAL REQUIREMENTS	PART I- GENERAL REQUIREMENTS	<p>Kindly amend the below clause as:</p> <p>12. The deliverables supplied shall carry a warranty' for 24 months. Commencement of warranty will be from the date of acceptance/ <del>go live,</del> <del>whichever is later.</del> Warranty Cause is given at Appendix C to this RFP. The warranty of 24months will comprise the Civil Infrastructure, Core IT Infrastructure (functional Data Centre, functional Disaster recovery Dab Centre, functional Near Line Data Centre, operational network and hardware installed on-board ships) and ERP Applications including all associated hardware/ software (including licenses and associated Annual Technical Support), goods/ stores supplied under the contract and each component used in the manufacture there shall be free from all types of defects/ failures post final acceptance of the DCG project or go live, whichever is later. The Seller also warrants that the civil infrastructure supplied/ delivered as part of the project would also remain free of any structural/ manufacturing defects during the period of warranty.</p> <p>SELLER shall have no liability in the case of breach of the warranties under the</p>	The bidder to comply to the conditions/ requirements at para 12 on page 12 of RFP.	TCS

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>Contract results from” (i) use of the deliverables on any environment (hardware or software) other than the environment recommended or approved by SELLER, (ii) the combination, operation, or use of some or all of the deliverables with information, software, specifications, instructions, data, or materials not approved by SELLER or substantial compliance with the specific requirements or specifications provided by BUYER in connection with the preparation of the deliverables; (iii) the deliverables having been tampered with, altered or modified by BUYER without the written permission of SELLER, (iv) use of the deliverables otherwise than in terms of the relevant documentation, (v) use of or incorporation into the deliverables any items, material or data made available by the BUYER or compliance with the specific requirements or specifications of InBev, (vi) items normally consumed in operation, or (vii) defects arising from any wear and tear originating from the normal operation in conformity with the specifications.</p> <p>Except as set forth in Section XX, Seller makes no warranties to Buyer, express or implied, with respect to any Services or Deliverables provided hereunder, including, without limitation, any implied warranties of merchantability</p>		



Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			or fitness for a particular purpose. All such other warranties are hereby disclaimed by the Seller.		
66.	14/PART I- GENERAL REQUIREMENTS	PART I- GENERAL REQUIREMENTS	<p><b>Kindly amend the below clause as:</b></p> <p>21. Fall Clause. If the equipment being offered by the Bidder has been supplied/contracted with any <b>similarly placed</b> organisation, public/ private In India, <b>in the last three (3) months</b>, the details of the same maybe furnished in the technical as well as commercial offers. The Bidders are required to give a written undertaking that they are not supplying the similar systems or subsystems <b>in similar volume</b> at a price lower than that offered in the present bid to any other Ministry Department of the Government of India <b>in the last three (3) months</b> and If the similar system in <b>similar volume</b> has been supplied at a lower price <b>in the last three (3) months</b>, then the details regarding the cost, time of supply and quantities be included as part of the commercial offer. In case of non-disclosure, if it is found at any stage that <b>in the last three (3) months</b> the similar system or subsystem <b>in similar volume</b> was supplied by the Bidder to any other: Ministry/ Department of the Government of India at a lower price, then that very price, will be applicable to the present case and with due allowance for elapsed time, the difference In the cost would be</p>	The bidder to comply to the conditions/ requirements at para 21 on page 14 of RFP.	TCS

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			refunded to the Buyer, if the contract has already been concluded		
67.	22/Section-44, Clause 44.7/	Monitoring of Project Based on Contractual Milestones	<b>Existing Clause-</b> Submission of list of clearances to be obtained by ICG. Pls confirm that all the site related clearance from Govt. agencies/ organizations will be ICG scope is it.	Permission should be obtained by SI. Documents/ certificate, if required, will be provided by ICG.	<b>TCS</b>
68.	Section-44, Clause 44.9/ page no. 23	Monitoring of Project Based on Contractual Milestones	<b>Existing Clause-</b> Submission of application and documents for LEEDS certification for Green Building Norms. Pls amend this Clause as IGBC certifications required instead of LEEDS. Because for Data centre Green Building only IGBC certification required.	The bidder to comply to the conditions/ requirements at para 44 on page 23 are to be complied	
69.	23/Section-44, Clause 44.9/	Monitoring of Project Based on Contractual Milestones	<b>Existing Clause-</b> Submission of application and documents for LEEDS certification for Green Building Norms. Pls amend this Clause as IGBC certifications required instead of LEEDS. Because for Data centre Green Building only IGBC certification required.		<b>TCS</b>
70.	26/44. onirinf B sed n Con 1 Milestones applicable).	Completion of Installations and Commissioning of all IT Core IT infra hardware (DC, DRDC, NLDR, Balance ROBO racks for ships and ERP production hardware).	1. Please provide the city names of the DC, DR and NLDR. 2. Please specify the city names where the ROBO racks for ships are to be provided.	1. ICG <b>IDC</b> location shall be at - Mahipalpur, Delhi. <b>DRDC</b> - Mangalore & <b>NLDC</b> - Noida/NCR. 2. Details of ROBO rack delivery location will be shared along with pre-bid query reply.	<b>TCS</b>
71.	31/PART III BID EVALUATION AND ACCEPTANCE CRITERIA	PART III BID EVALUATION AND ACCEPTANCE CRITERIA	<b>Kindly delete the below clause as:</b> <del>59. The bids shall be unconditional and unqualified: Any condition or qualification or any other stipulation contained in the bid shall render the bid liable to rejection as anon responsive bid</del>	Clause is as per DAP-2020. Bidder has to comply RFP requirement.	<b>TCS</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
72.	33/3.1. Ralabilltv	3.1.5. The Phase wise minimum required capacities for the proposed DC shall be • as follows:-	Please specify the start and end of Phase 1 and Phase 2	Phase 1 will commence with signing of the contract for the duration of 24 months. Phase 2 is beyond the scope of this tender/RFP.	TCS
73.	442/Appendix H (Refers to Para 51 of RFP)	Appendix H (Refers to Para 51 of RFP)	1.3.1. Total Contract Price. The Total Contract Price will be the final price negotiated by CNC <del>including</del> <b>excluding</b> taxes and duties applicable at the time of signing of Contract.	The bidder to comply to the conditions/ requirements at 1.3.1 of Appendix-H on page 442 of RFP.	TCS
74.	444/Appendix H (Refers to Para 51 of RFP)	Appendix H (Refers to Para 51 of RFP)	<b>Kindly amend the below clause as:</b>  1.3.12. payment of Taxes and Duties. Payment of taxes, duties and statutory levies will be made on submission of requisite documentary proof to Paying authority. Reimbursement of taxes and duties will be <del>as per rates and amounts indicated in the commercial bid/contract or as per actuals is whichever is lower.</del>	The clause is as per para 1.5.9 on page 263 of DAP-2020. The conditions at 1.3.12 of Appendix-H on page 444 of RFP to be complied	TCS
75.	446/1.3 contract Price and Requirement of Bank Guarantees	1.3.12. payment of Taxes and Duties. Payment of taxes, duties and statutory levies will be made on submission of requisite documentary proof to Paying authority. Reimbursement of taxes and duties will be as per rates and amounts indicated in the commercial bid/contract or as per actuals whichever is lower.	Pls accept that payment of Taxes and Duties and Statutory levies will be made as per the rates and amounts charges at actuals at the time of invoicing.	The bidder to comply to the conditions/ requirements of RFP which are in line with Para 1.5.9 on page 263 of DAP-2020. Accordingly, The conditions at 1.3.12 of Appendix-H on page 444 of RFP to be complied.	TCS

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
76.	448/Commercial Clauses	8.Denial Clause - In the denial clause, any increase in statutory duties and/ or upward rise In prices due to the Price Variation Cause (PVC) and or any adverse fluctuation in foreign exchange are to borne by the Seller during the extended delivery period, while the Buyer reserves his right to get any benefit of downward revisions in statutory duties, PVC and foreign exchange rate. Thus, PVC, other variations and foreign exchange clauses operate only during the original delivery period.	The clause is one sided and must be modified to protect the interest of both buyer and seller. In case Buyer is taking the benefit of downward revisions of statutory duties/PVC/Foreign exchange rate, then buyer should also bear the upward revision of the same.	The bidder to comply to the conditions/ requirements at para 8 on page 446 of RFP.	TCS
77.	471/Appendix K (Refers to Para 56 of RFP) STANDARD CONDITIONS OF RFP	Appendix K (Refers to Para 56 of RFP) STANDARD CONDITIONS OF RFP	<b>Kindly amend the below clause as:</b> 5.1 Force majeure shall mean fires, floods, natural disasters, <b>pandemic, epidemic</b> or other acts such as war, turmoil, strikes, sabotage, explosions, beyond the control of either party. 5.2 Provided the acts of <del>The Government or</del> any state parties of the seller which may affect the discharge of the Seller's obligation under the contract shall not be treated as Force Majeure	The bidder to comply to the conditions/ requirements at Para 5 on page 471 of RFP which comply to the extant clause on subject of DAP-2020.	TCS
78.	473/Appendix K (Refers to Para 56 of RFP) STANDARD CONDITIONS OF RFP	Appendix K (Refers to Para 56 of RFP) STANDARD CONDITIONS OF RFP	<b>Kindly delete the below clause as:</b> <del>7.7.6 At the discretion of the Buyer, the Seller shall be liable for action as per extant policy on Putting on Hold, Suspension and Debarment of Entitles</del>	The bidder to comply to the conditions/ requirements at para 7 on page 473 of RFP to be complied.The clause complies to the provisions of DAP-2020.	TCS
79.	479/Annexure to Appendix K	Annexure to Appendix K (Refers to Para 20 of RFP and para 7.9	<b>Kindly amend the below clause as:</b>	The bidder to comply to the conditions/ requirements at	TCS

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
	(Refers to Para 20 of RFP and para 7.9 of this Appendix) PRE-CONTRACT INTEGRITY PACT	of this Appendix) PRE-CONTRACT INTEGRITY PACT	8.6 Validity of EMD. The EMD will be valid for <del>eighteen</del> 12 months or till signing of contract, whichever is <b>earlier</b> <del>later</del> . The EMD shall be extended from time to time as required by the Buyer and agreed by the Bidder. No interest shall be payable by the Buyer to the Bidder(s) on the EMD for the period of its currency. For unsuccessful bidders EMD will be returned on declaration of successful bidder(s).	para 8 on page 479 of RFP to be complied. The clause is as per oprovisions of DAP-2020.	
80.	479/Annexure to Appendix K (Refers to Para 20 of RFP and para 7.9 of this Appendix) PRE-CONTRACT INTEGRITY PACT	Annexure to Appendix K (Refers to Para 20 of RFP and para 7.9 of this Appendix) PRE-CONTRACT INTEGRITY PACT	<b>Kindly amend the below clause as:</b>  8.7.2.2. Fails or refuses to accept/ execute the contract <b>containing mutually agreed terms</b>	The bidder to comply to the conditions/ requirements at para 8 on page 479 of RFP.	TCS
81.	480/Annexure to Appendix K (Refers to Para 20 of RFP and para 7.9 of this Appendix) PRE-CONTRACT INTEGRITY PACT	Annexure to Appendix K (Refers to Para 20 of RFP and para 7.9 of this Appendix) PRE-CONTRACT INTEGRITY PACT	<b>Kindly delete the below clause as:</b>  <del>10.1.4 To recover all sums already paid by the Buyer in case of an Indian Bidder with Interest thereon at 2% higher than the prevailing Base Rate of 5.81 and in case of a Bidder from a country other than India with Interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the Bidder from the Buyer in connection with any other contract for any other defence stores, such outstanding payment could also be utilised to recover the aforesaid sum and Interest.</del>	The bidder to comply to the conditions/ requirements at para 10 on page 480 of RFP.	TCS

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
82.	480/Annexure to Appendix K (Refers to Para 20 of RFP and para 7.9 of this Appendix) PRE-CONTRACT INTEGRITY PACT	Annexure to Appendix K (Refers to Para 20 of RFP and para 7.9 of this Appendix) PRE-CONTRACT INTEGRITY PACT	<p><b>Kindly delete the below clause as:</b></p> <p><del>10.1.6 To cancel all or any other Contracts with the Bidder.</del></p> <p><del>10.1.7 To Put on Hold or Suspend or Debar the bidder as per the extant policy.</del></p>	The bidder to comply to the conditions/ requirements at para 10 on page 480 of RFP.	TCS
83.	480/Annexure to Appendix K (Refers to Para 20 of RFP and para 7.9 of this Appendix) PRE-CONTRACT INTEGRITY PACT	Annexure to Appendix K (Refers to Para 20 of RFP and para 7.9 of this Appendix) PRE-CONTRACT INTEGRITY PACT	<p><b>Kindly amend the below clause as:</b></p> <p>10. 1.9 If the Bidder or any employee of the Bidder or any person acting on behalf of the Bidder, <b>who is directly engaged or involved in preparation of the bid or the engagement resulting from this Bid</b>, either directly or indirectly, is closely related to any of the officers of the Buyer, or alternatively, if <b>to Bidder's knowledge</b> any close relative Of an officer of the Buyer has financial interest/stake in the Bidder's firm, the same shall be, disclosed by the Bidder at the time of filing of tender. Any failure to disclose the Interest Involved shall entitle the Buyer to debar the Bidder from the process or rescind the contract without payment of any compensation to the Bidder. The term close relative' for this purpose would mean spouse whether residing with the Government servant or not, but not include a spouse separated from the Government servant by a decree or order of a competent court; son or daughter or step son or step daughter and wholly dependent upon</p>	Bidder to comply with RFP conditions. The clause is as per provisions at para 10.1(ix) on page 307 on DAP-2020.	TCS

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			Government servant, but does not Include a child or step child who is no longer in any way dependent upon the Government servant or of whose custody the Government servant has been deprived of by or under any law; any other person related, whether by blood or marriage, to the Government servant or to the Government servants wife or husband and wholly dependent upon Government servant		
84.	481/Annexure to Appendix K (Refers to Para 20 of RFP and para 7.9 of this Appendix) PRE-CONTRACT INTEGRITY PACT	Annexure to Appendix K (Refers to Para 20 of RFP and para 7.9 of this Appendix) PRE-CONTRACT INTEGRITY PACT	<p><b>Kindly amend the below clause as:</b></p> <p>11. Fall Clause 11.1 The Bidder undertakes that he has not supplied <b><u>in the last three (3) months / as on the date of its present bid</u></b> Is not supplying the similar products, systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/ Department of the Government of India and if it Is found at any age that the similar system or sub-system <b><u>in similar volume</u></b> was supplied by the Bidder to any other Ministry/ Department of the Government of India at a lower price <b><u>in the last three (3) months of its present bid</u></b>, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the Bidder to the Buyer, even If the contract has already been concluded. 11.2 The Bidder shall strive to accord the most favoured customer treatment to the</p>	The bidder to comply to the conditions/ requirements at para 11 on page 481 of RFP.	TCS

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			Buyer <b>vis a vis its other similarly placed customers</b> In respect of all matters pertaining to the present case		
85.	483/Annexure to Appendix K (Refers to Para 20 of RFP and para 7.9 of this Appendix) PRE-CONTRACT INTEGRITY PACT	Annexure to Appendix K (Refers to Para 20 of RFP and para 7.9 of this Appendix) PRE-CONTRACT INTEGRITY PACT	<p><b>Kindly amend the below clause as:</b></p> <p>16.1 The validity of this Integrity Pact shall be from date of Its signing and extend up to <u>51</u> years <b>(for bidders other than the successful bidder)</b> or the complete execution of the contract <b>(for the successful bidder)</b> to <del>the satisfaction of both the Buyer and the Bidder/Seller, whichever is later.</del></p>	The bidder to comply to the conditions/ requirements at para 16 on page 483 of RFP.	TCS
86.	484/(Refers to Para 8.1 of Pre-Contract Integrity Pact) EMD BANN GUARANTEE FORMAT	(Refers to Para 8.1 of Pre-Contract Integrity Pact) EMD BANN GUARANTEE FORMAT	<p>(2) If the Bidder having been notified of the acceptance of his tender by the Buyer during the period of Its validity.</p> <p>(a) If the Bidder fails to furnish the Performance Security for the due performance of the contract.</p> <p>(b) Fails or refuses to accept/ execute the contract <b>containing mutually agreed terms.</b></p>	The bidder to comply to the conditions/ requirements at para 2 on page 484 of RFP.	TCS
87.	486/Appendix M (Refers to Para 4 of RFP) NON DISCLOSURE AGREEMENT	Appendix M (Refers to Para 4 of RFP) NON DISCLOSURE AGREEMENT	<p>Kindly amend the below clause as:</p> <p>The provisions respecting confidentiality shall not apply to the extent, but only to the extent, that the information or document is: (i) already known to the Receiving Party free of any restriction at the time it is obtained from the Disclosing Party, (ii) subsequently learned from an independent third party free of any restriction and without breach of this provision; (iii) is or becomes publicly available through no wrongful act of the</p>	The conditions at Appendix M on page 486 of RFP are to be complied.	TCS



Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>Receiving Party or any third party; (iv) is independently developed by the Receiving Party without reference to or use of any Confidential Information of the Disclosing Party; or (v) is required to be disclosed pursuant to an applicable law, rule, regulation, government requirement or court order, or the rules of any stock exchange (provided, however, that the Receiving Party shall advise the Disclosing Party of such required disclosure promptly upon learning thereof in order to afford the Disclosing Party a reasonable opportunity to contest, limit and/or assist the Receiving Party in crafting such disclosure).</p> <p>The Agreement shall be effective from the last date of execution and shall continue for – months. Confidentiality obligations shall survive for a period of three (3) years from expiration or termination of this Agreement</p>		
88.	10,11/PART I- GENERAL REQUIREMENTS	PART I- GENERAL REQUIREMENTS	<p><b><u>Kindly amend the below clause as:</u></b></p> <p>5.1 Undertaking by Bidders. The Bidder will submit an undertaking that <b><u>to the best of their knowledge that</u></b> they are currently not banned / debarred / suspended from doing business dealings with Government of India / any other government organisation and that there is no investigation going on by MOD against them; <b><u>any of which may adversely affect performance of Bidder's obligations under the</u></b></p>	The bidder to comply to the conditions/ requirements at para 5 on page 10 and 11 of RFP.	TCS

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p><b>engagement resulting from this RFP.</b> In case of ever having been banned / debarred / suspended from doing business dealings with MoD/any other government organization, in the past, which may adversely affect performance of Bidder's obligations under the engagement resulting from this RFP, the Bidder will furnish details of such ban / debarment along with copy of government letter under which this ban/ debarment / suspension was lifted/ revoked. The Bidder shall also declare that their sub-contractor(s)/ supplier(s)/ technology partner(s) are not Suspended or Debarred by Ministry of Defence In case the subcontractor(s)/ supplier(s)/ technology partner(s) of the Bidder are Suspended or Debarred by Ministry of Defence, the Bidder shall Indicate the same with justification for participation of such sub-contractor(s)/ supplier(s)/ technology partner(s) in the procurement case.</p>		
89.	General	General	<p>Additional Provisions: Bidder suggests that the following additional clauses be added in the in the Bid-response through a corrigendum and in final contract for the engagement resulting pursuant to this RFP:</p> <p>1. Limitations of Liability</p> <p>(A) Neither party shall be liable to the</p>	<p>Bidders to comply to the conditions of the RFP. The clauses in RFP are as per the extant provisions of DAP-2020, which doesn't include limitations of liability for defence tenders.</p>	TCS

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>other for any special, indirect, incidental, consequential (including loss of profit or revenue), exemplary or punitive damages whether in contract, tort or other theories of law, even if such party has been advised of the possibility of such damages.</p> <p>(B) The total cumulative liability of either party arising from or relating to the Agreement shall not exceed the amount paid to the Seller by the Buyer under this Agreement in the twelve (12) months period immediately preceding the date such liability arose.</p> <p>(C) The Seller shall be excused and not be liable or responsible for any delay or failure to perform the services or failure of the services or a deliverable or plant under the Agreement to the extent that such delay or failure has arisen as a result of any delay or failure by Buyer or its employees or agents or third party Sellers to perform any of its duties and obligations. In the event that the Seller is delayed or prevented from performing its obligations due to such failure or delay on the part of or on behalf of Buyer, then the Seller shall be allowed an additional period of time to perform its obligations and unless otherwise agreed the additional period shall be equal to the amount of time for which the Seller is delayed or prevented from performing its obligations due to</p>		

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>such failure or delay on the part of or on behalf of Buyer . Such failures or delays shall be brought to the notice of Buyer and subject to mutual agreement (including on commercials) with Buyer, the Seller shall take such actions as may be necessary to correct or remedy the failures or delays.</p> <p>2. Intellectual Property Rights</p> <p>Subject to the other provisions contained in this Clause, the Seller agrees that all deliverables created or developed by the Seller specifically for Buyer, together with any associated copyright and other intellectual property rights, shall be the sole and exclusive property of Buyer provided all the payments due to the Seller for the deliverables rendered under this Agreement have already been paid by Buyer to the Seller. Buyer acknowledges that in performing services under this Agreement, the Seller may use Seller's proprietary materials including without limitation any software (or any part or component thereof), tools, methodology, processes, ideas, know-how and technology that are or were developed or owned by the Seller prior to or independent of the services performed hereunder or any improvements, enhancements, modifications or customization made thereto as part of</p>		

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>or in the course of performing the services hereunder, (“the Seller Pre-Existing IP”). Notwithstanding anything to the contrary contained in this Agreement, the Seller shall continue to retain all the ownership, the rights title and interests to all the Seller Pre-Existing IP and nothing contained herein shall be construed as preventing or restricting the Seller from using the Seller Pre-Existing IP in any manner. To the extent that any the Seller Pre-Existing IP or a portion thereof is incorporated or contained in a deliverable under this Agreement, the Seller hereby grants to Buyer a non-exclusive, perpetual, royalty free, fully paid up, irrevocable license, with the right to sublicense through multiple tiers, to use, copy, install, perform, display, modify and create derivative works of any such Seller Pre-Existing IP in connection with the deliverables and only as part of the deliverables in which they are incorporated or embedded. The foregoing license does not authorizes Buyer to (a) separate Seller Pre-Existing IP from the deliverable in which they are incorporated for creating a standalone product for marketing to others; (b) independently sell, lease, exchange, mortgage, pledge, license, sub license, assign or in any other way convey, transfer or alienate the Seller Pre-Existing IP in favour of any person, and/or (c) reverse compile or in</p>		

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>any other way arrive at or attempt to arrive at the source code of the Supplier Pre-Existing IP.</p> <p>All the intellectual property rights in the third party software used in providing services including those forming part of or incorporated into the deliverables shall remain with the respective third party Buyer s/ the Seller's licensor and to the extent required for the purposes specified in the Agreement Buyer shall have user rights in accordance with license agreement (EULA) as applicable for use of such software.</p> <p>Each Party shall be entitled to use in the normal course of its business and in providing same or similar services or development of similar deliverables for its other clients, the general knowledge and experience gained and retained in the unaided human memory of its personnel in the performance of the Agreement. For the purposes of clarity the Seller's shall be free to provide any services or design any deliverable(s) that perform functions same or similar to the deliverables provided under the Agreement for Buyer , for any other client of the Seller. Nothing contained herein shall relieve either party of its confidentiality obligations with respect to the proprietary and confidential information or material of the other</p>		

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>party.</p> <p>Buyer warrants that the materials provided by Buyer to Seller are duly owned or licensed by Buyer.</p> <p>3. Acceptance</p> <p>Buyer will carry out acceptance testing of deliverables (for the deliverables which are subject to acceptance procedure) as per schedule presented by the Seller in its Bid/Proposal or otherwise as per mutually agreed schedule. Buyer will prepare the Acceptance Test data along with the expected test results (consistent with the detailed specifications of the system and any change-request agreed in the documents) and keep it ready at least four (4) weeks in advance before the scheduled commencement of Acceptance Testing(s). The acceptance testing will be based on the test cases provided by Buyer. The Seller will provide support for any clarifications during the Acceptance Testing of the system. Defects if any, observed by Buyer , will be notified to the Seller in writing not later than five (5) days of delivery. The Seller will correct the defects that are a deviation from the baseline immediately following the acceptance. Buyer will confirm acceptance in writing to the Seller. Buyer shall not withhold or delay the</p>		

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>issuance of sign off or taking over certificate, if the deliverables substantially meet the specifications or on account of any minor defects which have no material effect on the functionality of the deliverables. Notwithstanding the foregoing sentence, a deliverable shall be treated as accepted by Buyer if Buyer (a) fails to provide the list of non conformities within five (5) days of delivery, (b) fails to notify the acceptance of the deliverables in terms of this clause within the period of five (5) days from delivery, or (c) starts using the deliverable in a live production environment (other than as part of agreed review and acceptance testing procedure, such as UAT).</p> <p>4. Termination</p> <p>Termination for Material Breach. In the event of a material breach of the provisions of this Agreement, the non-breaching party may terminate this Agreement, upon written notice to the breaching party if the breaching party fails to cure such breach within thirty (30) days following receipt of written notice from the nonbreaching party requiring the remedy.</p> <p>In the event of termination, Buyer shall however, be liable to pay Seller for the services rendered till the effective date</p>		



Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>of termination and reasonable termination compensation towards unrecovered investments.</p> <p>5. Payment Terms</p> <p>All fees payable to the Seller are exclusive of any GST, sales, use, value added tax, service taxes or taxes of a similar nature (including any changes to the existing taxes or incorporation of new taxes) and where such taxes are applicable, the Buyer shall be responsible to pay or reimburse the Seller the amount of such taxes. All invoices and bills will be raised by Seller as per the mutually agreed payment schedule and will become due for payment within thirty (30) days of presentation. Any invoice remaining unpaid after a period of thirty days shall be treated as a debt owed by the Buyer to the Seller and the Seller shall be, without prejudice to any other remedies that it may have in this regard, entitled to recover it as such with a monthly interest of 2%. Without prejudice to the other rights available, the Seller also reserves the right to withhold the provision of services till such time all the payments due to it have been made by the Buyer and any such withholding by the Seller shall not be treated as breach by it of the provisions of the Agreement.</p>		

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>6. Employee non-solicitation</p> <p>The Seller and Buyer each agree that during the term a Seller personnel or Buyer employee is associated with the services under the Agreement and for a period of twelve months after such person ceases to be so associated, neither the Seller nor Buyer shall, directly or indirectly, solicit for hire or knowingly hire or retain such personnel of the other party as an employee or independent contractor, except with prior written consent of the other party.</p> <p>7. Acts or omissions of Other Party</p> <p>Neither Party shall be liable for any delay or failure in the performance of its obligations under this Agreement, if and to the extent such delay or failure is caused by the actions or omissions of the other Party or other Party's agents or due to a breach of this Agreement by the other Party.</p> <p>8. Entire Agreement</p> <p>This Agreement set forth the entire understanding of the parties with respect to the subject matter hereof and thereof. This Agreement supersedes all prior or simultaneous representations, discussions, negotiations, letters, proposals, agreements and understandings between the parties hereto with</p>		

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			respect to the subject matter hereof, whether written or oral. Each party acknowledges that it has not relied on or been induced to enter into this Agreement by a representation or warranty other than those expressly set out in this Agreement. To the extent permitted by applicable law, a party is not liable to another party in contract or tort or in any other way for a representation or warranty that is not set out in this Agreement.		
90.	General	Additional Clause	Bids will be valid for 180 days from date of submission	The Bidder(s) to comply to the relevant conditions/clauses of the RFP.	TCS
91.	General	Additional Clause	All Payment will be released within 30 days from date of invoice. Delayed payments will attract 2% per month or part thereof.	The Bidder(s) to comply to the relevant conditions/clauses of the RFP.	TCS
92.	General	Additional Clause	For GST compliance, the hardware will be billed 100% with GST. However, payment can be made as per agreed payment milestones	The Bidder(s) to comply to the relevant conditions/clauses of the RFP.	TCS
93.	General	Additional Clause	Limitation of Liability clause having capping to 100% of Contract value, must be included in the RFP.	The Bidder(s) to comply to the relevant conditions/clauses of the RFP.	TCS
94.	General	Additional Clause	Overall Penalty under the contract must not exceed 10% of TCV.	The Bidder(s) to comply to the relevant conditions/clauses of the RFP.	TCS
95.	General	General	Please confirm if DCG is expecting CBT artifacts to be available on mobile devices?	No	TCS

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
96.	General	General	<p>Is there a Learning Management System (LMS) available that will be used to host the Digital / CBT Content?</p> <p>If yes:</p> <ul style="list-style-type: none"> <li>- What is the LMS product?</li> <li>- Is there a dedicated L&amp;D/LMS tech team to support various activities needed to deploy the Learning solution?</li> </ul> <p>If no, can the TCS suggest LMS platform to host Digital Content?</p>	<p>There is no such clause in the RFP, Reference not established. The Bidder(s) to comply to the relevant conditions/clauses of the RFP.</p>	TCS
97.	General	General	<p>In case of new LMS implementation, then let us know your preferable LMS? i.e. Enterprise LMS or Opensource LMS? On-premise implementation / Cloud based? More details required.</p> <p>What will be the total users and concurrent users count?</p> <p>Are there any external users/contractors accessing the learning? Do they need access to LMS?</p> <p>If yes, give us more details along with users count.</p>	<p>Reference not established.</p>	TCS
98.	General, 52.2	<p>The solution should have capability to automate the bring-up process of the entire software platform, including deployment of infrastructure VMs, creation of the management cluster, configuration of VLANs, configuration of virtual storage, virtual network, and cluster creation and provisioning.</p>	<p>Kindly amend "The solution should have capability to automate the bring-up of the service including deployment of infrastructure VMs, configuration of network and security, configuration of storage with VMs etc"</p> <p><b>[We understand that requirement is to automate the provisioning and day. 2 operations]</b></p>	<p>The Bidder(s) to comply to the relevant conditions/clauses at para 52 on page 86 of RFP.</p>	TCS

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
99.	Page 55/ 22.1.4	DR-DC server room should be able to accommodate a total of 18 Data Racks (10KW each) considering future scalability.		DRDC should accommodate 18 data rack (10 KW each). Requirement of DC data rack mentioned separately at para 13.14 on page 48 of RFP.	<b>TCS</b>
100.	4	Special features of RFP	Supply of Enterprise Database licenses as required including offline remote replication support for ICG Ships and internet zone.  At how many places or nodes , offline remote replication support is required? Also is it the Enterprise database support or the ERP support?	Offline remote replication support is required for 88 nodes. All functionality of ERP applications must be available for remote locations and it must synched with data centre when ship get connected to network.	<b>BEL</b>
101.	20	39	For JRI of the supplied equipment, evaluation of the MVP and MVCR in respect ...  What is MVP / MVCR? Does this mean Minimum Viable Product / Minimum Viable Capability Release?	Affirmative, that's correct.	<b>BEL</b>
102.	22	44	DPR involving delivery/ installation/ integration/ trials etc.  How to Access DPR document	The Bidder(s) to comply to the relevant conditions/clauses of the RFP.	<b>BEL</b>
103.	254	97	OEM Qualification requirements.  Data Centre, DR Data Centre and Zero Touch ROBO OEM components of Hardware, Hyper-Converged Appliances for ROBO, Virtual NGFW, Backup software, SDDC software, SD-WAN should have been mentioned in latest Gartner Magic Quadrant/ Forrester Wave Reports in respective	Para 97 on page 254 of RFP may be read as  for "SDWAN" read "WAN SWITCH"  and  'Data Center..... Gartner Magic Quadrant/ Forrester	<b>HCIL</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>product category</p> <p>Gartner is mostly for global players. We have many entities in India that provides SDWAN devices. It is recommended to remove Gartner/Forrester clause for larger participation of OEMS for cost effective solution specifically for SDWAN</p>	<p>Wave Reports or relevant Indian certifications/ report such as TEC/ TSEC, STQC, BIS or their accredited lab reports in respective product category'.</p>	
104.	Site readiness	General	<p>Customer has to ensure the site readiness before bidder depute engineer at site for installation. Delay due to site readiness will not be consider under the delivery time lines and no penalty or LD will be applicable on bidder.</p>	<p>ICG shall hand over clear land to the bidder for construction activities. Construction of civil infrastructure, installation of ICT and civil components and proving are the responsibility of bidder. The penalty or LD for the contract shall be governed by the conditions mentioned in RFP.</p>	<b>Airtel</b>
105.	Acceptance criteria	General	<p>We request to please define the acceptance criteria</p>	<p>Definition of go-live is defined at para 4(d) of RFP</p>	<b>Airtel</b>
106.			<p>The entire RFP has got multiple specialized services. An individual RFP will help the bidders to offer individual skilled and specialized services with better direct SLA. Currently the bid is a consolidated and no Single bidder will have deliverables of its own to supply. Hence we submit our humble request to have specific RFPs as per below scope:</p> <p>1. Data Center Build (IT and Non-IT) and Cloud/NOC/SOC with Managed Services</p>	<p>The Bidder(s) to comply to the relevant conditions/ clauses of the RFP.</p>	<b>Yotta</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			2. Network Services (WAN, VSAT) 3. ERP Implementation and maintenance		
107.	254	97	<p>OEM Qualification requirements.</p> <p>Data Centre, DR Data Centre and Zero Touch ROBO OEM components of Hardware, Hyper-Converged Appliances for ROBO, Virtual NGFW, Backup software, SDDC software, SD-WAN should have been mentioned in latest Gartner Magic Quadrant/ Forrester Wave Reports in respective product category</p> <p>Gartner is mostly for global players. We have many entities in India that provides SDWAN devices. It is recommended to remove Gartner/Forrester clause for larger participation of OEMS for cost effective solution specifically for SDWAN</p>	<p>Para 97 on page 254 of RFP may be read as</p> <p>for "SDWAN" read "WAN SWITCH"</p> <p>and</p> <p>'Data Center..... Gartner Magic Quadrant/ Forrester Wave Reports or relevant Indian certifications/ report such as TEC/ TSEC, STQC, BIS or their accredited lab reports in respective product category'.</p>	<b>RailTel</b>
108.	438	7.3.1.2	<p>Performance Testing. Carryout Load Testing, Stress Testing, Scalability Testing, Stability Testing by simulating conditions specific to ICG such as Wide Area Network (WAN), VSAT links with latency upto 1800ms etc.</p> <p>Performance Testing. Carryout Load Testing, Stress Testing, Scalability Testing, Stability Testing by simulating conditions specific to ICG such as Wide Area Network (WAN), VSAT links with latency upto 1800ms etc.</p>	<p>VSAT specification mentioned in RFP is minimal. The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.</p>	<b>RailTel</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>We request Coast Guard to consider LEO technology for SATCOM solution as it can provide low latency and high throughputs. For example a LEO VSAT will be able to provide throughputs of 50Mbps and Latency of 100ms. Hence Remote to Remote response will be approx 250ms where as in MESH it 800ms and Star its 1600ms.</p>		
109.	257	103	<p>List of CG Stations &amp; Designed Bandwidth.</p> <p>VSAT Locations at ISLAND are highly corrosive</p> <p>We request Coast Guard to ensure the VSAT provided at ISLAND locations is covered by RaDome as the ISLAND environment is highly corrosive. The electronics equipment along with Antenna gets rusted more often &amp; its very difficult to carry out repairs at these ISLAND locations. Hence Antenna system should be protected by RADOME</p>	<p>VSAT specification mentioned in RFP is minimal. The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.</p>	RailTel
110.	257	103	<p>List of CG Stations &amp; Designed Bandwidth.</p> <p>VSAT Locations at ISLAND have high wind velocity</p> <p>We request Coast Guard to deploy Automatic steerable Gyro Antenna as ISLAND locations for continuous connectivity. The Static VSAT Antenna 2.4m / 3.2m gets misaligned due to</p>	<p>The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.</p>	RailTel



Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			high wind velocity. The new age LEO VSAT with Radome covering ensures that there is no Wind misalignment		
111.	257	103	<p>List of CG Stations &amp; Designed Bandwidth.</p> <p>Next Generation LEO VSAT enables 100Mbps Throughput, Low Latency 100ms, quick deployment as no Antenna Pointing is needed. We request Coast Guard to allow bidder to quote for LEO VSAT as alternate media to MPLS where MPLS is not available or have low uptimes.</p>	VSAT specification mentioned in RFP is minimal. The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>RailTel</b>
112.			<p>Backhauling Link</p> <p>Link from Commercial VSAT Operator to CG DC/DR</p> <p>Coast Guard is requested to include in BOQ the backhaul link of 20Mbps at-least to DC &amp; DR each from Satellite Service provider HUB. This can be encrypted by IPSEC to enhance security</p>	The Bidder(s) to comply to the relevant conditions/ clauses of the RFP.	<b>RailTel</b>
113.		Not mentioned	<p>Ethernet ports in VSAT modem</p> <p>Please clarify the number of Ethernet ports required in VSAT modem</p>	2	<b>RailTel</b>
114.	Page 89/ clause 52.26 Page 100/ clause 54.14 Page 101/ Section 55 Page 102/ Clause 55.13 Page 113/	<b>Deployment:</b> It's mentioned that solutions/tools asked must have deployment, integration & support for containerized platform/deployment. In our understanding EMS Solution required in RFP should have CLOUD-NATIVE,	Request to kindly confirm the same.	References sited and query are discrepant.	<b>Rah Infortech</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
	clause 60.47 to 60.53 Page 242/ Clause 91.26	CONTAINERIZED AND MICRO-SERVICE BASED ARCHITECTURE.			
115.	Page 194/ clause 78.17 Page 201/ clause 78.113 & 78.114	<b>Implementation:</b> It's mentioned that implementation, services & support should be directly by OEM and resource should be on OEM payroll	Request to kindly confirm the same.	As per RFP, Cloud automation resource must be on OEM payroll.	<b>Rah Infortech</b>
116.	page 408, 142 & 155	<b>ONPREM Subscription (OPS) :</b> It's mentioned about Public Cloud , Subscriptions & ONPREM - In our understanding ICG is looking for ONPREM deployment on subscription Model for 5 Years with extension possibility for another 5 Years. Where OEM will own all the Support till the entire Subscription duration and deployment will be ON PREMISE	Request to kindly confirm if ICG is OK with ON PREMISE subscription based licensing for 5Yrs + 5Yrs. Extension after completion of initial term.	The requirement is construction of on premise datacentres, deployment of ERP application and establishment of ICGWAN. Query is not clear.	<b>Rah Infortech</b>
117.	General Query	General Query	Request  To enable bidders so that they are able to deliver the best of their global expertise, we request you to please add following clause :  Experience of the Parent/Holding Company/its subsidiary or subsidiary companies/its branch offices/its associates/member of same network or member of same global firm shall also be acceptable provided a certificate is given by the bidding entity	The Bidder(s) to comply to the relevant conditions/ clauses of the RFP..	<b>Deloitte</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			mentioning that they would be able to draw international resources/expertise/certificates from them as and when required to fulfill commitments.		
118.	387	237.2	..... customised UIS/UX should be based on ICG SIMHA 'Unified Portal' ..... Please provide details of SIMHA. Is it a integration layer/API Gateway?	SIMHA is a middleware platform. Details of SIMHA platform will be provided during SRS stage.	<b>Deloitte</b>
119.	389	238.1	..... as part of 'Unified ICG Portal' architecture requirements ..... Please provide details of the architecture.	Architecture details will be provided during SRS stage.	<b>Deloitte</b>
120.	General	NA	Will UAT be done at single location or multi-location?	UAT will be carried out at multiple locations.	<b>Deloitte</b>
121.	462	2.6.6	Completion of security audit. Will all ship borne systems need to be security audited?	Sl. 6 of BOM on page 500 of RFP relevant.	<b>Deloitte</b>
122.	2	3.c	Buy Indian Will Indian content %ge be measured at overall level? If not, How Indian content component in ERP will be measured?	IC content will be calculated as per para 21 of Ch-01 of DAP-2020 and DAP-2020 is available in the MoD website.	<b>Deloitte</b>
123.	20 & 29	Evaluation of Technical Offers  PART-III- COMMERCIAL REQUIREMENTS	38. Commercial bids of only those bidders who qualify in the Pre-qualification criteria would be opened.  Commercial Bid Opening - 55. The CNC will determine the lowest bidder (L1).  We request for "Quality and Cost	The bidder to comply to the conditions/ requirements at para 38 and 55 on page 20 and 29 of RFP.	<b>Deloitte</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			Based Selection (QCBS)" method to select the most competent bidder; instead of selection based on Lowest Bidder (L1). For this, we request to add "Technical Evaluation Criteria's in RFP; for QCBS, the Technical marks can be given a weightage of 80% and commercials can be given a weightage of 20%.		
124.	456	Annexure v to Appendix: H  DELIVERY SCHEDULE AND STAGES OF PAYMENT	APBG of equivalent amount to be submitted  As per RFP, we already would be submitting: 1) Performance-cum-warranty Bank Guarantee - 3% of total contract Price; & then 2) On signing of contract and on submission of Project Report, 15% of entire contract value will be released as payment against APBG.  Total Bank guarantee of 18% of Total contract value will be with ICG; hence we request ICG not to collect APBG of equivalent values from the remaining payment milestones	The bidder to comply to the conditions/ requirements at Annexure V to Appendix H of RFP.	<b>Deloitte</b>
125.	<b>Additional queries raised during pre-bid meeting</b>				
126.	Genral		Is in-house ERP project allowed for qualifying in PQ criteria?	In-house ERP project implementation as experience will be considered as meeting the criteria mentioned in PQ.	<b>BEL</b>
127.			Since no major data centre implementation have been undertaken in last few years due to COVID	5 yrs experience is sought after considering the slowness occurred due to	<b>L&amp;T</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			pandemic, 5 Yrs experience sought in the RFP may be relaxed to 7-10 yrs.	pandemic. Therefore, bidder is requested to comply with RFP requirement.	
128.	3	3.d	Minimum IC Content required - 45%  Please clarify , whether it is on individual items or complete bid	IC content will be calculated as per para 21 of Ch-01 of DAP-2020 and DAP-2020 is available in the MoD website.	Sara Infoway
129.	Appendix N Section -1/ Page no. 490	Pre-Qualification Criteria.	Bidder must have established minimum 55 kW Data Centre Data Centre in last five years. Pls amend this clause as for this type of work where 340 kW IT load. Bidder must have established minimum 500 kW Data Centre in last Five years.	As per conditions at para 2 (e) & (f) on page 490 of RFP, Bidder must have established minimum 55 kW Data Centre Data Centre in last five years.	Nikom
130.	Appendix N Section -1/ Page no. 490	Pre-Qualification Criteria.	Bidder must have established minimum one Uptime institute certified Tier – III Data Centre in last five years. Pls Amend this clause as Bidder must have established minimum one Uptime institute or TIA - 942 certified Rated-3 Data Centre in last Five years.	As a pre-qualification, Bidder must have established minimum one Uptime Tier- III/ TIA- 942 rate-3 certified Data Centre in last five years. Either prime bidder or consortium partner must have the requisite experience. However, the selected (L1) bidder to construct proposed data centre with Uptime Institute Tier-III certification IAW para 2(a)(i) on page 2 of RFP.	Nikom
131.	Section-2, Clause d/ Page no. 4	Special features of the RFP/ Go live Project Completion	Completion of Design & Construction Certification from Uptime Institute. Pls amend this clause. It shall be written as completion of Design & Construction	Bidder to comply with para d(ii) on page no. 4 of RFP.	Nikom

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			Certification from Uptime Institute/ TIA 942.		
132.	488	Average Annual Turn Over	<p>Min Avg Annual Turnover for last 03 financial years, ending 31st March of the previous financial year, should not be less than 100 Cr.</p> <p>We request to amend the clause as under: Min Avg Annual Turnover for best 03 financial years out of the last 5 financial year (FY 2017-18, 2018-19, 2019-20, 2020-21, 2021-2022), should not be less than 100 Cr.</p>	Please refer conditions laid down at para 1(1.b) on page 488 of the RFP. Annual Turn over of the lead bidder should not be less than 100Cr.	<b>Xtranet</b>
133.	488	Net worth	<p>Net worth of entities, ending 31st march of the previous financial year, should not be less than 31 Cr.</p> <p>We request to amend the clause as under: Net worth of entities, ending 31st march of the previous financial year, should not be less than 10 Cr</p>	Refer conditions laid down at para 1(1.c) on page 488 of the RFP. Net worth of the lead bidder should not be less than 31Cr.	<b>Xtranet</b>
134.	489	<p>(i) Integration Experience</p> <p>(ii) Turnkey Projects Experience</p>	<p>(i) Experience of not less than one project in integration of similar ICT projects (read with Para 5 &amp; 6 below).</p> <p>(ii) Turnkey Projects - Experience of successful completion of one similar project as defined in para 5 to 6 below within last 05 Years with value of at least 125 Cr. or currently executing a contract of similar nature with value of at least 185 Cr.</p> <p>We request to amend the clause as</p>	Refer to RFP conditions laid down in para 1(2.c) on page 489 and para 5 & 6 on page 492.	<b>Xtranet</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>under:</p> <p>(i) Experience of not less than one project in integration of similar ICT projects (read with Para 5 &amp; 6 below).</p> <p>(ii) Turnkey Projects - Experience of successful completion of one similar project as defined in para 5 to 6 below within last 05 Years with value of more than 50 Cr. or currently executing a contract of similar nature with value of at least 50 Cr.</p>		
135.	492	Point 7	<p>7. To be considered as a similar project, the value of the project, if already implemented should not be less than 125 Crores. Value of the project still under implementation should be not less than 185 Crores.</p> <p>We request to amend the clause as under:</p> <p>7. To be considered as a similar project, the value of the project, if already implemented should be more than 50 Crores. Value of the project still under implementation should be at least 50 Cr.</p>	<p>Refer to RFP conditions laid down in para 1(2.c) on page 489 and para 5 &amp; 6 on page 492.</p>	<b>Xtranet</b>
136.	488	Nature of Business	<p>System Integrator of ICT/ Data centres/ Networking of similar nature projects (read with Para 5 &amp; 6 below) and not a trading company, except in cases where OEM participates only through its authorised Vendors.</p> <p>System Integrator of ICT/ Data centres/ Networking/ICCC of similar nature</p>	<p>Refer to conditions laid down at para 1(2.a) on page 488 of the RFP.</p>	<b>Xtranet</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			projects (read with Para 5 & 6 below) and not a trading company, except in cases where OEM participates only through its authorised Vendors.		
137.	488	Experience in related field	<p>Min 02 Yrs. experience in System Integration &amp; turnkey projects of similar nature (read with Para 5 &amp; 6 below). If not, then cumulative experience of at least 03 years in system integration, designing &amp; commissioning of data centers/ networking. (In case SHQ feels that for particular equipment a lesser experience could be accepted, then the same should be specifically approved by the RFP approving authority before including the same in the RFP).</p> <p>Min 02 Yrs. experience in System Integration &amp; turnkey projects of similar nature (read with Para 5 &amp; 6 below). If not, then cumulative experience of at least 03 years in system integration, designing &amp; commissioning of data centers/networking/ICCC. (In case SHQ feels that for particular equipment a lesser experience could be accepted, then the same should be specifically approved by the RFP approving authority before including the same in the RFP)</p>	<p>Bidder can meet the criteria as a single entity or as a consortium/ JV partnership. In this regard refer para 5,6 on page 492.</p>	<b>Xtranet</b>
138.	490	Data Centre	<p>Bidder must have established minimum one Uptime institute certified Tier – III Data Centre in last five years.</p> <p>Bidder must have established minimum</p>	<p>Bidder must have established minimum one UPTIME Tier- III / TIA- 942 rate-3 certified Data Centre in last five years. However, the L1 bidder to construct</p>	<b>Xtranet</b>



Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			one Uptime institute certified Tier – III Data Centre/ICCC in last five years.	proposed data centre with Uptime Institute Tier-III certification IAW para 2(a)(i) on page 2 of RFP.	
139.	490	Network	Bidder must have established WAN network connecting minimum 50 sites.  Bidder must have established WAN/ SDWAN network connecting minimum 50 sites.	The bidder to comply to the conditions/ requirements at para 2 (k) & (l) on page 490 of RFP. Bidder must have established WAN network connecting minimum 50 sites.	<b>Xtranet</b>
140.	490	Network	Bidder must have established minimum one MPLS or VSAT network.  Bidder must have established minimum one MPLS/ VSAT/ SDWAN network.	The bidder to comply to the conditions/ requirements at para 2 (k) & (l) on page 490 of RFP. Bidder must have established minimum one MPLS or VSAT network.	<b>Xtranet</b>
141.	492	Similar Projects	For the purpose of this project, a similar project, wherever referred to in subsequent parts would imply a project, which encompasses all elements envisaged as part of the DCG project, i.e. it should have an element of data Centre/ disaster recovery data Centre implementation, a network implementation, and ERP based solution. However, if a bidder as a single entity may not have executed a single project encompassing all components, at least one of the partner firms in the partnership, JV or the consortium bidding for the project must have undertaken at least one project encompassing one of the components of the DCG project. In case of a consortium, JV or a partnership, the	The bidder to comply to the relevant conditions/ requirements at para 5 of page 492 of RFP.	<b>Xtranet</b>

Sl.	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>lead bidder must mandatorily have by itself implemented or implementing an ERP intensive project.</p> <p>For the purpose of this project, a similar project, wherever referred to in subsequent parts would imply a project, which encompasses all elements envisaged as part of the DCG project, i.e. it should have an element of ICCD/data Centre/disaster recovery data Centre implementation, a network implementation, and ERP based solution. However, if a bidder as a single entity may not have executed a single project encompassing all components, at least one of the partner firms in the partnership, JV or the consortium bidding for the project must have undertaken at least one project encompassing one of the components of the DCG project. In case of a consortium, JV or a partnership, the lead bidder must mandatorily have by itself implemented or implementing an ERP intensive project.</p>		

**DC, DRDC AND NLDC RELATED PRE-BID QUERIES AND REPLY**

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
1.	Appendix A Section- 3.1.5/ Page no. 33	DG set requirement in Phase -1	At page no. 33 DG set capacity mentioned is 400 kW and on page no. 48 point no. 13.13 DG capacity mentioned is 320 kW. Pls clarify.	Bidder to provide DG set of 400kW capacity in (N+N) configurations as mentioned in para 3.1.5 on page 33 of RFP.	<b>TCIL</b>
2.	Appendix A Section- 3.1.5/ Page no. 33	Capacity of Modular UPS system	At page no. 33 Modular UPS capacity mentioned is 400 kVA/kW and on page no. 40 Clause 8.1 UPS chassis mentioned scalable upto 500 kVA/ kW. Pls clarify.	Bidder to provide Modular UPS of 200kW capacity in (N+N) configurations as mentioned in para 3.1.5 on page 33 of RFP.	<b>TCIL</b>
3.	Section 8.2/ Page no. 42	Battery Specifications	Pls also add LMO type Lithium Batteries.	Bidder has to comply RFP requirement.	<b>TCIL</b>
4.	Appendix A Section- 3.1.5/ Page no. 33	PAC unit ratings	At page no. 33 PAC rating mentioned is 27 TR and on page no. 52 in DC layout PAC rating shown 30 TR. Pls clarify.	Bidder to provide PAC rating 27 TR as mentioned in para 3.1.5 on page 33 of RFP.	<b>TCIL</b>
5.	Section 22, Clause 22.1.5/ Page no. 55	PUE	PUE in DC is not required. Pls confirm	The conditions at para 22 on page 55 of RFP are to be complied.	<b>TCIL</b>
6.	Section 27, Clause 27.1/ Page no. 58	UPS specifications	In DR site total IT load is 180 kVA (including both the phases) then why 400 kVA UPS system required. Pls check.	Refers to para 27.1 on page 58 of RFP, the UPS should be with 3 phase Fully Rated Pluggable Hot Swappable Static Switch Module (On Line Draw In/Out) shall be provided. Sub Power modules shall be swappable without putting the UPS in bypass/battery operation.	<b>TCIL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
7.	Section 13/ Page no. 48	High level Bill of material	There is only supply of rack for (both the phases). Not loading of racks (phase -2). Pls clarify	Bidder to provide following racks:- DC - 34 racks (Para 13, page 48 of RFP). DRDC - 18 racks (Para 34, Page 65 of RFP). NLDC - 5 racks (Para 49, page 83 of RFP). All racks will be fitted with ICT components as specified in Appendix-Q of the RFP.	TCIL
8.	Section 34/ Page no. 65	Data Recovery Data Centre-High level Bill of Material	DG capacity mentioned in BOM is under rated for 90 kW load in Phase-1	Minimum specifications are mentioned in RFP. The mentioned is usable IT Load of ICG, overhead has to be catered by the bidder. Bidder to propose a workable solution meeting the same	TCIL
9.	Section-44, Clause 44.7/ page no. 22	Monitoring of Project Based on Contractual Milestones	<b>Existing Clause-</b> Submission of list of clearances to be obtained by ICG. Pls confirm that all the site related clearance from Govt. agencies/ organizations will be ICG scope is it.	Permission should be obtained by SI. Documents/ certificate, if required, will be provided by ICG.	TCIL
10.	Section-14/ Page 49	Suggested Layout Ground floor	Please prove earthing location and distance from server room.	All layouts published in RFP are indicative design layouts. Bidder needs to provide the layout of DC, DRDC and NLDC along with the technical proposal in accordance with Uptime institute guidelines. All layouts published in RFP are indicative design layouts. Bidder needs to provide the layout of DC, DRDC and NLDC along with the technical proposal in	TCIL
11.	Section-14/ Page 49	Suggested Layout Ground floor	DG main cable to LT panel laying through cable or Trench please clarify.		TCIL
12.	Section-14/ Page 49	Suggested Layout Ground floor	Please provide Cable length between Main LT panel to server room.		TCIL
13.	Section-14/ Page 49	Suggested Layout Ground floor	Please provide site Layout Cad drawing.		TCIL

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
14.	Section-15/ Page 50	Suggested Layout first Floor	Please provide Building layout and elevation Cad drawing	accordance with Uptime institute guidelines.	TCIL
15.	section-16/ Page 51	Suggested Layout Second floor	Please provide cooling outdoor unit distance from server room.		TCIL
16.	Page 41 / TECHNICAL SPECIFICATIONS: DATA CENTRE / 8.Electrical & UPS Works	200 kVA modular UPS in N+N configuration, scalable up to 500 KVA and Lithium-ion Battery banks to provide minimum 10 minutes back up at full load. Should be integrated with DCIM software for centralized monitoring & management.	Request you to kindly share the detailed specification & technology for the UPS System	UPS specifications are given at para 8 on page 40 for DC. Para 27 on page 58 for DR. Para 43 on page 77 for NLDC. Vendor to propose suitable solution as per RFP requirement. The UPS should be with 3 phase Fully Rated Pluggable Hot Swappable Static Switch Module (On Line Draw In/Out) shall be provided. Sub Power modules shall be swappable without putting the UPS in bypass/battery operation.	TCIL
17.	Page 41 / TECHNICAL SPECIFICATIONS: DATA CENTRE / 8.Electrical & UPS Works/8.1.5	The main system controller shall be hot-swappable and while the system is running live, removing or replacing the main system controller shall have no impact on the load.	The main system controller shall be hot-swappable and while the system is running live, removing or replacing the main system controller shall have no impact on the load OR Each power module shall have its own intelligent control logic to avoid single point of failure	The bidder to comply to the conditions/ requirements at para 8 on page 41 of RFP.	TCIL

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
18.	Page 42 / TECHNICAL SPECIFICATIONS: DATA CENTRE / 8.6. Cooling Works	Data Centre cooling solution should be perimeter cooling solution with 42U useable rack space per rack to support Medium/ High Density Rack Load of up to 10KW per rack. The Cooling units should be in (N+1) configuration.	Request you to kindly share the detailed specification & technology for the perimeter cooling units. Quantity and Capacity of the precision cooling unit should be as per OEM design parameters meeting the IT Load requirement.	Bidder to propose a workable solution to meet the requirement mentioned in RFP.	TCIL
19.	Page 45 / TECHNICAL SPECIFICATIONS: DATA CENTRE / 8.11 BMS and NMS Systems /8.11.1.	The Building Management System will be implemented to monitor the various systems installed later. Entire server room, Equipment should be monitored with the DCIM and Unified IT Operation Management with Network Management System (NMS). All Data Centre components should be provided with suitable DCIM/ BMS/ UIM interface modules. All required cables and relevant accessories to be laid. Detailed specification of DCIM and BMS are given in Chapter 06 of DPR.	Request you to kindly share the detailed specification for the DCIM. Further, it is suggested to consider dedicated DCIM for the Data Centre Non IT Infrastructure.	(a). As per Para 40.11 on page 74 of RFP, the DCIM solution is required for the DC, DRDC & NLDC for central management and monitoring of Data Centre facilities, infrastructure and IT infrastructure. As mentioned in the RFP the desired solution must have following minimum capabilities:- (i) A location-based drill-down view provides a structured overview of data center locations, from a global to local view down to single assets. (ii) Visualization of the Data Center and Racks should visualize the heat maps in a rendering of the floor view & should allow to view actual rack heat load and to help balancing and optimizing the system and generate reports - with this feature DC operation team will be able to identify potential hot pockets, airflow problem on floor, also this must help	TCIL

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
				operation team to optimize the cooling inside /outside of room/rack thus bringing room & rack level cooling efficiency. (iii) Supply, Installation, Testing and Commissioning of Standard Dashboard and Reporting, Audit Trail, Tenancy, Capacity, History, Contiguous Free U-Space, Customer Inventory Report, Executive Power, Asset lifecycle management and Space Rack U. (b). Bidder to provide DCIM software for managing ICT and Non-ICT infrastructure.	
20.	Page 45 / TECHNICAL SPECIFICATIONS: DATA CENTRE / 8.11 BMS and NMS Systems /8.11.2	IP enabled PDU compatible to BMS with the following design:- 47.5.1. Sleek design. 47.5.2. Locking power chord.	Kindly Amend As: "IP enabled PDU compatible to BMS/DCIM with the following design:- 47.5.1. Sleek design. 47.5.2. Locking power <b>sockets</b>	The bidder to comply to the conditions/ requirements at para 8.11 on page 45 of RFP.	<b>TCIL</b>
21.	Page 46 / TECHNICAL SPECIFICATIONS: DATA CENTRE / 8.11 BMS and NMS Systems /8.11.2.6	BMS will be capable of monitoring each cooling system, UPS, Electrical Panels and complete security system such as Fire alarm system, fire suppression system, EMS, ACS, VESDA, WLD, etc.	DCIM will be capable of monitoring each cooling system, UPS, Electrical Panels and complete security system such as Fire alarm system, fire suppression system, EMS, ACS, VESDA, WLD, etc.	Refers to para 13.8 on page 48 of RFP. Both BMS and DCIM software along with requisite accessories for DC, DRDC & NLDC must be part of the solutions.	<b>TCIL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
22.	Page 54 / TECHNICAL SPECIFICATIONS: DISASTER RECOVERY DATA CENTRE/27.1.1	UPS to cater Phase-I load i.e. 200 kVA with 10 mins backup with Lithium-ion battery backup suitable to scale up to 400 kVA with N+N configuration to cater Phase-I & Phase-II loads. The UPS should be the latest state-of-the-art modular system and shall be a single unit, complete with modular, parallel redundancy. UPS standards like EN 62040-1:2008, 2011 and 2013 must be followed.	Request you to kindly share the detailed specification & technology for the UPS System	UPS specifications are given at para 8 on page 40 for DC. Para 27 on page 58 for DR. Para 43 on page 77 for NLDC. Vendor to propose suitable solution as per RFP requirement. The UPS should be with 3 phase Fully Rated Pluggable Hot Swappable Static Switch Module (On Line Draw In/Out) shall be provided. Sub Power modules shall be swappable without putting the UPS in bypass/battery operation.	TCIL
23.	Page 54 / TECHNICAL SPECIFICATIONS: DISASTER RECOVERY DATA CENTRE/27.1.5	The main system controller shall be hot-swappable and while the system is running live, removing or replacing the main system controller shall have no impact on the load.	The main system controller shall be hot-swappable and while the system is running live, removing or replacing the main system controller shall have no impact on the load OR Each power module shall have its own intelligent control logic to avoid single point of failure	The bidder to comply to the conditions/ requirements at para 27.1.5 on page 58 of RFP.	TCIL
24.	Page 60 / TECHNICAL SPECIFICATIONS: DISASTER RECOVERY DATA CENTRE / 28. Cooling Works/28.1	Data Centre cooling solution should be in-rack/ in-row based solution to support average density Rack Load of minimum 10KW per rack with 42U useable rack space per rack.	Request you to kindly share the detailed specification & technology for the in-row cooling units. Quantity and Capacity of the precision cooling unit should be as per OEM design parameters meeting the IT Load requirement.	Bidder to propose a workable solution to meet the requirement mentioned in RFP.	TCIL



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
25.	Page 60 / TECHNICAL SPECIFICATIONS: DISASTER RECOVERY DATA CENTRE /29.9 BMS and NMS Systems /29.9.1.	The Building Management System will be implemented to monitor the various systems installed later. Entire server room, Equipment should be monitored with the DCIM and Unified IT Operation Management with Network Management System (NMS). All Data Centre components should be provided with suitable DCIM/ BMS/ UIM interface modules. All required cables and relevant accessories to be laid. Detailed specification of DCIM and BMS are given in Chapter 06 of DPR.	Request you to kindly share the detailed specification for the DCIM. Further, it is suggested to consider dedicated DCIM for the Data Centre Non IT Infrastructure.	(a) Refers to Para 40.11 on page 74 of RFP, the DCIM solution is required for the DC, DRDC & NLDC for central management and monitoring of Data Centre facilities, infrastructure and IT infrastructure. As mentioned in the RFP the desired solution must have following minimum capabilities:- (i) A location-based drill-down view provides a structured overview of data center locations, from a global to local view down to single assets. (ii) Visualization of the Data Center and Racks should visualize the heat maps in a rendering of the floor view & should allow to view actual rack heat load and to help balancing and optimizing the system and generate reports - with this feature DC operation team will be able to identify potential hot pockets, airflow problem on floor, also this must help operation team to optimize the cooling inside /outside of room/rack thus bringing room & rack level cooling efficiency. (iii) Supply, Installation, Testing and Commissioning of Standard Dashboard and Reporting, Audit Trail, Tenancy, Capacity, History, Contiguous Free U-Space,	TCIL

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
				Customer Inventory Report, Executive Power, Asset lifecycle management and Space Rack U. (b). Bidder to provide DCIM software for managing ICT and Non-ICT infrastructure.	
26.	Page 63 / TECHNICAL SPECIFICATIONS: DISASTER RECOVERY DATA CENTRE /29.9.2	IP enabled PDU compatible to BMS with the following design:- 47.5.1. Sleek design. 47.5.2. Locking power chord.	Kindly Amend As : "IP enabled PDU compatible to BMS/ <b>DCIM</b> with the following design:- 47.5.1. Sleek design. 47.5.2. Locking power <b>sockets</b>	The solution must be able to meet the requirement sought in RFP	<b>TCIL</b>
27.	Page 63 / TECHNICAL SPECIFICATIONS: DISASTER RECOVERY DATA CENTRE/ 29.9.3	BMS will be capable of monitoring each cooling system, UPS, Electrical Panels and complete security system such as Fire alarm system, fire suppression system, EMS, ACS, VESDA, WLD, etc.	DCIM will be capable of monitoring each cooling system, UPS, Electrical Panels and complete security system such as Fire alarm system, fire suppression system, EMS, ACS, VESDA, WLD, etc.	The solution must be able to meet the requirement sought in RFP	<b>TCIL</b>
28.	Page 74 / TECHNICAL SPECIFICATIONS: NEAR LINE DATA CENTRE / Design Requirement /40.4	The cold aisle containment with perimeter cooling solution should be provided.	The Clause 40.4 & 40.6 contradicts each other. We understand that Hot & Cold aisle containment solution with 5 Racks having 3 In-Row units of the capacity is the final requirement. Kindly confirm	The conditions at para 40.6 on page 73 of RFP to be complied.	<b>TCIL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
29.	Page 74 / TECHNICAL SPECIFICATIONS: NEAR LINE DATA CENTRE / Design Requirement /40.6	The NLDC shall be provided as a Hot & Cold aisle containment Smart Row solution with 5 Racks Having 3 In-Row units of the capacity mentioned above. The UPS can be placed in electrical room specifically designed for the NLDC.	We understand that the hot & cold aisle containment will be part of the rack frame & no site fabricated containment will be accepted. Kindly confirm	Affirmative	TCIL
30.	Page 77 / TECHNICAL SPECIFICATIONS: NEAR LINE DATA CENTRE /Electrical & UPS works /43 / 43.1.6	The main system controller shall be hot-swappable and while the system is running live, removing or replacing the main system controller shall have no impact on the load	The main system controller shall be hot-swappable and while the system is running live, removing or replacing the main system controller shall have no impact on the load <b>OR Each power module shall have its own intelligent control logic to avoid single point of failure</b>	The conditions at para 43 on page 77 of RFP are to be complied.	TCIL
31.	Page 83 / TECHNICAL SPECIFICATIONS: NEAR LINE DATA CENTRE /47. Environmental Monitoring System/47.3	It should be capable to integrate with building management system.	Kindly amend as: It should be capable to integrate with building management system/ <b>DCIM through SNMP or other Protocols.</b>	The solution must be able to meet the requirement sought in the RFP.	TCIL
32.	Page 83 / TECHNICAL SPECIFICATIONS: NEAR LINE DATA CENTRE /47.5	IP enabled PDU compatible to BMS with the following design:- 47.5.1. Sleek design. 47.5.2. Locking power chord.	Kindly Amend As: "IP enabled PDU compatible to BMS/ <b>DCIM</b> with the following design:- 47.5.1. Sleek design. 47.5.2. Locking power <b>sockets</b>	The solution must be able to meet the requirement sought in the RFP.	TCIL
33.	8.2.10.1 page 42	The battery offered shall re-gain its 100% power in 2 hour to 4 hours or less.	Battery charging time too less. Suggested to change it to 5 to 7 hours	Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs clause.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
34.	3.1.5.2 page 33	DG set for phase-1 - 400KW - 2nos	2 different requirements mentioned. Which one to consider?	Bidder to provide DG set of 400kW capacity in (N+N) configurations as mentioned in para 3.1.5 on page 33 of RFP.	HPE
35.	13.13 page 49	DG set 320KVA- 2nos		Bidder to provide DG set of 400kW capacity in (N+N) configurations as mentioned in para 3.1.5 on page 33 of RFP.	HPE
36.	22.1.2 Page 55	Phase-I which is present scope, shall cater 90 Kw i.e. about 1/2 of designed capacity.	90 KW IT load in phase- does not require 200kva modules. Please suggest	(a) 200 KVA module is catered by taking scalability requirement in to account. (b) UPS specifications are given at para 8 on page 40 for DC. Para 27 on page 58 for DR. Para 43 on page 77 for NLDC. The UPS should be with 3 phase Fully Rated Pluggable Hot Swappable Static Switch Module (On Line Draw In/Out) shall be provided. Sub Power modules shall be swappable without putting the UPS in bypass/battery operation.	HPE
37.	27.1.1 Page 59	UPS to cater Phase-I load i.e. 200 kVA with 10 mins backup with Lithium-ion battery backup suitable to scale up to 400 kVA with N+N configuration to cater Phase-I & Phase-II loads.			HPE
38.	34.13 Page 67	DG Set 150KVA with AMF 1 set	1 Nos. 150KVA DG may not be sufficient for phase-1 90KW IT load and supporting cooling load and redundancy. Please suggest	As per sl. 34.4 & 34.13 on page 65, bidder to provide 01 Set (Qty -02, N+N), DG set of 150 kVA with AMF.	HPE
39.	40.1 page 74	Total IT equipment load of 50 Kw (5 Racks of 10 Kw Each).	1 nos. 100KVA DG may not be sufficient for 50KW IT load and supporting cooling load and redundancy. Please suggest	DG set capacity mentioned here is minimum requirement. Bidders to propose suitable solution in technical bid. In this regards, Para 40.2 on page no. 73 is relevant	HPE
40.	40.2 page 74	40.2 DG Set of 100KVA in N+N configuration as required. Provisioning of DA includes installation and commissioning.			HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
41.	13.33/49	DG Set 320KVA with AMF	Conflict in DG ratings, 400 KW (N+N) DG given in equipment rating table on page no 33/3.1.5.1 whereas section 13.13/Page Number Kindly clarify. However, 400 KW rating is correct and 320 KVA will be under capacity.	Bidder to provide DG set of 400kW capacity in (N+N) configurations as mentioned in para 3.1.5 on page 33 of RFP.	<b>HPE</b>
42.	4/35	Design Sizing. The clear land will be provided to bidder by ICG. The bidder has to construct the civil infrastructure for approximately 3035 Sq. mtr carpet area (Average floor area for G+2 with stilt area of 1012 Sq Mtr) for data Centre. Data Centre design should be certified for meeting Tier-III standards by Uptime Institute and relevant certificate to be provided. For that the bidder shall have to involve the Uptime Institute right from design, layout, construction till final handing over of the civil infrastructure. The average power consumption for each server rack to be considered is 10 kW. Further scalability of the building should be considered while designing of Data Centre.	For DC proposed in campus. There isn't any mention of boundary/ security wall. Kindly confirm whether it is required or not.	Construction of boundary wall for DC campus is not in the scope of Bidder	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
43.	34.13/67	DG Set 150KVA with AMF	For IT load of 90 KW, 150 KVA DG set will be highly insufficient. Considering Tier III compliance, DG requirement shall be given in KW ( DC Continuous Rating) . Refer the table.	As per sl. 34.4 & 34.13 on page 65, bidder to provide 01 Set (Qty -02, N+N), DG set of 150 kVA with AMF.	<b>HPE</b>
44.	40.2/74	DG Set of 100KVA in N+N configuration as required. Provisioning of DA includes installation and commissioning.	For IT load of 50 KW, 100 KVA DG set will be highly insufficient. Considering Tier III compliance, DG requirement shall be given in KW (DC Continuous Rating). Refer the table.	DG set capacity mentioned here is minimum requirement. Bidders to propose suitable solution in technical bid. In this regards, Para 40.2 on page no. 73 is relevant	<b>HPE</b>
45.	40.12/75	Design Sizing. Civil infrastructure of approximately 50 Sq. mtr are to be constructed for NLDC. For that the bidder shall have to involve the Uptime Institute right from design, layout, construction till final handing over of the civil infrastructure. The average power consumption for each server rack to be considered is 10 kW. The bidder has to provide layout diagram/ architectural diagram of the NLDC within 45 days of signing the contract.	It is not clear from the description and drawing provided in RFP that what all areas and services would be required in NLDC e.g. UPS rooms, electric panel rooms, workstations area, security reception, Point of entry etc Also confirm whether any security boundary is required.	NLDC architecture and design must be in compliance with tier-III certification requirement of Uptime Institute. Accordingly, bidder to propose the architecture and design of NLDC in technical proposal.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
46.	3/32	Only the clear land will be provided by Coast Guard to the SI for construction of civil infrastructure for the Data Centre. The SI has to establish the data centre as per standard and involve Uptime Institute right from inception till final certification for complete project. The DC shall be designed catering for following: -	Normally, due to increase in input cost of items like steel and cement etc upward prices is applicable in DSR. Will this applicable in this project.	Commercial of the bidder has to cater all foreseen costs. Contract will be signed with L1 bidder for the cost quoted in commercial bid.	HPE
47.	Suggested DC layout - Ground Floor	Figure 3-A: Primary DC - Physical layout	Kindly confirm on the number of workstations & nodes required at this floor? What is the connectivity between Ground Floor & Data Center Floor? Is there any Telecommunication room on this floor? Kindly share a clear layout diagram for this floor	No. of nodes and workstation has been provided on para 13.19 on page 48 of RFP. However, design has to be proposed by the bidder as per the civil architecture of the DC, DRDC.	HPE
48.	Suggested DC layout - First Floor	Figure 3-B: Primary DC - Physical layout	Kindly confirm on the number of workstations & nodes required at this floor? What is the connectivity between First Floor & Data Center Floor? Is there any Telecommunication room on this floor? Kindly share a clear layout diagram for this floor		HPE
49.	Suggested DC layout - Second Floor	Figure 3-C: Primary DC - Physical layout	Kindly confirm on the number of workstations & nodes required at this floor? What is the connectivity between Second Floor & Data Center Floor? Is there any Telecommunication room on this floor? Kindly share a clear layout diagram for this floor		HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
50.	Suggested DC Rack Layout	Figure 3-D: Data Centre - Rack Distribution	How many network racks & server racks are in the shared layout? What is the inter-rack connectivity? What is the port connectivity at each rack? Is 100G connectivity required or 10G connectivity? How is the connectivity upto DC from remaining setup? Is it via 100G connectivity? Kindly share a clear layout diagram for this floor. Where will be the MUX room & NOC room for this DC?	In Data Centre total Racks - 34, Network Racks - 05, Server Racks-29, Connectivity between racks and locations of mux room and NOC rooms needs to be proposed by the Bidder.	HPE
51.	Suggested Disaster Recovery Data Centre Layout	DR-DC - Ground Floor	Kindly confirm on the number of workstations & nodes required at this floor? What is the connectivity between Ground Floor & Data Center Floor? Is there any Telecommunication room on this floor? Kindly share a clear layout diagram for this floor	No. of nodes and workstation has been provided on para 34.20 on page 66 of RFP. However, design has to be proposed by the bidder as per the civil architecture of the DC, DRDC.	HPE
52.	Suggested Disaster Recovery Data Centre Layout	DR-DC - First Floor	Kindly confirm on the number of workstations & nodes required at this floor? What is the connectivity between First Floor & Data Center Floor? Is there any Telecommunication room on this floor? Kindly share a clear layout diagram for this floor		HPE
53.	Suggested Disaster Recovery Data Centre Layout	DR-DC - Second Floor	Kindly confirm on the number of workstations & nodes required at this floor? What is the connectivity between Second Floor & Data Center Floor? Is there any Telecommunication room on this floor? Kindly share a clear layout diagram for this floor		HPE



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
54.	Suggested Disaster Recovery Data Centre Layout	DR-DC - Rack Layout	<p>How many network racks &amp; server racks are in the shared layout? What is the inter-rack connectivity? What is the port connectivity at each rack? Is 100G connectivity required or 10G connectivity? How is the connectivity upto DC from remaining setup? Is it via 100G connectivity? Kindly share a clear layout diagram for this floor.</p> <p>Where will be the MUX room &amp; NOC room for this DC?</p>	<p>IN DRDC total Racks - 18. Network Racks - 03, Server Racks - 15 . Connectivity between racks and locations of mux room and NOC rooms needs to be proposed by the Bidder.</p>	<b>HPE</b>
55.	NLDC Layout	Near Line Data Centre Layout	<p>How many network racks &amp; server racks are in the shared layout? What is the inter-rack connectivity? What is the port connectivity at each rack? Is 100G connectivity required or 10G connectivity? How is the connectivity upto DC from remaining setup? Is it via 100G connectivity? Kindly share a clear layout diagram for this floor. Where will be the MUX room &amp; NOC room for this DC?</p>	<p>IN NLDC total Racks - 5. Network Racks - 01, Server Racks - 04 . Connectivity between racks and locations of mux room and NOC rooms needs to be proposed by the Bidder.</p>	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
56.	C-21 Passive Cabling	As per tier-III data center standards	As no technical specifications have been provided for the passive cabling. Kindly help to provide the clarity on the above points, so that we can design technical specifications as per the design layout requirements.	Refers to RFP page 32, as the envisaged datacenter is Uptime standards certificated, the structured cabling thus shall meet all application design and implementation standards applicable, and shall follow a high quality workmanship. Complete cabling solution shall be modular in nature, end-to-end concealed, properly dressed and with adequate identification markings. It shall at a minimum be based on Cat6A/Cat7 for copper cabling, and fiber cabling shall support 100G with MPO/ similar modular connectivity solutions. Bidder shall derive exact quantity, type and speed of structured cabling solution as per overall RFP requirement and number of racks as mentioned in the RFP.	<b>HPE</b>
57.	Page No.-41, Clause No.- 8.1, UPS Specifications, Sub-Clause No.-8.1.7	The UPS system shall be upwardly scalable by simply adding UPS power modules to the available shelves, and adding more shelves if required with no need of any additional parts.	The UPS system shall be upwardly scalable by simply adding UPS power modules to the available shelves.	The bidder to comply to the conditions/ requirements at para 8 on page 41 of RFP.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
58.	Page No.-41, Clause No.-8.2, Battery Specifications, Sub-Clause No.-8.2.1	Lithium-ion of NMC type	Lithium-ion of LFP type	The conditions at para 8 on page 41 of RFP are minimal to be mandatorily complied with. However, Bidder(s) can propose a better configuration and workable solution.	HPE
59.	Page No.-41, Clause No.-8.2, Battery Specifications, Sub-Clause No.-8.2.6	The UPS battery shall support replaceable, hot swappable, fused, battery modules.	The UPS battery shall support replaceable, fused, battery modules.	The bidder to comply to the conditions/ requirements at pra 8 on page 41 of RFP .	HPE
60.	Page No.-42, Clause No.-8.2, Battery Specifications, Sub-Clause No.-8.2.8	The UPS shall incorporate a battery management system to monitor the health of each removable battery module. This system shall notify the continuously user in the event that a failed or weak battery module is found.	The UPS shall incorporate a battery management system to monitor the health of overall battery bank. This system shall notify the continuously in the event of failed & weak battery bank	The bidder to comply to the conditions/ requirements at pra 8.2 on page 42 of RFP.	HPE
61.	Page No.-59, Clause No.-27.1, UPS Specifications, Sub-Clause No.-27.1.6	The UPS system shall be upwardly scalable by simply adding UPS power modules to the available shelves, and adding more shelves if required with no need of any additional parts.	The UPS system shall be upwardly scalable by simply adding UPS power modules to the available shelves.	The bidder to comply to the conditions/ requirements at pra 27 on page 59 of RFP.	HPE
62.	Page No.-60, Clause No.-27.1.8, Battery Specifications, Sub-Clause No.-27.1.8.1	Lithium-ion of NMC type	Lithium-ion of LFP type	The bidder to comply to the conditions/ requirements at pra 27 on page 59 of RFP. The specifications stated at reference clauses are minimum, however bidder is at liberty to include higher specifications/optimize suitably to attain the desired solution.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
63.	Page No.-60, Clause No.-27.1.8, Battery Specifications, Sub-Clause No.-27.1.8.6	The UPS battery shall support replaceable, hot swappable, fused, battery modules.	The UPS battery shall support replaceable, fused, battery modules.	The bidder to comply to the conditions/ requirements at pra 27.1.8 on page 60 of RFP .	HPE
64.	Page No.-60, Clause No.-27.1.8, Battery Specifications, Sub-Clause No.-27.1.8.8	The UPS shall incorporate a battery management system to monitor the health of each removable battery module. This system shall notify the continuously user in the event that a failed or weak battery module is found.	The UPS shall incorporate a battery management system to monitor the health of overall battery bank. This system shall notify the continuously user in the event of failed & weak battery bank	The bidder to comply to the conditions/ requirements at pra 27.1.8 on page 60 of RFP.	HPE
65.	Page No.-79, Clause No.-43.1, UPS Specifications, Sub-Clause No.-43.1.7	The UPS system shall be upwardly scalable by simply adding UPS power modules to the available shelves, and adding more shelves if required with no need of any additional parts.	The UPS system shall be upwardly scalable by simply adding UPS power modules to the available shelves.	The bidder to comply to the conditions/ requirements at pra 43.1 on page 79 of RFP.	HPE
66.	Page No.-79, Clause No.-43.2, Battery Specifications, Sub-Clause No.-43.2.1	Lithium-ion of NMC type	Lithium-ion of LFP type	The bidder to comply to the conditions/ requirements at pra 43.2 on page 79 of RFP. However, Bidder can propose a better and workable solution.	HPE
67.	Page No.-79, Clause No.-43.2, Battery Specifications, Sub-Clause No.-43.2.6	The UPS battery shall support replaceable, hot swappable, fused, battery modules.	The UPS battery shall support replaceable, fused, battery modules.	The bidder to comply to the conditions/ requirements at pra 43.2 on page 79 of RFP .	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
68.	Page No.-79, Clause No.-43.2, Battery Specifications, Sub-Clause No.-43.2.8	The UPS shall incorporate a battery management system to monitor the health of each removable battery module. This system shall notify the continuously user in the event that a failed or weak battery module is found.	The UPS shall incorporate a battery management system to monitor the health of overall battery bank. This system shall notify the continuously user in the event of failed & weak battery bank	The Bidder(s) to comply to the conditions / clauses at Para 43.2 on page 79 of the RFP.	HPE
69.	Page 60, 27.1.8.2 & Page 79, 43.2.2	Sealed maintenance free batteries.	please clarify the type of batteries, SMF or LIB, As per BoQ LIB to be offered	The Bidder(s) to comply to the conditions / clauses at Para 43.2.2. on page 78 of RFP. Bidder to provide Sealed maintenance free batteries.	HPE
70.	Page 60, 27.1.8.6 & page 79, 43.2.6	The UPS battery shall support replaceable, hot swappable, fused, battery modules.	Batteries are not hot swappable	Bidder to provide batteries as per para 43.2.6. on page 78 of RFP.	HPE
71.	page 40, 8.1.1	200 kVA modular UPS in N+N configuration, scalable up to 500 KVA	Please clarify the Frame rating as it is mentioned 400 kW on some places	As per para 3.1.5.5 on page 33, of RFP, bidder to provide modular UPS of 400 kW capacity (N+N).	HPE
72.		DG Sets	Pls Specify the DG technical specs.	Bidder to propose latest and workable solution for DG sets to ICG in the same capacity as proposed in RFP for DC, DRDC and NLDC. Specifications not limited to following higher level specs: Generator set shall have prime power rating based on power factor of 0.8 lagging, shall be capable of withstanding a current equal to 1.5 times of rated current for a period of not less than 30 sec, shall be supplied with weather proof acoustic canopy / enclosure. The	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
				diesel generator set, accessories and control panel shall comply with relevant BS/ IS or other internationally accepted standards. DG to give desired alternator output at site, complete with fuel system, lubrication system, cooling system, air intake and exhaust system, battery and battery charger, instruments and protection system, annunciators, coupling arrangements etc. 415V, 50Hz alternator with exciter, automatic Digital voltage regulator etc.	
73.	General Building Query	warranty 24 months from the date of commissioning -	Yes warranty for DG set 2 years from the date of commissioning where as for the sync/AMF panel 1 year from the date of supply.	As per para 2 of Appendix C on page 406 of RFP, Bidder to provide warranty for the duration of 24 months from the date of installation and commissioning or final go-live whichever is later.	<b>HPE</b>
74.	General Building Query	Active Technology obsolescence management for 15 years	Not applicable for DG set	The conditions at Para 13 on page 12 of RFP are to be complied.	<b>HPE</b>
75.	General Building Query	Product support for 15 years	Yes	The conditions at para 14(a) on page 13 of RFP are to be complied.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
76.	General Building Query	General, Technical, Functional and Operational requirements for Building Construction not provided.	Essential to ensure building construction is as per design standards and requirement	Bidder to propose the Civil architectural design by ensuring the Tier - III design standards of Uptime Institute for the DC, DRDC and NLDC building.	HPE
77.	General Building Query	Space allocation required on site for, Server room, Telecom room, UPS room, security room, Electric room, DG, Electric Substation etc., are not mentioned	Basic building requirements to guide the over all design and construction	All layouts published in RFP are indicative design layouts. Bidder needs to provide the layout of DC, DRDC and NLDC along with the technical proposal in accordance with Uptime institute guidelines.	HPE
78.	General Building Query	Size of plot available with maximum area allowed for building construction required	This is as per the guidelines of the state/ district planning departments	Adequate clear land will be provided by ICG for construction of DC, DR and NLDC.	HPE
79.	General Building Query	Requirement of parking space specially if basement parking is required		Parking space to be considered as per para 12.6 on page 48 of RFP.	HPE
80.	General Building Query	Maximum permissible Height of the building	This is as per the guidelines of the state/ district planning departments or by DCG	Permissible height will be decided as per the guidelines of the state/ district planning department.	HPE
81.	General Building Query	Guidance on building bylaws to be followed	State/ Centre/ DCG norms	State/ center and uptime institute	HPE
82.	General Building Query	Guidance required on Environmental conditions to follow	State/ Centre/ DCG norms		HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor	
83.	General Building Query	DC, DR & NLDR design consideration for Structural safety, stability, load bearing ( dead, live, vibration etc.	ICG should provide	Bidder to propose the design architecture as per RFP to meet tier-III standards of Uptime Institute	HPE	
84.	General Building Query	Number of floors to be considered and minimum load in Kg/Sq. mtr for each floor to be considered	ICG should provide		HPE	
85.	General Building Query	Specification and No. of Stair cases, Lifts and Emergency Exits	ICG should provide		HPE	
86.	General Building Query	Specification of construction materials including all RCC and masonry work	ICG should provide		HPE	
87.	General Building Query	Specifications of walls, floors, finishings, Partitions, Glass etc.	ICG should provide		HPE	
88.	General Building Query	Soil survey and composition details including bearing strength	ICG should provide		HPE	
89.	General Building Query	Fire safety standards to be followed in construction and in the campus area during and after construction	ICG should provide		HPE	
90.	General Building Query	Security and surveillance requirements outside the building but within the campus to be considered	ICG should provide		IAW para 8.8.2.2 on page 43, para 29.2.2 on page 61 and para 45.2.2 on page 80 of RFP, security and surveillance requirements within the campus to be provided by the bidder.	HPE
91.	General Building Query	Approved building plan and regulations to be followed	ICG should provide		Building plan to be provided by bidder for approval of ICG.	HPE



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
92.	DETAILED BILL OF MATERIAL - DATA CENTRE, Page 498- Under Server & Storage -	S No 6- Blade Chassis - C0- 7- 4	Each OEM has different capability to host number of blade server in the chassis. As 34 server asked in the DC, blade chassis qty should be asked as 3 or higher to host asked blade servers.	The bidder can propose suitable solution to meet RFP requirements.	<b>HPE</b>
93.	58. C07 - Composable IT Infrastructure, page 105 90. C39- Composable IT Infrastructure with SDDC, page 233	Addition	Network connectivity of composable infrastructure has not been specified. Request ICG to please add following - "Should support six interconnect bays to configure 3+3 redundancy. Interconnect should support 25Gbps or higher downlinks to the Blades in redundancy supporting carving of each port into at least four ports. Redundant Interconnect modules shall be provided within the chassis such that uplinks from the chassis can be directly connected to core LAN/SAN switches. Each interconnect provided for uplink connectivity should provide at least six QSFP28 populated with transceiver for external uplink to choose Ethernet and FC uplinks as needed. Chassis offered with redundant Switches/ Modules, Server to Server communication should be in 1:1 non blocking. Chassis should also have support for internal SAN switch."	The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to attain the desired solution.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
94.	58. C07 - Composable IT Infrastructure, page 105 90. C39- Composable IT Infrastructure with SDDC, page 233	Addition	Composable Infrastructure would require management application as well. Request to add following clause so that all bidder quote software along with required hardware for management without additional cost of ICG. Please add - "Solution should configured with redundant physical management appliances each with 8 cores, 16Gb Memory and min. 400GB NVMe storage to provision required compute, storage and server side network, OS as single package within an enclosure or on multiple connected enclosures with failover and high-availability. Management appliance could be either external or internal to the offered enclosure. Should support software-defined intelligence and auto-discovery for configuring profiles to provision compute, storage, fabrics and images within an enclosure or on multiple connected enclosures. Should support private/shared storage volumes for DAS/SAN attach to server profiles/templates to enable automated and policy-driven volume provisioning"	The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to attain the desired solution.	<b>HPE</b>
95.	58.19, C07 - Composable IT Infrastructure, Compute Node, Page 107	Addition	Local drive of compute node is not specified. Request to add - "Each compute node should be populated with 2 x 960 GB 12G SAS SSD"	The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to attain the desired solution.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
96.	58.19, C07 - Composable IT Infrastructure, Compute Node, Page 107	Addition	Network requirement is not specified for the composable infrastructure. As ICG looking for maximum utilization of deployed infrastructure with best possible VM density request you to please include Dual port 50 Gbps or 2 Nos of Dual port 25 Gbps converged Network Adaptor. Server should also support FC HBA.	The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to attain the desired solution.	<b>HPE</b>
97.	58.19, C07 - Composable IT Infrastructure, Compute Node, Page 107	Addition	Compute node should have min 03 PCI slots and should support converged network adaptor and FC HBA	The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to attain the desired solution.	<b>HPE</b>
98.	59.1, C08 - Rack Server, Compute, Page 108	(d) 1024 GB DDR4-2666 NVDIMM or higher	Persistent memory (PMEM) is latest technology innovation to provide alternate to NVDIMM. Request you to modify clause as "(d) 1024 GB NVDIMM/ PMEM or higher along with Min 256 GB DDR4 RDIMM"	The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to attain the desired solution.	<b>HPE</b>
99.	59.3, C08 - Rack Server, Network, Page 109	Addition	Network bandwidth requirement is not specified for the rack server. As ICG looking for maximum utilization of deployed infrastructure with best possible VM density request you to please include Dual port 25 Gbps Ether Network Adaptor with SFP and Dual Port 32 Gbps FC HBA.	The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to attain the desired solution.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
100.	62.8, C11 - Secondary Storage, Web Scale, SMB/ NFS/ S3, Hardware Type, Page 121	Complete Secondary storage solution has to be from single OEM (including software, OS and hardware).	We understand that one OEM has to package complete solution including software, OS and Hardware and offer to ICG as complete solution. Kindly confirm.	The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to attain the desired solution. The OEM has to package complete solution for the ease of installation and operation.	HPE
101.	62.10, C11 - Secondary Storage, Web Scale, SMB/ NFS/ S3, Network Ports, Page 122	Provide Minimum 4*10 /25GBps per controller/server node.	Request to modify clause as "Provide Minimum 4*10 /25Gbps per controller/server node."	The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to provide comprehensive solution to meet RFP requirements and SLAs	HPE
102.	64.15, C13 – Back up Appliance, Interface support, page 127	Offered device shall have Minimum of 4 x 10Gbps IP, 4 x 8Gbps FC	32 Gbps FC is latest mainstream technology request to modify Interface to - "Offered device shall have Minimum of 4 x 10Gbps IP, 4 x 32Gbps FC "	Quoted specification is minimum requirement. Bidder can provide latest specification to meet RFP requirements.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
103.	C-09 Block & File Storage - Intranet 60.6, Capacity & Scalability	Offered Storage array shall be supplied minimum with 60TB Capacity using 3.84 TB drives and shall be configured in Raid 6 or equivalent excluding all overheads like RAID parity, file system etc.	To have performance availability of all the controllers provided in the solution drives should be equally distributed among controllers. Request to modify clause as "Offered Storage array shall be supplied minimum with 60TB Capacity using 3.84 TB drives and shall be configured in Raid 6 or equivalent excluding all overheads like RAID parity, file system etc. Drives should be equally distributed among all offered controllers."	The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to attain the desired solution.	<b>HPE</b>
104.	71.4, C20 - SAN Switch, Page 145	Should protect existing device investments with auto-sensing 4, 8, 16 and 32 Gbps capabilities.	We understand ICG is looking for 32Gbps transceiver support on the offered SAN switch. Kindly confirm.	The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to attain the desired solution.	<b>HPE</b>
105.	C36 - Edge Cloud Data Rack Specifications. Page 227		Edge Cloud Data Rack Specifications is not listed. Request you to please add specifications	For detailed specifications refer para 95 at page 250 of RFP.	<b>HPE</b>
106.	HARDWARE SPECIFICATIONS FOR ERP C37 - All Flash Unified Storage, Page 227	HARDWARE SPECIFICATIONS FOR ERP storage	Specification of storage Array in this section are couple of generation old. Request to replace this specification with storage array specification at C09 section 60 at page 109. This change would provide access to latest technology product available in the Industry along with uniformity in management.	The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to attain the desired solution which can easily integrate with infrastructure of Data Centre.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
107.	C40-Software Defined Data Centre (SDDC) for DC, DR & ROBO sites, 91.12 to 91.17 Software Defined Storage Page 242	Software Defined Storage	We understand Software defined storage is applicable for ROBO locations only. Kindly confirm.	As per sl 62.4 on page 119 and para 91 on page 239 of RFP, the SD storage will be required for all ROBO site and as well as DC, DRDC and NLDC.	<b>HPE</b>
108.	94.1, C43 - Rack Server, Compute, Page 252	(d) 1024 GB DDR4-2666 NVDIMM or higher	Persistent memory (PMEM) is latest technology innovation to provide alternate to NVDIMM. Request you to modify clause as "(d) 1024 GB NVDIMM/ PMEM or higher along with Min 256 GB DDR4 RDIMM"	The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to attain the desired solution.	<b>HPE</b>
109.	94.3, C43 - Rack Server, Network, Page 252	Addition	Network bandwidth requirement is not specified for the Rack Server. As ICG looking for maximum utilization of deployed infrastructure with best possible VM density request you to please include Dual port 25 Gbps Ether Network Adaptor with SFP and Dual Port 32 Gbps FC HBA.	The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to attain the desired solution.	<b>HPE</b>
110.	94.4, C43 - Rack Server, Other Software, Page 252	(a) Windows 2016 Server DC Edition or latest with SA	As Windows 2016 is end of sale request ICG to modify clause as ' "(a) Windows 2022 Server DC Edition or latest with SA"	The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to attain the desired solution.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
111.	3.9. Integration and Migration of Data / Page no 35	Migration of data in the new system is responsibility of the bidder. ICG along with bidder will jointly decide on what data will be migrated and will take the responsibility of collecting and making the data available in digitized form as per the format suggested by the bidder.	Kindly share the Types of Data and Total Size of Data to be Migrated.	Details of data migrations Will be shared post signing of the contract as mentioned at para 3.9 on page 35 of this RFP	HPE
112.	DETAILED BILL OF MATERIAL - DATA CENTRE/Page no 498	3 Container Management Platform - C04 -3 - Server	As per BOM, Container Management Platform is expected to run only on 3 Servers and Each Server 24 Cores x 2 Sockets as per Server Specification? Does this mean container platform will max run on 144 cores this includes Master and Worker nodes. Kindly correct our understanding, This will help to align Container Management Licenses?	The clause is self explanatory. Licenses are required for 3 servers only as mentioned in specification C-04 of RFP.	HPE
113.	DETAILED BILL OF MATERIAL - DATA CENTRE/Page no 498	SERVER & STORAGE	There is no Servers/Compute has been allocated to run Management Workload/Services (like Cloud, Container, Network Virtualization, DNS, LB etc). Is bidder expected to use Servers those are mentioned in Server BOM or provide separate/additional Servers to run Management Services?	The management component will run on the server asked in the RFP.	HPE
114.	TECHNICAL SPECIFICATIONS: NETWORK CONNECTIVITY & COMPONENTS / Page 258	100.1 Software-Defined WAN with micro-segmentation using virtual NGFW at all locations including Data Centre, DR DC & ROBO sites.	Do we have Internet Breakout and need of Micro-segmentation at the Robo Locations considering the ask of Virtual NGFW at the Robo Sites? Please suggest the use cases for the design asked	As per para 100.1 on page 255 & para 102.4 on page 256 of RFP, NGFW is required at ROBO sites and therefore, bidder has to comply with RFP requirements.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
115.	DETAILED BILL OF MATERIAL - DATA CENTRE / Page no 498	4 Windows Server 2019 Data Centre - C05 - 3 Server 5 Linux Ent. Server (Socket pair) -C06 - 8	Kindly confirm the QTY of OS Licenses. Total Count of Physical Server in DC is 39 (Blade-34 and Rack-5) whereas Count of OS Licenses is 11 (Windows -3 + Linux 8). OS License count is NOT matching with Physical Server Count. Kindly confirm your understanding. This is same applicable for DR and NLDC	The conditions at para 56 and 57 on page 104 of RFP are to be complied.	HPE
116.	247/ 93.17	Should be application aware and provide Full Proxy for protocols such as HTTP, HTTPS, FTP, SIP, DNS, Diameter, RADIUS etc.	Request to kindly amend the clause "Should be application aware and provide Full Proxy for protocols such as HTTP, HTTPS, FTP, SIP, DNS, RADIUS etc."  Diameter Protocol is generally used in Telco segment for AAA. If this protocol is required for Coast Guard, can you kindly let us know the use case. If this is not required, request you to kindly remove this protocol from this RFP.	Mentioned capability is required as part of solution. Bidder to bid as per RFP specifications.	HPE
117.	247/ 93.18	Should support inspection of SSL traffic for reverse proxy and forward proxy deployment. Should also support ICAP interface for integration with external security systems.	Request to kindly amend the clause "Should support inspection of SSL traffic for reverse proxy deployment. Should also support ICAP interface for integration with external security systems."  Requesting Coast Guard to share the use-case for forward proxy. If forward proxy is not a requirement, request you to kindly remove this from RFP	The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to provide comprehensive solution to meet RFP requirements and SLAs.	HPE
118.	247/ 93.19	Should support IoT Device authentication over SSL and MQTT Message parsing and MQTT load balancing.	Request to remove this clause.  Is there any IOT device authentication use-case. For our solution compliance request to remove this clause	Mentioned capability is required as part of solution. The conditions at para 93.19 on page 247 of RFP are to be complied.	HPE



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
119.	247/ 93.25	It should have capability to automatically analyses attacks like Brute Force and avail CAPTCHA on the fly to users to identify bot / scripted attacks	Kindly amend "It should have capability to automatically analyses attacks like Brute Force."  Presently we do not support CAPTCHA support	Mentioned capability is required as part of solution. Bidder to bid as per RFP specifications.	<b>HPE</b>
120.	248/ 93.27	It must be able to detect the presence of Remote Access Trojans (RATs) residing in the user's web browser.	Request to Remove this clause.  This is not a LB feature. Remote Access Trojans (RAT's) is related to Malware attack which is taken care by security device like Firewall. We support ICAP. If anybody is uploading files, it can be sent to 3rd party scanning / detection tools via ICAP protocol.	Mentioned capability is required as part of solution. Bidder to bid as per RFP specifications.	<b>HPE</b>
121.	248/ 93.28	It should perform comprehensive countermeasure to protect against zero day attack, Challenge – Response Mechanism, which should be able to detect and protect attacks in real time through inbuilt Captcha Mechanism	Kindly amend "It should perform comprehensive countermeasure to protect against zero day attack, Challenge – Response Mechanism, which should be able to detect and protect attacks in real time "  Presently we do not support CAPTCHA support	Mentioned capability is required as part of solution. Bidder to bid as per RFP specifications.	<b>HPE</b>
122.	248/ 93.29	It should encrypt the sensitive field in the application in real time as compared to being encrypted after a submit button or equivalent being pressed	Please elaborate on the requirement of this clause.  Request clarification		<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
123.	248/ 93.35	Should have a built-in tool to take a snapshot of the unit for troubleshooting and analysis purpose	Kindly elaborate requirement for this clause. Our solution is able to download the debug logs for troubleshooting. Is this what is required from this clause?  Request clarification		<b>HPE</b>
124.	248/ 95.36	Vendor should provide a service to upload this snapshot and get feedback on the health of the unit & missing Hotfixes and best practices	Our solution runs on hardened appliance. If there are any vulnerabilities, they are fixed in next releases. Our solution strives to ensure the highest level of security, adhering to rigorous testing and validation standards for our service engines and controllers. Kindly confirm if this meets the requirement of this clause  Kindly confirm	The Bidder(s) to comply to the clauses/ conditions at Para 95.36 on page 248 of RFP.	<b>HPE</b>
125.	249/ 8.0	OEM should be listed in Gartner leader quadrant for ADC for last 3 years consecutively	Kindly remove this clause  Gartner has not released Magic Quadrant since year 2016 for ADC's	Bidder to provide last available report.	<b>HPE</b>
126.	103/ 55.18	The Solution should be capable to determine optimal number of containers fits with the environment.	Kindly amend "The Solution should support to deploy optimal number of containers that fits with the environment based on available resources and discovery exercise."  The decision regarding number of containers required is based on the discovery exercise/analysis. The container platform doesn't have the capability to decide number of container required per environment.	Solution should be able to deploy optimal number of containers on available resources for containerized applications/ workload	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
127.	103/ 55.20	The solution should be capable of automatically keep application cluster up to date with the latest release version of container-orchestration system.	<p>Kindly amend "The solution should be capable of keeping Kubernetes application cluster up to date with the latest release version of container-orchestration system with defined commands and process."</p> <p>The Kubernetes cluster can be easily upgraded with a single command or can be automated with the help of additional IAC tools. But in general the container platform doesn't upgrade the version automatically, as it requires impact analysis beforehand.</p>	Solution should have defined way to keep the Kubernetes clusters up to date on latest release version	<b>HPE</b>
128.	103/ 55.23	Solution should provide rest API to that exposes operations for managing a cluster, security and user management, application deployments, image and source builds, HTTP(s) routing and project management.	<p>Kindly amend "Solution should provide rest API to that exposes operations for managing a cluster."</p> <p>Security, user management, application deployment, https routing and project management are not something a container platform should offer. Can you please provide more details around the same.</p>	Rest API should be available with solution to expose all operations for managing cluster	<b>HPE</b>
129.	103/ 55.24	The solution should provide an integrated networking solution (CNI implementations) as well as provide advance turnkey container networking services at Layer 2 through 7 such as DNAT/SNAT, DHCP, Load Balancers (L4 and L7) and firewall in addition to switching and routing (North-South and East-West	<p>Kindly amend "The solution should provide an integrated networking solution (CNI implementations) as well as provide advance turnkey container networking services at Layer 2 through 7 such as DNAT/SNAT, DHCP in addition to switching and routing (North-South and East-West"</p> <p>Load balancer and Firewall are never been part of container platform. It is a separate products, please provide more information in this regards.</p>	Solution should integrate with Load Balancer and Firewall asked in RFP	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
130.	86/52	The solution should have capability to automate the bring-up process of the entire software platform, including deployment of infrastructure VMs, creation of the management cluster, configuration of VLANs, configuration of virtual storage, virtual network, and cluster creation and provisioning.	Kindly amend "The solution should have capability to automate the bring-up of the service including deployment of infrastructure VMs,c configuration of network and security, configuration of storage with VMs etc"  We understand that requirement is to automate the provisioning and day. 2 operations	Bidder to provide the system with capability to automate the bring-up process of the entire software platform, including deployment of infrastructure VMs, creation of the management cluster, configuration of VLANs, configuration of virtual storage, virtual network, and cluster creation and provisioning.	<b>HPE</b>
131.	104/ 55.16	Container Platform should integrate with Cloud Management Portal providing visibility into VMs and Containers with automated policy management.	Please clarify the requirement of automated policy management  Request clarification	Solution should support to enable identity and access management and configure policies for role based access to container platform	<b>HPE</b>
132.	243/ 91.41	Should able to monitor Application, Middleware and Database for leading enterprise software systems	Please move it to C22 enterprise Mgmt Solution Suited  EMS suite has been asked in RFP, this should be part of EMS suite section	Requirement to be met by overall solution proposed by bidder	<b>HPE</b>
133.	243/ 91.43	Should natively support application monitoring for Oracle Fusion Middleware, Oracle Databased, Cisco CUCM for Enterprise Unified Communication and MS Exchange.	Please move it to C22 enterprise Mgmt Solution Suited  EMS suite has been asked in RFP, this should be part of EMS suite section	Requirement to be met by overall solution proposed by bidder	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
134.	94/ 52	Cloud Billing	We understand that requirement is for show back/ metering of resources, however no billing software is required  Request clarification	RFP requirement to be met for show back/ metering of private cloud resources	<b>HPE</b>
135.	496	Bill of Material	No separate Load balancer asked for Internet zone separately. Please clarify  Request clarification	The conditions at Appendix-Q on page 495 of RFP are to be complied. However bidder can provide best suitable solution to meet the requirements	<b>HPE</b>
136.	184/ 77.2	Proposed Firewall should not be proprietary ASIC based in nature & should be open architecture based on multi-core CPU's to protect & scale against dynamic latest security threats.	Please modify this clause to "The proposed firewall should be ASIC/ <b>Non ASIC</b> based solution & should be open architecture based on multi-core CPU's to protect & scale against dynamic latest security threats  This clause is restrictive and discriminatory as every OEM solution offering comes with purpose build hardware and software architecture to deliver network security / inspection with best performance. Many security OEMs utilizes ASIC design with required hardware resources like RAM, flash etc. to get intended specific outcomes, rather than for general purpose use. Hence request to delete or modify this clause as it restricts Gartner leading OEMs to participate in the bid.	The clause is not discriminatory, as it doesn't include any specific model or make. Bidder to comply with RFP requirements as mentioned at para 77 on page 183 to 191 of RFP.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
137.	184/ 77.6	Should support performance as per the annexure for NGFW (FW, AVC, anti-bot, identity awareness, anti-malware, anti-spam, zero phishing and IPS) real-world/ production/ Enterprise Testing performance	<p>Please modify this clause to “ Should support performance as per the annexure for NGFW (FW, AVC, and IPS) real-world/ production/ Enterprise Testing performance”</p> <p>The NGFW performance comprises of FW+ AVC and IPS engines only. Antimalware, antispam etc are not part of NGFW features. Hence request to please modify this clause for more participation</p>	The clause is not discriminatory, as it doesn't include any specific model or make. Bidder to comply with RFP requirements as mentioned at para 77 on page 183 to 191 of RFP.	<b>HPE</b>
138.	184/ 77.11	Should support more than 8000 (excluding custom application signatures) distinct application signature as application detection mechanism to optimize security effectiveness and should be able to create 40 or more application categories for operational efficiency	<p>Please modify this clause to "Should support more than <b>4000</b> (excluding custom application signatures) distinct application signature as application detection mechanism to optimize security effectiveness and should be able to create multiple categories or profiles for operational efficiency"</p> <p>This clause is restrictive and discriminatory as every OEM has their own architecture and based on that their application signature count would vary. Most of the signature are common across multiple OS or one signature can prevent both client and server. So the number of signatures are optimized by every OEM and may differ. This point is specific to one OEM hence request to modify allowing more participation.</p>	The clause is not discriminatory, as it doesn't include any specific model or make. Bidder to comply with RFP requirements as mentioned at para 77 on page 183 to 191 of RFP.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
139.	184/ 77.12	Should support more than 12,000 (excluding custom signatures) IPS signatures or more. Should support capability to configure correlation rule where multiple rules/ event can be combined together for better efficacy	<p>Please modify this clause to "Should support more than <b>10,000</b> (excluding custom signatures) IPS signatures or more. Should support capability to configure correlation rule where multiple rules/ event can be combined together for better efficacy"</p> <p>This clause is restrictive and discriminatory as every OEM has their own architecture and based on that their IPS signature count would vary. Most of the signature are common across multiple OS or one signature can prevent both client and server. So the number of signatures are optimized by every OEM and may differ. The IPS security effectiveness should be considered instead of signature count. It is suggested to ask for more than 99% security effectiveness from NSS NGFW report and bidders to submit the report with proposal</p>	The clause is not discriminatory, as it doesn't include any specific model or make. Bidder to comply with RFP requirements as mentioned at para 77 on page 183 to 191 of RFP.	<b>HPE</b>
140.	185/ 77.14	Should support minimum 5 Virtual Systems from day 1 and scalable upto 50 virtual system without any additional hardware	<p>Please modify this clause to :Should support minimum 5 Virtual Systems from day 1 and scalable upto 50 virtual system without any additional hardware for Intranet Perimeter Firewall and scalable to 10 virtual firewalls for Perimeter internet firewall"</p> <p>Adding more virtual instances will load the BOM and commercials as Virtual firewalls on internet zone and may not be used as all the virtualization is more important for segmentation approach only in Intranet / Internal zone</p>	The clause is not discriminatory, as it doesn't include any specific model or make. Bidder to comply with RFP requirements as mentioned at para 77 on page 183 to 191 of RFP.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
141.	187/ 77.27	The hardware based management platform must provide a highly customizable dashboard. Solution must be able to segment the rule base in a sub-policy structure in which only relevant traffic is being forwarded to relevant policy segment for an autonomous system	Please modify this clause to "The hardware based management platform must provide a highly customizable dashboard. Solution must be able to segment the rule base in a sub-policy/ <b>multi-policy structure</b> in which only relevant traffic is being forwarded to relevant policy segment for an autonomous system"  Every OEM has their own architecture and design for policy/ Sub-policy/Multi-policy structure. Kindly allow multi-policy so all OEM comply.	The clause is not discriminatory, as it doesn't include any specific model or make. Bidder to comply with RFP requirements as mentioned at para 77 on page 183 to 191 of RFP.	<b>HPE</b>
142.	187/ 77.30	Should support troubleshooting techniques like Packet tracer and capture.	Please modify this clause to "Should support troubleshooting techniques like <b>Packet tracer or packet capture</b> ".  <b>Packet tracer is specific to single OEM and restrict the larger OEM participation. Hence, request for change for broader participation.</b>	Packet tracing and capturing is the key requirement of solution. Hence, bidder is required to provide the solution as per requirements as mentioned at para 77 on page 183 to 191 of RFP.	<b>HPE</b>



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
143.	188/ 77.39	Throughput (NGFW (FW,AVC and IPS) - 25Gbps Throughput threat prevention with Anti malware, Antibot , zero phishing , Anti-Spam - 15 Gbps	Please modify this clause to " "Throughput (NGFW (FW,AVC and IPS) - <b>34 Gbps</b> Throughput threat prevention with FW,AVC, Antimalware - <b>33 Gbps on real-world/ production/ Enterprise Testing performance</b> "  Considering 8 x 10G interfaces asked that means the Firewall should be able to handle up to 80Gbps of traffic hence the Threat prevention throughput of 15 Gbps is not inline to the Firewall performance asked. For such a high grade critical setup where multiple zones will be created and scalability to 50 virtual FWs, the minimum threat prevention throughput should not be less than 30 Gbps hence requesting to please revise the clause.	The Bidder(s) to comply to the clauses/ conditions at Para 77 on page 183 to 191 of RFP.	HPE
144.	189/ 77.40	Interfaces - 8 X 10G SFP+	Considering scalability to 50 Virtual Firewall creation in future, the number of interfaces should be <b>at least 16 x 1G, 14x10G and minimum 6 x 40/ 100G ports.</b>  Number of interfaces are very less and will not be able to work when all Virtual Firewalls are configured hence it is important to consider more number of ports for future scalability	The Bidder(s) to comply to the clauses/ conditions at Para 77 on page 183 to 191 of RFP	HPE
145.	189/ 77.41	Concurrent Sessions- 30 Million or more	Please modify this clause to " "Concurrent Sessions- <b>60 Million</b> or more"  Since huge number of user and branches are going to access the CGHQ data centre please increase the Concurrent Sessions 60 Million		HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
146.	189/ 77.42	Connections/Second - Minimum 400K	Please modify this clause to "Connections/second - <b>800K</b> or more"  Since huge number of user and branches are going to access the CGHQ data centre please increase the New sessions per second to 800K.		HPE
147.	189/ 77.45	Storage, Memory, RU Min. of 128 GB of RAM, SSD of 2x480GB Storage in RAID1. Should not consume more than 3 RU.	Request to please remove the memory (RAM) requirement as this is giving edge to single OEM.  The Firewall memory handles the concurrent sessions. Every OEM may have their customized hardware with less / more memory. Kindly delete the RAM capacity or ask for sufficient RAM to handle the concurrent sessions as asked in the RFP		HPE
148.	189/ 77.46	Malware Defence Including protection from zero phishing by injecting java script in user browser File scrubbing	Request to please modify as "Malware Defence Including protection from zero phishing by injecting java script in user browser File scrubbing or should be able to block web plug-ins such as ActiveX, Java Applet, and Cookies."  Requesting to delete this clause as this is specific to one OEM or request to modify more participation	File scrubbing is the requirement of the solution by injecting java script. Bidder to comply with RFP requirements as mentioned at para 77 on page 183 to 191 of RFP.	HPE
149.	189/ 77.47	Throughput (NGFW(FW,AVC and IPS) - 5 Gbps	Please modify this clause to " Throughput (NGFW(FW,AVC and IPS) - <b>10 Gbps</b> "  Kindly increase the throughput for Internet Firewall in order to offer scalability for future high bandwidth requirements	The Bidder(s) to comply to the clauses/ conditions at Para 77 on page 183 to 191 of RFP.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
150.	189/ 77.50	Connections/Second 100K or more	Please modify this clause to " "Connections/second - <b>500K</b> or more"  Since huge number of user and branches are going to access the CGHQ data centre please increase the New sessions per second to 500K.		<b>HPE</b>
151.	190/77.55	Storage, Memory, RU Min. of 32 GB of RAM, SSD 200GB of Storage in RAID1. Should not consume more than 1 RU	Request to please remove the memory (RAM) requirement as this is giving edge to single OEM.  The Firewall memory handles the concurrent sessions. Every OEM may have their cutomised hardware with less / more memory. Kindly delete the RAM capacity or ask for sufficient RAM to handle the concurrent sessions as asked in the RFP		<b>HPE</b>
152.	190/ 77.56	Industry Certification EAL4+ / NDPP	Request to please modify this clause to " "Industry Certification EAL4+ / NDPP" <b>or NSS or ICSA or equivalent</b> <b>NSS Labs is very relevant certification as it provides the security effectiveness of the NGFW solution</b>		<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
153.	190/ 77.57	The hardware solution must provide the ability to Protect against zero-day & unknown malware attacks before static signature protections have been created: Real-Time Prevention-unknown malware patient-0 in web browsing without any external integration or client Real-Time Prevention-unknown malware patient-0 in email without any external integration or client	Please modify this clause to "The hardware solution must provide the ability to Protect against zero-day & unknown malware attacks"  Specific to single OEM please modify the clause to allow more participation	Protection against zero-day & unknown malware attacks are the basic requirement of NGFW solutions. Hence, Bidder to comply with RFP requirements as mentioned at para 77 on page 183 to 191 of RFP.	<b>HPE</b>
154.	190/ 77.58	The hardware solution must be custom built Anti-APT Appliance should be inline solution (not out-of-line) and integrate with network perimeter security component devices like firewall/UTM and IDS/IPS	Since APT solution is only asked in Firewall / UTM and there is no IPS/IDS hence request to please remove IPS/IDS word.	The Bidder(s) to comply to the clauses/ conditions at Para 77 on page 183 to 191 of RFP.	<b>HPE</b>
155.	190/ 77.60	The solution must provide both onsite and cloud based implementations	Since Anti-APT solution is asked in the form of Hardware, hence we assume that this will be deployed on premise. Please clarify	Affirmative	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
156.	191/ 77.65	Offered solution must support zero trust threat prevention security policy to address the unknown day 0 attacks by remove exploitable content, including active content and embedded objects for both email and web traffic integrated from day one. The solution should be able to reconstruct files with known safe elements.	Request to please modify this clause to "Offered solution must support zero trust threat prevention security policy to address the unknown day 0 attacks by remove exploitable content, including active content and embedded objects from traffic integrated from day one. The solution should be able to reconstruct files with known safe elements. Request to please remove the email traffic as there is no mention of email security solution asked in RFP. For email security solution, number of mailboxes, users, and emails per day data is required in order to factor email security solution	The Bidder(s) to comply to the clauses/ conditions at Para 77 on page 183 to 191 of RFP.	<b>HPE</b>
157.	191/ 77.66	The solution must provide the ability to be centrally managed.	Request to please modify this clause to" The solution must provide the ability manage through its own GUI or can be centrally managed" Specific to single OEM hence please modify the clause to allow more participation	Centrally managed portal will be required in the NGFW solutions. Hence, Bidder to comply with RFP requirements as mentioned at para 77 on page 183 to 191 of RFP.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
158.	191/ 77.68	<p>Unique files per hour: 4000 Form Factor: 1U Minimum CPU cores: 2 x 8 physical, 24 virtual Virtual Machines: 24 Storage: 1x2000 GB SSD Memory: 128 GB Ports: 2x 10/100/1000 RJ45 and 2x with Included 10GbE SR transceivers for future expansion.</p>	<p>Request to please modify the clause to "Virtual Machines - 24, <b>Storage 2 x 2TB in RAID</b>, Ports 2 x 1G and 2 x 10G with SR transceivers for future expansion</p> <p>Request to please remove RAM and CPU capacity as this is specific to single OEM. Every vendor customise its own hardware for running multiple VMs and can provide 24VMs irrespective of less or high memory / cpu capacity. Since Anti-APT hardware is going to be a single appliance, it is important that the storage should be asked in RAID. RAID Configuration is an important and must feature in Anti-APT solution to avoid any single point of failure due to disk malfunctioning/failure being a single appliance solution. Hence request your acceptance on this feature.</p>	<p>The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to provide comprehensive solution to meet RFP requirements.</p>	<b>HPE</b>
159.	212/ 82.1	<p><b>General</b> - The Solution should provide a highly powerful and granular access control solution that combines authentication, authorization, and accounting (AAA) and TACACS of administrative users for the devices like switches, routers etc</p>	<p>Please modify this clause as "The Solution should provide a highly powerful and granular access control solution that combines authentication, authorization, and accounting (AAA) and TACACS/ <b>TACACS+</b> of administrative users for the devices like switches, routers etc"</p> <p>TACACS+ has replaced TACACS and provides benefit by separating the functions of Authentication, Authorization and Accounting and by encrypting all traffic.</p>	<p>The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to provide comprehensive solution to meet RFP requirements and SLAs</p>	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
160.	213	<b>TACACS -</b> Solution should be scalable enough to support 200 Network Devices	Please modify this clause to " TACACS / <b>TACACS+</b> Solution should be scalable enough to support 200 Network Devices"  TACACS+ has replaced TACACS and provides benefit by separating the functions of Authentication, Authorization and Accounting and by encrypting all traffic.	The specifications stated at reference clause are minimum and are to be mandatorily complied with. However, bidders at liberty to include higher specification/ optimize suitably to provide comprehensive solution to meet RFP requirements.	<b>HPE</b>
161.	Clause 4 , Special features of the RFP, Page 5	The functional requirements and implementation of the private cloud for ICG will be fully integrated with the supplied and existing hardware / software i.e. integration with manager of the hypervisor, Software Defined Network and storage etc.	Kindly suggest if Indian Coast Guard is using any SIEM product in its existing IT Infrastructure. Is the existing SIEM required to be integrated with new SIEM and SOAR. Kindly suggest.	Requirement is capability of proposed solution to be able to ingest data/ events from any SIEM technology. The technology solutions must be able to integrate with any technology, no platform dependency. Hence, Bidder to provide solution as per the requirement given at para 76 SI C-25 on page 174 to 183 of RFP.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
162.	General Requirements Serial No76.1, Page 176	The proposed solution must include Log Management, Next Gen SIEM, Security Analytics, Big Data Analytics with necessary automation capabilities from a single OEM. The solution index gigabytes of data per day on commodity hardware and provide multi-tier horizontal scalable architecture without the requirement of a HDFS file system. The solution should be built on software that can be deployed on physical or virtual infrastructure. The proposed solution should have physical or logical separation of the collection module, logging module and analysis / correlation module with the ability for adding more devices, locations, applications, etc. The proposed solution must be able to collect, capture, categorize, filter, index, search event data, logs and alerts in real-time or near-real-time from any of the software, hardware, devices or appliances that produce such information. Proposed solution should not be built on any opensource components and all components should be proprietary to the OEM.	We would kindly request to change this clause as per below  "The proposed solution must include Log Management, Next Gen SIEM, Security Analytics, Big Data Analytics with necessary automation capabilities. The solution index gigabytes of data per day on commodity hardware and provide multi-tier horizontal scalable architecture without the requirement of a HDFS file system. The solution should be built on software that can be deployed on physical or virtual infrastructure. The proposed solution should have physical or logical separation of the collection module, logging module and analysis / correlation module with the ability for adding more devices, locations, applications, etc. The proposed solution must be able to collect, capture, categorize, filter, index, search event data, logs and alerts in real-time or near-real-time from any of the software, hardware, devices or appliances that produce such information. Proposed solution should not be built on any opensource components and all components should be proprietary to the OEM. "	SIEM is an important tool for the cyber security, requisite functionalities are critical in the tool. Bidder can use multiple tool or product to provide the desired functionality in the SIEM	<b>HPE</b>



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
163.	General Requirements Serial No.76.2, Page 177	Proposed solution have the ability to natively monitor layer 7 traffic and perform deep packet inspection (DPI). Solution should support full packet capture and should have the ability where download packets can be restricted based on user/group. Proposed solution should not use any SQL or Flat files or RDBMS database for storing logs and events.	Since, Deep Packet Inspection (DPI) capability is required, we would kindly request to provide throughput for performing Deep Packet Capture.	Solution must collect all flows and packets. The solution should have the capability to collect netflow traffic either natively or via promiscuous mode. It should provide capabilities to trigger packet captures if required by the analyst to perform deep analysis. SIEM vendor may size it inline with Data ingestion using best practices. Bidder(s) to provide workable solution as per the requirement given at para 76 SI C-25 on page 174 to183 of RFP.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
164.	General Requirements Serial No.76.9, Page 177	Machine learning should be embedded across the platform(SIEM, SBDL). It should empower every user in the SOC with ML. Security analyst to become citizen data scientist i.e. used predefined ML algorithms to detect & predict threats, threat hunters to build their own ML models with steps to build, train and implement model and data scientists should be able to integrate advanced ML frameworks.	We would kindly request to change this clause as per below  "Machine learning should be embedded across the platform(SIEM, SBDL). It should empower every user in the SOC with ML. Security analyst to become citizen data scientist i.e. used predefined ML algorithms to detect & predict threats, threat hunters to build use existing models/build their own ML models with steps to build, train and implement model and data scientists should be able to integrate advanced ML frameworks. "	Bidder to comply with RFP specifications. Solution should be able to Integrate advanced ML frameworks which will give flexibility and help achieve the outcome. Also, SIEM with advance ML capabilities which enable the user to import custom models or import any additional open source ML models. As per RFP, embedded machine learning technology to meet requirement of advanced ML Frameworks, use cases and to also mitigate new risks and meet everchanging environment requirements today as well in future. OEM/SI May bring in multiple technologies or tools to give desired outcome. ML is common technology these days in any next gen. platform.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
165.	Correlation & Dashboarding Serial No.76.11 Page 178	The proposed solution must support the data replication natively without relying on other third-party replication technologies on the operating system or storage level with near zero RPO and RTO. Like big data platforms solution should also allow admin to decide on replication factor within DC and replication factor for DR. DR should always be active and should be updated with artifacts for any incident analyst is working on. The proposed solution should be able to receive, ingest and index structured or unstructured data without schema or normalization and no events should be dropped if log source changes the format of log data. Unparsed events should be usable for co-relation and machine learning models.	We would kindly request to change this clause as per below:-  "The proposed solution must support the data replication natively without relying on other third-party replication technologies on the operating system or storage level with near zero RPO and RTO. Like big data platforms solution should also allow admin to decide on replication factor within DC and replication factor for DR. DR should always be active and should be updated with artifacts for any incident analyst is working on. The proposed solution should be able to receive, ingest and index structured or unstructured data without schema or normalization and no events should be dropped if log source changes the format of log data. Unparsed/parsed events should be usable for co-relation and machine learning models."	Functionality require to monitor unparsed events either to ensure no attack/ anomaly. Bidder to provide workable solution as per the requirement given at para 76 SI C-25 on page 174 to183 of RFP. Bidder can provide more functionality against this specification.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
166.	Correlation & Dashboarding Serial No.76.13 Page 178	Next Gen Big Data Analytics platform should be sized to ingest data of 1Tb/day in the form of logs, events, metrics and traces. Security monitoring solution should be sized for sustained data of 500 Gb/day at all layers but should be able to handle peak of 1 Tb/day at all layers without dropping events or queuing events. There should be no limitation on the number of servers, users or log sources integrated with the solution and it should not have an impact on the license in case servers, users or data source count changes, till the time data ingestion size remains 500 GB/day.	Kindly suggest the sizing required for Online and Offline (Archival) for Log retention.	Bidder to provide workable solution as per the requirements given at para 76 SI C-25 on page 174 to 183 of RFP. However, bidder must comply with CERT-IN guidelines for storing of logs for 90 Days online and 180 days offline.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
167.	Incident Management Serial No.76.32 Page 182	The proposed solution must provide an interface that allows the same query string to be configured as an alert, report or a dashboard panel. Same query string should also be capable of being used for SBDL & SIEM. Solution must provide a field extraction wizard that is used to create parsers and allow testing and validation with existing live or historical data within the system from the web interface. Old data should be parsed with new parser without re ingesting or reindexing the data.	We would kindly request to change this clause as per below:-  "The proposed solution must provide an interface that allows query string to be configured as an alert, report or a dashboard panel. Similar query string should also be capable of being used for SBDL & SIEM. Solution must provide a field extraction wizard that is used to create parsers and allow testing and validation with existing live or historical data within the system from the web interface. Old data should be parsed with new parser with/without ingesting or reindexing the data."	Bidder to provide workable solution as per the requirement given at para 76 SI C-25 on page 174 to 183 of RFP.	<b>HPE</b>
168.	Machine Learning & Security Analytics Serial No.76.33, Page 182	The proposed solution must provide GUI that can easily help to build, built-in or custom machine learning models using the guided experience and should be able to integrate with generic machine learning tools.	We would kindly request to change this clause as per below:- "The proposed solution must provide GUI that can easily help to build, built-in or custom machine learning models/detection rules using the guided experience and should be able to augment the detection done using pre-built machine learning with alert rules."	Bidder to provide workable solution as per the requirement given at para 76 SI C-25 on page 174 to 183 of RFP. Bidder must provide latest and workable solution.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
169.	Machine Learning & Security Analytics Serial No.76.34, Page 182	The proposed solution should have machine learning platform embedded in the solution that can easily help to build, built-in or create unlimited custom machine learning models using the pre-defined sequence and should be able to integrate with a collection of NLP and classical machine learning libraries, generic machine learning tools.	We would kindly request to change this clause as per below:-  "The proposed solution should have machine learning platform embedded in the solution that can easily help to build, built-in or create unlimited custom machine learning models/detection rules. There should not be any limitation in writing detection rules. An Analyst can write unlimited detection rules without any restriction on the license to detect threat anomalies. "	Bidder to provide workable solution as per the requirements given at para 76 Sl C-25 on page 174 to 183 of RFP. Bidder must provide latest and workable solution.	<b>HPE</b>
170.	Machine Learning & Security Analytics Serial No.76.35, Page 182	The proposed solution machine learning capabilities must allow addition of custom machine learning algorithms from popular open source libraries.	We would kindly request to change this clause as per below:-  The proposed solution machine learning capabilities must allow addition of custom machine learning algorithms/alert detection rules from popular open source libraries by supporting writing similar logic in the solution.	Bidder to provide workable solution as per the requirements given at para 76 Sl C-25 on page 174 to 183 of RFP. Bidder must provide latest and workable solution.	<b>HPE</b>
171.	Monitor, Alert & Reporting Serial No.76.42, Page 184	<ul style="list-style-type: none"> <li>The proposed solution must be able to support predictive analytics to predict future values of single or multi-valued fields. This will help security analytics to predict the attack patterns or specific attacks using multiple fields in the alerts or logs</li> </ul>	Predictive analytics is based on the behavioral pattern and activity which is not native to SIEM technology across the industry. We would kindly request to delete this clause for wider participation.	Bidder to provide workable solution as per the requirements given at para 76 Sl C-25 on page 174 to 183 of RFP. Bidder must provide latest and workable solution by multiple tools integrated to meet the requirement.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
172.	Monitor, Alert & Reporting Serial No.76.42, Page 184	a. Uses historical data as a baseline to forecast future patterns, thresholds and tolerances	Predictive analytics is based on the behavioral pattern and activity which is not native to SIEM technology across the industry. We would kindly request to delete this clause for wider participation.	Bidder to provide workable solution as per the requirements given at para 76 Sl C-25 on page 174 to 183 of RFP. Bidder must provide latest and workable solution by multiple tools integrated to meet the requirement.	HPE
173.	Monitor, Alert & Reporting Serial No.76.42, Page 184	b. Ability to identify the future needs of critical system resources, no prior knowledge in predictive modeling algorithms required to use this functionality, and the ability to easily interpret and customize the results	Predictive analytics is based on the behavioral pattern and activity which is not native to SIEM technology across the industry. We would kindly request to delete this clause for wider participation.	Bidder to provide workable solution as per the requirements given at para 76 Sl C-25 on page 174 to 183 of RFP. Bidder must provide latest and workable solution by multiple tools integrated to meet the requirement.	HPE
174.	Clause 76. SIEM & SOAR, General Requirement S.No. 76.2	Proposed solution have the ability to natively monitor layer 7 traffic and perform deep packet inspection (DPI). Solution should support full packet capture and should have the ability where download packets can be restricted based on user/group	Since department has asked for dedicated packet capture requirement in the other section of the RFP. Request department to delete this clause as SIEM & packet capture are two different technologies.	Repeated query as Sl. 215 & 216 above.	HPE
175.	Clause 76. SIEM & SOAR, General Requirement S.No. 76.9	Machine learning should be embedded across the platform (SIEM, SBDL).	Since department has asked for Machine Learning capabilities in the solution. Does it mean that Solution should natively have ML capabilities and should not have separate engine/compute requirements for running ML models. Please confirm if our understanding is correct.		HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
176.	Clause 76. SIEM & SOAR, Monitoring & Management S.No. 76.17	Should be managed and monitored from SIEM unified console for Correlation, Alerting and Administration. Proposed solution should be provide a single console view where we can see all data whether metric or log event data and have a capability to correlate between the data sets.	Please clarify whether customer wants to do all kind correlation between data sets from the SIEM console itself.	Bidder to provide solution as per the requirements given at para 76 SI C-25 on page 174 to 183 of RFP.	<b>HPE</b>
177.	Clause 76. SIEM & SOAR, Monitoring & Management S.No. 76.19	Proposed solution must be able to create alerts to notify about suspect activities, allowing actions like: enriching data, sending email, sending information to a syslog and exporting a PCAP file that may be accessed via CIFS/SMB/NFS and via dashboard. Solution should provide the ability to choose between capturing all packets and selective packet capture to lower storage requirements	Since department has asked for dedicated packet capture requirement in the other section of the RFP. Request department to delete this clause as SIEM & packet capture are two different technologies.	Bidder to provide solution as per the requirements given at para 76 SI C-25 on page 174 to 183 of RFP.	<b>HPE</b>
178.	Clause 76. SIEM & SOAR, Monitoring & Management S.No. 76.23	The solution must dynamically learn behavioral norms and identify and report on changes as they occur by baselining the the customer environment and monitoring for changes from a known normal state.	Please clarify whether customer also wants an UEBA solution.	Bidder to provide solution as per the requirements given at para 76 SI C-25 on page 174 to 183 of RFP.	<b>HPE</b>



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
179.	Clause 76. SIEM & SOAR, Monitoring & Management S.No. 76.26	Solution must be able to analyze captured traffic and PCAP files simultaneously.	Since department has asked for dedicated packet capture requirement in the other section of the RFP. Request department to delete this clause as SIEM & packet capture are two different technologies.	Bidder to provide solution as per the requirements given at para 76 SI C-25 on page 174 to 183 of RFP.	HPE
180.	Clause 76. SIEM & SOAR, SOAR S.No. 76.41	The proposed solution must have a orchestrator ability to direct and oversee all activities from beginning to end with 2 user license with unlimited actions. Proposed solution orchestrator must be able to ingest security data from any source and in any format.	In the current requirements of SOAR, department has no where mention the requirement of minimum playbooks and automated action they're looking for in SOAR tools. Hence we suggest department to include the suggestive requirement in the SOAR Section. Proposed SOAR solution should have more than 100 OOTB playbooks and support integration more than 300 different OEM products. It should also support more than 2000+ automated actions.	Bidder to provide solution as per the requirements given at para 76 SI C-25 on page 174 to 183 of RFP.	HPE
181.	Clause 73, C22 - Enterprise Management Suite, Application Monitoring, S.No 73.60	The solution shall proactively monitor all user transactions for any web application hosted; detect failed transactions; gather evidence necessary for triage and diagnosis of problems that affect user experiences and prevent completion of critical business processes. (Application Monitoring)	Request department to remove the requirement of Application Monitoring from EMS section as APM is dedicated technologies for Application Monitoring and APM vendors are usually different from the EMS vendors. Nor all the EMS vendors have APM tool in their portfolio. Hence it'll limit the OEM participation.	The bidder to comply to the conditions/ requirements at para 73.60 on page 154 of RFP.	HPE
182.	Clause 73, C22 - Enterprise Management Suite, Application Monitoring, S.No 73.73	The solution shall determine if the cause of performance issues is inside the application, in connected back-end systems or at the network layer.	Request department to remove the requirement of Application Monitoring from EMS section as APM is dedicated technologies for Application Monitoring and APM vendors are usually different from the EMS vendors. Nor all the EMS vendors have APM tool in their portfolio. Hence it'll limit the OEM participation.	The bidder to comply to the conditions/ requirements at para 73.73 on page 156 of RFP.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
183.	Clause 73, C22 - Enterprise Management Suite, Application Monitoring, S.No 73.74	The solution shall be able to obtain request response times based on different call parameters.	Request department to remove the requirement of Application Monitoring from EMS section as APM is dedicated technologies for Application Monitoring and APM vendors are usually different from the EMS vendors. Nor all the EMS vendors have APM tool in their portfolio. Hence it'll limit the OEM participation.	The bidder to comply to the conditions/ requirements at para 73.74 on page 156 of RFP.	<b>HPE</b>
184.	Clause 73, C22 - Enterprise Management Suite, Application Monitoring, S.No 73.75	The solution shall be able to correlate Application changes (code and configuration files) with change in Application performance.	Request department to remove the requirement of Application Monitoring from EMS section as APM is dedicated technologies for Application Monitoring and APM vendors are usually different from the EMS vendors. Nor all the EMS vendors have APM tool in their portfolio. Hence it'll limit the OEM participation.	The bidder to comply to the conditions/ requirements at para 73.75 on page 156 of RFP.	<b>HPE</b>
185.	Clause 73, C22 - Enterprise Management Suite, Application Monitoring, S.No 73.76	The solution shall be able to limit access to data by user roles e.g. Data for an application should be visible only to the application's owners	Request department to remove the requirement of Application Monitoring from EMS section as APM is dedicated technologies for Application Monitoring and APM vendors are usually different from the EMS vendors. Nor all the EMS vendors have APM tool in their portfolio. Hence it'll limit the OEM participation.	The bidder to comply to the conditions/ requirements at para 73.76 on page 156 of RFP.	<b>HPE</b>
186.	Clause 73, C22 - Enterprise Management Suite, Application Monitoring, S.No 73.77	The solution shall give visibility into end user experience for various transactions without the need to install agents on end user desktops.	Request department to remove the requirement of Application Monitoring from EMS section as APM is dedicated technologies for Application Monitoring and APM vendors are usually different from the EMS vendors. Nor all the EMS vendors have APM tool in their portfolio. Hence it'll limit the OEM participation.	The bidder to comply to the conditions/ requirements at para 73.77 on page 156 of RFP.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
187.	Clause 73, C22 - Enterprise Management Suite, Application Monitoring, S.No 73.78	The solution shall act as a passive listener on the network thus inducing zero overhead on the network and application layer particularly during peak loads.	Request department to remove the requirement of Application Monitoring from EMS section as APM is dedicated technologies for Application Monitoring and APM vendors are usually different from the EMS vendors. Nor all the EMS vendors have APM tool in their portfolio. Hence it'll limit the OEM participation.	The bidder to comply to the conditions/ requirements at para 73.78 on page 156 of RFP.	<b>HPE</b>
188.	Clause 73, C22 - Enterprise Management Suite, Application Monitoring, S.No 73.79	The solution shall be able to detect user impacting defects and anomalies and reports them in real-time such as in case of a Slow Response Time, Partial response, Missing component within transaction, HTTP error codes, web application errors etc.	Request department to remove the requirement of Application Monitoring from EMS section as APM is dedicated technologies for Application Monitoring and APM vendors are usually different from the EMS vendors. Nor all the EMS vendors have APM tool in their portfolio. Hence it'll limit the OEM participation.	The bidder to comply to the conditions/ requirements at para 73.79 on page 156 of RFP	<b>HPE</b>
189.	Clause 73, C22 - Enterprise Management Suite, Application Monitoring, S.No 73.80	The solution shall be able to provide trend analysis reports and compare the user experience over time by identifying transactions whose performance or count has deteriorated over time.	Request department to remove the requirement of Application Monitoring from EMS section as APM is dedicated technologies for Application Monitoring and APM vendors are usually different from the EMS vendors. Nor all the EMS vendors have APM tool in their portfolio. Hence it'll limit the OEM participation.	The bidder to comply to the conditions/ requirements at para 73.80 on page 157 of RFP	<b>HPE</b>
190.	Clause 73, C22 - Enterprise Management Suite, Application Monitoring, S.No 73.81	The solution should be made available in a High Availability setup & should be able to stably support at least 12 applications with possibility for adding more apps in the future based on the requirements.	Request department to remove the requirement of Application Monitoring from EMS section as APM is dedicated technologies for Application Monitoring and APM vendors are usually different from the EMS vendors. Nor all the EMS vendors have APM tool in their portfolio. Hence it'll limit the OEM participation.	The bidder to comply to the conditions/ requirements at para 73.81 on page 157 of RFP	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
191.	Clause 73, C22 - Enterprise Management Suite	New Suggestion	The service view can be configured in tile or tree view and allows further drill down to more detailed information to investigate services with poor health scores.	The bidder to comply to the conditions/ requirements at para 73 on page 145. However, bidder can propose latest solution.	<b>HPE</b>
192.	Clause 73, C22 - Enterprise Management Suite	New Suggestion	The proposed solution must be able to provide the following capabilities: a) Monitor the health of the services with the Service Analyzer. b) Track issues using the Notable Events Review. c) Use aggregation policies to organize and take actions upon notable events. d) Create HTML5 dashboard to visualize IT and business services and their relationships. e) Troubleshoot issues using deep dives. f) Create multi-KPI alerts and correlation searches to alert conditions that may impact service.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>HPE</b>
193.	Clause 73, C22 - Enterprise Management Suite	New Suggestion	The proposed solution must provide predictive capabilities through machine learning algorithms to predict the service health score in advance to prevent outages from happening. The algorithms use historical KPI and service health score data to model what the service health might look like in 20-30 minutes.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>HPE</b>
194.	Clause 73, C22 - Enterprise Management Suite	New Suggestion	The proposed solution must provide a service view that serves as the starting point for monitoring IT operations and enables the visibility of the health of the IT environment at a glance.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
195.	Clause 73, C22 - Enterprise Management Suite	New Suggestion	<p>The proposed solution must provide an investigative tool to help identify and analyze issues in the IT environment.</p> <p>A) To view KPI search results over time  b) To zoom-in on KPI search results  c) To visual correlate root cause  d) To stack and organize deep dive lanes to create contextual views of metrics across your services</p>	<p>The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.</p>	<b>HPE</b>
196.	Clause 73, C22 - Enterprise Management Suite	New Suggestion	<p>The proposed solution must allow customization of visualizations of IT services and key business metrics, and map KPIs to these visualizations to easily view the health and performance of what matters most.</p> <p>The customisation capabilities are:</p> <p>a) Import custom icons for use in HTML5 dashboards.  b) Configure a shape or icon in the HTML5 dashboard to act like a KPI or ad hoc search widget.  c) Configure threshold to determine the color of the widget which indicates the current status of the metric.  d) Configure background colour for the HTML5 dashboard.  e) Configure drill-downs to other HTML5 dashboards or a custom URL.</p>	<p>The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.</p>	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
197.	Page 41 / TECHNICAL SPECIFICATIONS: DATA CENTRE / 8.Electrical & UPS Works	200 kVA modular UPS in N+N configuration, scalable up to 500 KVA and Lithium-ion Battery banks to provide minimum 10 minutes back up at full load. Should be integrated with DCIM software for centralized monitoring & management.	Request you to kindly share the detailed specification & technology for the UPS System	As per para 8 on page 40-41 of RFP, the UPS should be with 3 phase Fully Rated Pluggable Hot Swappable Static Switch Module (On Line Draw In/Out) shall be provided. Sub Power modules shall be swappable without putting the UPS in bypass/battery operation.	HPE
198.	Page 41 / TECHNICAL SPECIFICATIONS: DATA CENTRE / 8.Electrical & UPS Works/8.1.5	The main system controller shall be hot-swappable and while the system is running live, removing or replacing the main system controller shall have no impact on the load.	The main system controller shall be hot-swappable and while the system is running live, removing or replacing the main system controller shall have no impact on the load <b>OR Each power module shall have its own intelligent control logic to avoid single point of failure</b>	Bidder to provide workable solution as per As per para 8 on page 40-41 of RFP.	HPE
199.	Page 42 / TECHNICAL SPECIFICATIONS: DATA CENTRE / 8.6. Cooling Works	Data Centre cooling solution should be perimeter cooling solution with 42U useable rack space per rack to support Medium/ High Density Rack Load of up to 10KW per rack. The Cooling units should be in (N+1) configuration.	Request you to kindly share the detailed specification & technology for the perimeter cooling units. Quantity and Capacity of the precision cooling unit should be as per OEM design parameters meeting the IT Load requirement.	As per para13.2 on page 48 of RFP, para 6.8 on page 36, para 41.5 on page 75of RFP, data centre cooling solution must be DX based In-row Unit with hot and cold aisle.	HPE
200.	Page 45 / TECHNICAL SPECIFICATIONS: DATA CENTRE / 8.11 BMS and NMS Systems /8.11.1.	The Building Management System will be implemented to monitor the various systems installed later. Entire server room, Equipment should be monitored with the DCIM and Unified IT Operation Management with Network Management System (NMS). All Data Centre components should be provided with suitable DCIM/	Request you to kindly share the detailed specification for the DCIM. Further, it is suggested to consider dedicated DCIM for the Data Centre Non IT Infrastructure.	(a) As per Para 40.11 on page 74 of RFP, the DCIM solution is required for the DC, DRDC & NLDC for central management and monitoring of Data Centre facilities, infrastructure and IT infrastructure. As mentioned in the RFP the desired solution must have following minimum capabilities:- (i)A location-based drill-down	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
		BMS/ UIM interface modules. All required cables and relevant accessories to be laid. Detailed specification of DCIM and BMS are given in Chapter 06 of DPR.		<p>view provides a structured overview of data center locations, from a global to local view down to single assets.</p> <p>(ii) Visualization of the Data Center and Racks should visualize the heat maps in a rendering of the floor view &amp; should allow to view actual rack heat load and to help balancing and optimizing the system and generate reports - with this feature DC operation team will be able to identify potential hot pockets, airflow problem on floor, also this must help operation team to optimize the cooling inside /outside of room/rack thus bringing room &amp; rack level cooling efficiency.</p> <p>(iii) Supply, Installation, Testing and Commissioning of Standard Dashboard and Reporting, Audit Trail, Tenancy, Capacity, History, Contiguous Free U-Space, Customer Inventory Report, Executive Power, Asset lifecycle management and Space Rack U.</p> <p>(b) Bidder to provide DCIM software for managing ICT and Non-ICT infrastructure.</p>	

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
201.	Page 45 / TECHNICAL SPECIFICATIONS: DATA CENTRE / 8.11 BMS and NMS Systems /8.11.2	IP enabled PDU compatible to BMS with the following design:- 47.5.1. Sleek design. 47.5.2. Locking power chord.	Kindly Amend As : "IP enabled PDU compatible to BMS/DCIM with the following design:- 47.5.1. Sleek design. 47.5.2. Locking power sockets	The bidder to comply to the conditions/ requirements at para 8.11 on page 45 of RFP are.	HPE
202.	Page 46 / TECHNICAL SPECIFICATIONS: DATA CENTRE / 8.11 BMS and NMS Systems /8.11.2.6	BMS will be capable of monitoring each cooling system, UPS, Electrical Panels and complete security system such as Fire alarm system, fire suppression system, EMS, ACS, VESDA, WLD, etc.	DCIM will be capable of monitoring each cooling system, UPS, Electrical Panels and complete security system such as Fire alarm system, fire suppression system, EMS, ACS, VESDA, WLD, etc.	As per para 13.8 on page 48 of RFP. Both BMS and DCIM software along with requisite accessories for DC, DRDC & NLDC must be part of the solutions.	HPE
203.	Page 54 / TECHNICAL SPECIFICATIONS: DISASTER RECOVERY DATA CENTRE/27.1.1	UPS to cater Phase-I load i.e. 200 kVA with 10 mins backup with Lithium-ion battery backup suitable to scale up to 400 kVA with N+N configuration to cater Phase-I & Phase-II loads. The UPS should be the latest state-of-the-art modular system and shall be a single unit, complete with modular, parallel redundancy. UPS standards like EN 62040-1:2008, 2011 and 2013 must be followed.	Request you to kindly share the detailed specification & technology for the UPS System	UPS specifications are given at para 8 on page 40 for DC. Para 27 on page 58 for DR. Para 43 on page 77 for NLDC. UPS should be with 3 phase Fully Rated Pluggable Hot Swappable Static Switch Module (On Line Draw In/Out) shall be provided. Sub Power modules shall be swappable without putting the UPS in bypass/battery operation. The UPS should be with 3 phase Fully Rated Pluggable Hot Swappable Static Switch Module (On Line Draw In/Out) shall be provided. Sub Power modules shall be swappable without putting the UPS in bypass/battery operation.	HPE



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
204.	Page 54 / TECHNICAL SPECIFICATIONS: DISASTER RECOVERY DATA CENTRE/27.1.5	The main system controller shall be hot-swappable and while the system is running live, removing or replacing the main system controller shall have no impact on the load.	The main system controller shall be hot-swappable and while the system is running live, removing or replacing the main system controller shall have no impact on the load <b>OR Each power module shall have its own intelligent control logic to avoid single point of failure</b>	The bidder to comply to the conditions/ requirements at para 27.1 on page 54 of RFP .	HPE
205.	Page 60 / TECHNICAL SPECIFICATIONS: DISASTER RECOVERY DATA CENTRE / 28.Cooling Works/28.1	Data Centre cooling solution should be in-rack/ in-row based solution to support average density Rack Load of minimum 10KW per rack with 42U useable rack space per rack.	Request you to kindly share the detailed specification & technology for the in-row cooling units. Quantity and Capacity of the precision cooling unit should be as per OEM design parameters meeting the IT Load requirement.	General specifications given at para 28 on page 60 of RFP. Vendor to provide solution to meet Uptime institute Tier-III standards	HPE
206.	Page 60 / TECHNICAL SPECIFICATIONS: DISASTER RECOVERY DATA CENTRE /29.9 BMS and NMS Systems /29.9.1.	The Building Management System will be implemented to monitor the various systems installed later. Entire server room, Equipment should be monitored with the DCIM and Unified IT Operation Management with Network Management System (NMS). All Data Centre components should be provided with suitable DCIM/ BMS/ UIM interface modules. All required cables and relevant accessories to be laid. Detailed specification of DCIM and BMS are given in Chapter 06 of DPR.	Request you to kindly share the detailed specification for the DCIM. Further , it is suggested to consider dedicated DCIM for the Data Centre Non IT Infrastructure .	Higher level requirement of DCIM and BMS mentioned at para 8.11 on page 45 of RFP. Vendor to provide solution to meet Uptime institute Tier-III standards	HPE
207.	Page 63 / TECHNICAL SPECIFICATIONS: DISASTER RECOVERY DATA CENTRE /29.9.2	IP enabled PDU compatible to BMS with the following design:- 47.5.1. Sleek design. 47.5.2. Locking power chord.	Kindly Amend As:  "IP enabled PDU compatible to BMS/ <b>DCIM</b> with the following design:- 47.5.1. Sleek design. 47.5.2. Locking power <b>sockets</b>	The bidder to comply to the conditions/ requirements at para 29.9 on page 63 of RFP.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
208.	Page 63 / TECHNICAL SPECIFICATIONS: DISASTER RECOVERY DATA CENTRE/ 29.9.3	BMS will be capable of monitoring each cooling system, UPS, Electrical Panels and complete security system such as Fire alarm system, fire suppression system, EMS, ACS, VESDA, WLD, etc.	DCIM will be capable of monitoring each cooling system, UPS, Electrical Panels and complete security system such as Fire alarm system, fire suppression system, EMS, ACS, VESDA, WLD, etc.	As per para 13.8 on page 48 of RFP. Both BMS and DCIM software along with requisite accessories for DC, DRDC & NLDC must be part of the solutions.	HPE
209.	Page 74 / TECHNICAL SPECIFICATIONS: NEAR LINE DATA CENTRE / Design Requirement /40.4	The cold aisle containment with perimeter cooling solution should be provided.	The Clause 40.4 & 40.6 contradicts each other . We understand that Hot & Cold aisle containment solution with 5 Racks having 3 In-Row units of the capacity is the final requirement . Kindly confirm	The bidder to comply to the conditions/ requirements at para 40.6 on page 73 of RFP.	HPE
210.	Page 74 / TECHNICAL SPECIFICATIONS: NEAR LINE DATA CENTRE / Design Requirement /40.6	The NLDC shall be provided as a Hot & Cold aisle containment Smart Row solution with 5 Racks Having 3 In-Row units of the capacity mentioned above. The UPS can be placed in electrical room specifically designed for the NLDC.	We understand that the hot & cold aisle containment will be part of the rack frame & no site fabricated containment will be accepted . Kindly confirm	Affirmative	HPE
211.	Page 77 / TECHNICAL SPECIFICATIONS: NEAR LINE DATA CENTRE /Electrical & UPS works /43 / 43.1.6	The main system controller shall be hot-swappable and while the system is running live, removing or replacing the main system controller shall have no impact on the load	The main system controller shall be hot-swappable and while the system is running live, removing or replacing the main system controller shall have no impact on the load <b>OR Each power module shall have its own intelligent control logic to avoid single point of failure</b>	The bidder to comply to the conditions/ requirements at para 43 on page 77 of RFP.	HPE
212.	Page 83 / TECHNICAL SPECIFICATIONS: NEAR LINE DATA CENTRE /47. Environmental Monitoring System/47.3	It should be capable to integrate with building management system.	Kindly amend as: It should be capable to integrate with building management system/ <b>DCIM through SNMP or other Protocols.</b>	The bidder to comply to the conditions/ requirements at para 47.3 on page 83 of RFP.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
213.	Page 83 / TECHNICAL SPECIFICATIONS: NEAR LINE DATA CENTRE /47.5	IP enabled PDU compatible to BMS with the following design:- 47.5.1. Sleek design. 47.5.2. Locking power chord.	Kindly Amend As: "IP enabled PDU compatible to BMS/ <b>DCIM</b> with the following design:- 47.5.1. Sleek design. 47.5.2. Locking power <b>sockets</b> "	The bidder to comply to the conditions/ requirements at para 47.5 on page 83 of RFP.	<b>HPE</b>
214.	126/ C14 (65.3)	Switch should be based on industry leading standards based Virtual output queuing architecture backed with minimum 8GB of VOQ packet buffer.	Compared to the buffer in leaf switch, the buffer on the spine switch should be higher for the no. of ports asked. Therefore, requesting to modify the clause as:  "Switch should be based on industry leading standards based Virtual output queuing architecture backed with minimum <b>16GB</b> of VOQ packet buffer"	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>HPE</b>
215.	127/ C14 (65.12)	Switch should support different logical interface types like loopback, VLAN, SVI, Port Channel, multi chassis port channel/ Link Aggregation Group (LAG) etc.	multi-chassis port channel and LAG are two separate things. So, both must be supported on the system instead of optional support.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>HPE</b>
216.	127/ C14 (65.17)	Switch Should support OISM routed multicast with EVPN VXLAN.	there is more ways than OISM to support routed multicast. So, Please modify the clause as suggested  "Switch Should support OISM/routed-multicast with EVPN VXLAN."	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
217.	127/ C14 (65.2)	Switch should support minimum 200K MAC addresses. Minimum 8GB VOQ packet buffer on day-1.	Compared to the buffer in leaf switch, the buffer on the spine switch should be higher for the no. of ports asked. Therefore, requesting to modify the clause as:  "Switch should support minimum 200K MAC addresses. Minimum <b>16GB</b> VOQ packet buffer on day-1."	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>HPE</b>
218.	128/ C14 (65.28)	Switch should support NTP, PTP (boundary and transparent mode), SNMPv3, syslog, packet capture using Wire shark, Multiple config Files, Multiple Images, Config Roll back	Tcp dump is another tool which can be used in place of wire shark. So, Please allow tcp dump as an option to wire shark tool.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>HPE</b>
219.	128/ C14 (65.31)	Switch should support logging and searching of changes in IP route table, ARP address table and AC address table when an entry is added or deleted from the table.	please allow for the functionality to be available through additional tool in case the functionality is not available natively on the device. So, please modify the clause as:  "Switch should support logging and searching of changes in IP route table, ARP address table and AC address table when an entry is added or deleted from the table, <b>with or without using any external tool</b> "	The bidder to comply to the conditions/ requirements at para 65.31 on page 128 of RFP.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
220.	130/ C15 (66.2)	The Switch should have redundant hot-swappable power supplies and redundant hot swappable fans. Single PS or fan failure should not impact the functioning of the switch.	<p>A leaf switch may be mounted on the front or back of the rack depending on the use case and so should have support for both front-to-back and back-to-front airflow. So, Please modify clause as mentioned below to streamline the deployment:</p> <p>"The Switch should have redundant hot-swappable power supplies and redundant hot swappable fans. Single PS or fan failure should not impact the functioning of the switch. <b>Device should be capable of supporting both front-to-back and back-to-front airflow. Installation to be done as per site requirement</b>"</p>	The bidder to comply to the conditions/ requirements at para 66.2 on page 130 of RFP.	<b>HPE</b>
221.	130/ C15 (66.11)	The switch should support hardware based load balancing at wire speed using LACP and multi chassis ether-channel/LAG. Min 128-Way ECMP support.	multi-chassis port channel and LAG are two separate things. So, both should be supported on the system instead of optional support.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>HPE</b>
222.	131/ C15 (66.16)	Switch Should support OISM routed multicast with EVPN VXLAN.	<p>there is more ways than OISM to support routed multicast. So, Please modify the clause as suggested</p> <p>"Switch Should support OISM/routed-multicast with EVPN VXLAN."</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
223.	131/ C15 (66.27)	Switch should support NTP, PTP (boundary and transparent mode), SNMPv3, syslog, packet capture using Wire shark, Multiple config Files, Multiple Images, Config Roll back	tcpdump is another tool which can be used in place of wireshark. So, Please allow tcpdump as an option to wireshark tool.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	HPE
224.	131/ C15 (66.30)	Switch should support logging and searching of changes in IP route table, ARP address table an MAC address table when an entry is added or deleted from the table.	please allow for the functionality to be available through additional tool in case the functionality is not available natively on the device. So, please modify the clause as:  "Switch should support logging and searching of changes in IP route table, ARP address table and AC address table when an entry is added or deleted from the table, <b>with or without using any external tool</b> "	The bidder to comply to the conditions/ requirements at para 66.30 on page 131 of RFP.	HPE
225.	133/ C16 (67.2)	The switch should support Dual hot-swappable power supplies and N+1 hot swappable fans	Mgmt. switch may be mounted on the front or back of the rack depending on the use case and so should have support for both front-to-back and back-to-front airflow. So, Please modify clause as mentioned below to streamline the deployment:  "The switch should support Dual hot-swappable power supplies and N+1 hot swappable fans. <b>Device should be capable of supporting both front-to-back and back-to-front airflow. Installation to be done as per site requirement</b> "	The bidder to comply to the conditions/ requirements at para 67.2 on page 133 of RFP.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
226.	134/ / C16 (67.32)	Operating temperature of -5°C to 40°C	All leading OEMs support <b>5°C to 40°C</b> of operating temperature. Requesting to please modify the clause accordingly.	Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs	HPE
227.	135/ / C16 (67.46)	Switch should support tracking of changes in IP route table, ARP address table and MAC address table when an entry is added or deleted from the table for logging or troubleshooting	please allow for the functionality to be available through additional tool in case the functionality is not available natively on the device. So, please modify the clause as:  "Switch should support tracking of changes in IP route table, ARP address table and MAC address table when an entry is added or deleted from the table for logging or troubleshooting, <b>with or without using any external tool</b> "	The bidder to comply to the conditions/ requirements at para 67.46 on page 135 of RFP.	HPE
228.	139/ / C17 (68.50)	Operating temperature of -5°C to 40°C	All leading OEMs supports <b>5°C to 40°C</b> of operating temperature. Requesting to please modify the clause accordingly.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	HPE
229.	497/ 14	2 Nos	Spine switch is a very critical component of infrastructure and should be deployed in redundancy. As intranet and internet zones are air gaped, for redundancy in each zone at spine layer, there should be minimum of 4 quantity of spine switches. So please change the quantity to 4 nos.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
230.	497/ 18	2 Nos	Core router is a very critical component of infrastructure and should be deployed in redundancy. As intranet and internet zones are air gaped, for redundancy in each zone at core router, there should be minimum of 4 quantity of core routers. So please change the quantity to 4 nos.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	HPE
231.	497/ 26	1 Nos	because of the air-gapped intranet and internet, the minimum quantity of the item should be 2, so that both zones can be implemented.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	HPE
232.	499/ 8	1 Nos	because of the air-gapped intranet and internet, the minimum quantity of the item should be 2, so that both zones can be implemented.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	HPE
233.	499/ 12	1 Nos	because of the air-gapped intranet and internet, the minimum quantity of the item should be 2, so that both zones can be implemented.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	HPE



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
234.	new Clause proposed	new Clause proposed	there is no mention of "Network Detection and Packet Tracking" in BOQ of NEAR LINE DATA CENTRE. It is suggested to add 2 qty of this item in the BOQ of near line DC also for symmetric solution across all sites. As part of the Gartner recommendation followed by the enterprises, NDR should be part of the security triad.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>HPE</b>
235.	Page no. 34 OPERATIONAL CHARACTERISTICS AND FEATURES TECHNICAL SPECIFICATIONS: DATA CENTRE	3.1.5.1 , Transformer , 750 KVA (N+N)	As per our understanding Raw power including transformers (N+N) , HT installation etc. will be provided by the department and electricity charges will be paid by the department during the implementation as well as during the O&M period, please clarify.	Transformer (N+N) for the DC & DRDC has to be provided by the bidder. However, the raw power including the electricity charges will be given by the ICG.	<b>Mahindra Defence</b>
236.	Page no. 36 OPERATIONAL CHARACTERISTICS AND FEATURES TECHNICAL SPECIFICATIONS: DATA CENTRE	6. Scope of Work. Other Building Services like WTP, STP, Rain Water Harvesting, HSD Yard, DC Building Related Landscaping	As per the scope of work defined, construction of WTP and STP is also in the scope, capacity in MLD for WTP STP not specified. Bidder has to develop these in DC, NDC and DR , based on the requirement in the building specified in the scope, please confirm our understanding.	Bidder has to develop the facilities such as WTP, STP etc. in DC and DRDC building based on the requirement in the building specified in the scope of work.	<b>Mahindra Defence</b>
237.	Page no. 36 OPERATIONAL CHARACTERISTICS AND FEATURES TECHNICAL SPECIFICATIONS: DATA CENTRE	6.3. The Complete Electrical Infrastructure from Feeder to the Critical Load including HT, LT with BBT required to operate and manage the complete DC with respect to equipment and manpower required for this DC.	Complete electrical infrastructure including Transformer, HT, LT and BBT should be in the scope of the purchaser. Please clarify	As per the RFP, provision of the raw power to the bidder is the responsibility of the ICG. Complete electrical infra is the scope of the bidder.	<b>Mahindra Defence</b>
238.	13. High level of Bill of Material.	13. High level of Bill of Material. 13.17 Video Wall for 24x7 monitoring, Super Narrow Bezel LED	Video wall controller and software is not mentioned as a line item, please clarify if video wall controller is to be considered as a separate line item if so please include it in the BOQ	As per Para 6.13 on Page 36, Para 24.15 on page 57, Para 344.17 on page 65 of RFP, Bidder has to provide video wall with all accessories and analytic	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
		Display, 24x7 rated, 4 x 55" in tile configuration with accessories		<p>software with following specifications:-</p> <p><u>Command Centre Display (CCD)</u> to provide single-pane-of-glass-monitoring of DC, DR, NLDC, ROBO, WAN, Applications spanning across ICG IT systems. CCD Should use entire canvas, support upto 4K resolution, seamless screen and render information through advanced graphs/ charts, using enterprise grade BI software. CCD to integrate with various IT systems, applications through enterprises grade Robotic Process Automation (RPA) of minimum 25 bots to acquired through native REST API, screen capture, APIs with EMS, NMS, ERP systems, Database systems, SDWAN, IP Phones, desktop computers, NGFW systems etc.</p> <p><u>Command &amp; Control Analytics and Data Visualization Software with RPA</u> <u>Command &amp; Control Analytics and Data Visualization Software with RPA:</u> Should provide Server based Analytics and Data Visualization, Auto-refreshing views, Black Background. Dashboard layouts for big screens, Display to use entire canvas, Auto-refreshing views. Should support data from various sources using native</p>	

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
				connectors, Value stored in NoSQL database such as MongoDB/ Oracle, PostgreSQL, REST API, Excel Files, Hadoop. CCDV should provide rich set of configurable Charts/ Graphs, Should support all latest OS versions, Generate tasks by dragging and dropping the items from the toolbox, On-demand enterprise-grade platform for RPA bot, Augmented data discovery, Interactive visual exploration, Embedding of analytic content, Publish, share and collaborate on analytic content, Analytic dashboards, Data preparation, Data storage and loading options, Metadata management, Data source connectivity and ingestion.	
239.	Page No. 65 34. Data Recovery Data Centre-High level Bill of Material	Line item 34.15 Transformer, HT panel and PCC , 1 set	The BOQ for DR mentions that Transformer, HT Panel and PCC is in the scope of bidder, kindly confirm as this is not part of BOQ for Data Centre Infrastructure as well as for Near DC.	As per 3.2.1 on page 34 & para 3.1.5 on page 33 of RFP, provision of the raw power to the bidder is the responsibility of the ICG. Complete electrical infra is the scope of the bidder.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
240.	Page No. 64 33. Miscellaneous.	TECHNICAL SPECIFICATIONS: DISASTER RECOVERY DATA CENTRE 33.4 Work stations. 120 work stations of data centre specification to be provisioned in DR. Cabin to cubicle ration is 20:80. Size of the cabin - 10'x15' and cubicles - 8'x6'. Each cabin/ cubicle to be equipped with one Desktop computer(minimum i7 or equivalent processor, RAM-DDR4 8 GB & Storage 1TB, 22" LED Monitor, 1 KVA UPS). DR to be provided with 04 Heavy Duty MFDs and 15 printers each (05 color and 10 BW).	200 KVA UPS with 10 min. of backup time is already provisioned, Please clarify if separate 1KVA UPS (Qty 120) are also required for 120 workstations.	1KVA UPS to be given separately for 120 workstations	<b>Mahindra Defence</b>
241.	Page no. 46 9. Software Defined Data Centre (SDDC) enabled Server, Server Chassis, Software, Main Storage and Backup Tape Storage Systems with Application Delivery Controller (ADC).	Detailed sizing and technical specifications are given in Chapter-06 of DPR	Its mentioned in few places in the RFP that Detailed sizing and technical specifications are given in Chapter-06 of DPR, however Chapter 06 of the DPR is not available in the document. Please clarify if the specifications mentioned in Chapter 06 of the DPR are in addition to the specifications mentioned in the RFP if so please provide chapter 06 / reference used in the RFP	DPR Chapter-6 have been reproduced in the RFP. All the specification mentioned in RFP is same as that in DPR. Bidders to bid as per the specifications published in the RFP.	<b>Mahindra Defence</b>
242.	93.17,247	Should be application aware and provide Full Proxy for protocols such as HTTP, HTTPS, FTP, SIP, DNS, Diameter, RADIUS etc.	Request to kindly amend the clause "Should be application aware and provide Full Proxy for protocols such as HTTP, HTTPS, FTP, SIP, DNS, RADIUS etc." [Diameter Protocol is generally used in Telco segment for AAA. If this protocol is required for Coast Guard, can you kindly let us know the use case. If this is not required, request you to kindly remove this protocol from this RFP.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
243.	93.18,247	Should support inspection of SSL traffic for reverse proxy and forward proxy deployment. Should also support ICAP interface for integration with external security systems.	Request to kindly amend the clause "Should support inspection of SSL traffic for reverse proxy deployment. Should also support ICAP interface for integration with external security systems." [Requesting Coast Guard to share the use-case for forward proxy. If forward proxy is not a requirement, request you to kindly remove this from RFP]	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
244.	93.19,247	Should support IoT Device authentication over SSL and MQTT Message parsing and MQTT load balancing.	Request to remove this clause. [Is there any IOT device authentication use-case. For our solution compliance request to remove this clause].	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
245.	93.25,247	It should have capability to automatically analyse attacks like Brute Force and avail CAPTCHA on the fly to users to identify bot / scripted attacks	Kindly amend "It should have capability to automatically analyze attacks like Brute Force." [Presently we do not support CAPTCHA support]	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
246.	93.27,248	It must be able to detect the presence of Remote Access Trojans (RATs) residing in the user's web browser.	Request to Remove this clause. [This is not a LB feature. Remote Access Trojans (RAT's) is related to Malware attack which is taken care by security device like Firewall. We support ICAP. If anybody is uploading files, it can be sent to 3rd party scanning / detection tools via ICAP protocol].	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
247.	93.28,248	It should perform comprehensive countermeasure to protect against zero day attack, Challenge – Response Mechanism, which should be able to detect and protect attacks in real time through inbuilt Captcha Mechanism	Kindly amend "It should perform comprehensive countermeasure to protect against zero day attack, Challenge – Response Mechanism, which should be able to detect and protect attacks in real time " [Presently we do not support CAPTCHA support	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
248.	93.29,248	It should encrypt the sensitive field in the application in real time as compared to being encrypted after a submit button or equivalent being pressed	Please elaborate on the requirement of this clause.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
249.	93.35,248	Should have a built-in tool to take a snapshot of the unit for troubleshooting and analysis purpose	Kindly elaborate requirement for this clause. Our solution is able to download the debug logs for troubleshooting. Is this what is required from this clause ?	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
250.	93.36,248	Vendor should provide a service to upload this snapshot and get feedback on the health of the unit & missing Hotfixes and best practices	Our solution runs on hardened appliance. If there are any vulnerabilities, they are fixed in next releases. Our solution strives to ensure the highest level of security, adhering to rigorous testing and validation standards for our service engines and controllers. Kindly confirm if this meets the requirement of this clause [Kindly confirm]	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
251.	8.0. ,249	OEM should be listed in Gartner leader quadrant for ADC for last 3 years consecutively	Kindly remove this clause [Gartner has not released Magic Quadrant since year 2016 for ADC's]	Bidder to provide last available report.	<b>Mahindra Defence</b>
252.	55.18,103	The Solution should be capable to determine optimal number of containers fits with the environment.	Kindly amend "The Solution should support to deploy optimal number of containers that fits with the environment based on available resources and discovery exercise." [The decision regarding number of containers required is based on the discovery exercise/analysis. The container platform doesn't have the capability to decide number of container required per environment.	Solution should be able to deploy optimal number of containers on available resources for containerized applications/ workload	<b>Mahindra Defence</b>
253.	55.2,103	The solution should be capable of automatically keep application cluster up to date with the latest release version of container-orchestration system.	Kindly amend "The solution should be capable of keeping Kubernetes application cluster up to date with the latest release version of container-orchestration system with defined commands and process." [The Kubernetes cluster can be easily upgraded with a single command or can be automated with the help of additional IAC tools. But in general the container platform doesn't upgrade the version automatically, as it requires impact analysis beforehand].	Solution should have defined way to keep the Kubernetes clusters up to date on latest release version	<b>Mahindra Defence</b>
254.	55.23,103	Solution should provide rest API to that exposes operations for managing a cluster, security and user management, application deployments, image and source builds, HTTP(s) routing and project management.	Kindly amend "Solution should provide rest API to that exposes operations for managing a cluster." [Security, user management, application deployment, https routing and project management are not something a container platform should offer. Can you please provide more details around the same].	Rest API should be available with solution to expose all operations for managing cluster	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
255.	55.24,103	The solution should provide an integrated networking solution (CNI implementations) as well as provide advance turnkey container networking services at Layer 2 through 7 such as DNAT/SNAT, DHCP, Load Balancers (L4 and L7) and firewall in addition to switching and routing (North-South and East-West	Kindly amend "The solution should provide an integrated networking solution (CNI implementations) as well as provide advance turnkey container networking services at Layer 2 through 7 such as DNAT/SNAT, DHCP in addition to switching and routing (North-South and East-West" [Load balancer and Firewall are never been part of container platform. It is a separate products, please provide more information in this regards].	Solution should integrate with Load Balancer and Firewall asked in RFP	<b>Mahindra Defence</b>
256.	30,18	Technical Details	<p>As per our understanding following would be the implementation scope for software defined data Centre: Deployment of software define data centre technologies for Intranet Zone as per following:</p> <ul style="list-style-type: none"> <li>• Deployment of virtualization platform using proposed hypervisor and hypervisor management tool across DC, NLDC, DR</li> <li>• Deployment of log management and operations tool across DC, NLDC, DR for proposed virtualization platform</li> <li>• Deployment of Software Defined network and integrate with virtualization platform across DC, NLDC, DR</li> <li>• Implement software defined network to provide capabilities like distributed IDS/IPS</li> <li>• Enable micro segmentation, distributed firewalls, gateway firewalls, advanced load balancer capability for applications across DC, NLDC, DR</li> <li>• Implement container platform at DC &amp; DR, deploy 2 Kubernetes workload environments and demonstrate one sample</li> </ul>	<p>1. Scope for the DC, DRDC &amp; NLDC not limited to these, but have been briefly described at at Appendix - "A".</p> <p>2. Project timeline placed at para 44 of Part-II of RFP on page 22.</p>	<b>Mahindra Defence</b>



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>workload on container platform</p> <ul style="list-style-type: none"> <li>• Deployment of cloud management platform at Primary DC and failover to DR site.</li> <li>• Configure cloud management platform to manage and deploy VM workloads across DC, NLDC, DR</li> <li>• Configure proposed cloud management platform to have a service catalogue for Infrastructure as a service for its consumers to deploy Windows and Linux workloads across DC, NLDC, DR</li> <li>• Integrate cloud management platform to configure network and security during workload provisioning</li> <li>• Implement workload failover orchestration and replication from DC/NLDC to DR via proposed DR automation tool</li> </ul> <p>Deployment of virtualization platform using proposed hypervisor and hypervisor management tool at DC and DR for Internet Zone.</p>		
257.	52.2	The solution should have capability to automate the bring-up process of the entire software platform, including deployment of infrastructure VMs, creation of the management cluster, configuration of VLANs, configuration of virtual storage, virtual network, and cluster creation and provisioning.	Kindly amend "The solution should have capability to automate the bring-up of the service including deployment of infrastructure VMs, cconfiguration of network and security, configuration of storage with VMs etc" [We understand that requirement is to automate the provisioning and day. 2 operations	Bidder to provide the system with capability to automate the bring-up of the service including deployment of infrastructure VMs,c configuration of network and security, configuration of storage with VMs etc" as per para 52.2 on page 86 of RFP.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
258.	55.16,104	Container Platform should integrate with Cloud Management Portal providing visibility into VMs and Containers with automated policy management.	Please clarify the requirement of automated policy management	Solution should support to enable identity and access management and configure policies for role based access to container platform	<b>Mahindra Defence</b>
259.	91.43,243	Should able to monitor Application, Middleware and Database for leading enterprise software systems	Please move it to C22 enterprise Mgmt. Solution Suited [EMS suite has been asked in RFP, this should be part of EMS suite section	Requirement to be met by overall solution proposed by bidder	<b>Mahindra Defence</b>
260.	91.44,243	Should natively support application monitoring for Oracle Fusion Middleware, Oracle Databased, Cisco CUCM for Enterprise Unified Communication and MS Exchange.	Please move it to C22 enterprise Mgmt. Solution Suited [EMS suite has been asked in RFP, this should be part of EMS suite section]	Requirement to be met by overall solution proposed by bidder	<b>Mahindra Defence</b>
261.	52,94	Cloud Billing	We understand that requirement is for show back/ metering of resources, however no billing software is required	RFP requirement to be met for showback/ metering of private cloud resources	<b>Mahindra Defence</b>
262.	Page 4, Special Features of RFP	Supply of Enterprise Database licenses as required including offline remote replication support for ICG Ships and internet zone. The proposal to include warranty for two years (including ATS) followed by AIAMC support for three years (including ATS) post final acceptance and go-live of ERP.	The ERP OEM generally supply a run time database license along with the ERP software. ERP vendor only provide support for the database if the run time database licenses are supplied by them. And the ATS support covers both the ERP Application and the database. Database License becomes an integral part of the ERP license and can be deployed on any number of cores (in DC as well as DR) to the Extent of Licensed ERP Software. Request you to please consider Runtime Database for ERP.	The bidder to comply to the conditions/ requirements at para 4(b) on page 4 of RFP.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
263.	Appendix A Section- 3.1.5/ Page no. 33	DG set requirement in Phase -1	At page no. 33 DG set capacity mentioned is 400 kW and on page no. 48 point no. 13.13 DG capacity mentioned is 320 KVA. Pls clarify the rating and unit (KW or KVA) of DG set.	Bidder to provide DG set of 400kW capacity in (N+N) configurations as mentioned in para 3.1.5 on page 33 of RFP.	<b>Mahindra Defence</b>
264.	Appendix A Section- 3.1.5/ Page no. 33	Capacity of Modular UPS system	Please clarify the unit (KW or KVA) of UPS.	Unit for the UPS capacity is kW.	<b>Mahindra Defence</b>
265.	Page no. 40 8. Electrical & UPS works.	UPS Specifications. 8.1.1. 200 kVA modular UPS in N+N configuration, scalable up to 500 KVA and Lithium-ion Battery banks to provide minimum 10 minutes back up at full load. Should be integrated with DCIM software for centralized monitoring & management.	In Page no. 33 , 200 KW Modular UPS is mentioned for DC , whereas in page no. 40 200 KVA UPS is mentioned please clarify.	Bidder to provide Modular UPS of 200KW capacity in (N+N) configurations as mentioned in para 3.1.5 on page 33 of RFP.	<b>Mahindra Defence</b>
266.	Section 8.2/ Page no. 42	Battery Specifications	Pls also add LMO type Lithium Batteries.	The bidder to comply to the conditions/ requirements at para 8.2 on page 42 of RFP.	<b>Mahindra Defence</b>
267.	Appendix A Section- 3.1.5/ Page no. 33	PAC unit ratings	At page no. 33 PAC rating mentioned is 27 TR and on page no. 52 in DC layout PAC rating shown 30 TR. Pls clarify.	Bidder to provide PAC rating 27 TR as mentioned in para 3.1.5 on page 33 of RFP.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
268.	Appendix A Page no. 32	OPERATIONAL CHARACTERISTICS AND FEATURES TECHNICAL SPECIFICATIONS: DATA CENTRE 3.1.5. The Phase wise minimum required capacities for the proposed DC shall be as follows :- 3.1.5.7 PAC Total Capacity Required :- 108 TR, 1st Phase Requirement :- 27 TR x 3 No ( N+1 ) 2nd Phase Requirement :- 27 TR x 2No ( N+1)	As per our understanding PAC requirements are 27 TR x3 ( N+1) in phase -1 and 27 TR X1 in phase-2, Please clarify	As mentioned in RFP-1st Phase Requirement :- 27 TR x 3 No (N+1) 2nd Phase Requirement beyond scope of project.	<b>Mahindra Defence</b>
269.	Section 22, Clause 22.1.5/ Page no. 55	PUE	PUE in DC is not required. Pls confirm	As per RFP "Annualized Power Usage Effectiveness (PUE) of not exceeding 1.5."	<b>Mahindra Defence</b>
270.	Section 34/ Page no. 65	Data Recovery Data Centre-High level Bill of Material	DG capacity (150 KVA) mentioned in BOM is underrated for 90 kW load in Phase-1 and 90 kW load in Phase-2. Please clarify	Minimum specifications are mentioned in RFP. The mentioned is usable IT Load of ICG, overhead has to be catered by the bidder. Bidder to propose a workable solution meeting the same	<b>Mahindra Defence</b>
271.	DETAILED BILL OF MATERIAL - DATA CENTRE, Page 498- Under Server & Storage -	S No 6-Blade Chassis -C0- 7-4	Each OEM has different capability to host number of blade server in the chassis. As 34 server asked in the DC, blade chassis qty should be asked as 3 or higher to host asked blade servers.	The bidder to comply to the conditions/ requirements at Appendix-Q on page 495 of RFP.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
272.	58.C07 - Composable IT Infrastructure, page 105 90.C39- Composable IT Infrastructure with SDDC, page 233	Addition	Network connectivity of composable infrastructure has not been specified. Request ICG to please add following - "Should support six interconnect bays to configure 3+3 redundancy. Interconnect should support 25Gbps or higher downlinks to the Blades in redundancy supporting carving of each port into at least four ports. Redundant Interconnect modules shall be provided within the chassis such that uplinks from the chassis can be directly connected to core LAN/SAN switches. Each interconnect provided for uplink connectivity should provide at least six QSFP28 populated with transceiver for external uplink to choose Ethernet and FC uplinks as needed. Chassis offered with redundant Switches/ Modules, Server to Server communication should be in 1:1 non blocking. Chassis should also have support for internal SAN switch."	The bidder to comply to the conditions/ requirements at para 58 and 90 on page 105 and 233 of RFP.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
273.	58.C07 - Composable IT Infrastructure, page 105 90.C39- Composable IT Infrastructure with SDDC, page 233	Addition	Composable Infrastructure would require management application as well. Request to add following clause so that all bidder quote software along with required hardware for management without additional cost to ICG. Please add - "Solution should configured with redundant physical management appliances each with 8 cores, 16Gb Memory and min. 400GB NVMe storage to provision required compute, storage and server side network, OS as single package within an enclosure or on multiple connected enclosures with failover and high-availability. Management appliance could be either external or internal to the offered enclosure. Should support software-defined intelligence and auto-discovery for configuring profiles to provision compute, storage, fabrics and images within an enclosure or on multiple connected enclosures. Should support private/shared storage volumes for DAS/SAN attach to server profiles/templates to enable automated and policy-driven volume provisioning"	The bidder to comply to the conditions/ requirements at para 58 and 90 on page 105 and 233 of RFP.	<b>Mahindra Defence</b>
274.	58.19, C07 - Composable IT Infrastructure, Compute Node, Page 107	Addition	Local drive of compute node is not specified. Request to add - "Each compute node should be populated with 2 x 960 GB 12G SAS SSD"	The bidder to comply to the conditions/ requirements at para 58.19 on page 107 of RFP.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
275.	58.19, C07 - Composable IT Infrastructure, Compute Node, Page 107	Addition	Network requirement is not specified for the composable infrastructure. As ICG looking for maximum utilisation of deployed infrastructure with best possible VM density request you to please include Dual port 50 Gbps or 2 Nos of Dual port 25 Gbps converged Network Adaptor. Server should also support FC HBA.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
276.	58.19, C07 - Composable IT Infrastructure, Compute Node, Page 107	Addition	Compute node should have min 03 PCI slots and should support converged network adaptor and FC HBA	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
277.	59.1, C08 - Rack Server, Compute, Page 108	(d) 1024 GB DDR4-2666 NVDIMM or higher	Persistent memory (PMEM) is latest technology innovation to provide alternate to NVDIMM. Request you to modify clause as "(d) 1024 GB NVDIMM/PMEM or higher along with Min 256 GB DDR4 RDIMM"	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
278.	59.3, C08 - Rack Server, Network, Page 109	Addition	Network bandwidth requirement is not specified for the rack server. As ICG looking for maximum utilisation of deployed infrastructure with best possible VM density request you to please include Dual port 25 Gbps Ether Network Adaptor with SFP and Dual Port 32 Gbps FC HBA.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
279.	62.8, C11 - Secondary Storage, Web Scale, SMB/ NFS/ S3, Hardware Type, Page 121	Complete Secondary storage solution has to be from single OEM (including software, OS and hardware).	We understand that one OEM has to package complete solution including software, OS and Hardware and offer to ICG as complete solution. Kindly confirm.	Affirmative	<b>Mahindra Defence</b>
280.	62.10, C11 - Secondary Storage, Web Scale, SMB/ NFS/ S3, Network Ports, Page 122	Provide Minimum 4*10 /25GBps per controller/server node.	Request to modify clause as "Provide Minimum 4*10 /25Gbps per controller/server node."	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
281.	64.15, C13 – Back up Appliance, Interface support, page 127	Offered device shall have Minimum of 4 x 10Gbps IP, 4 x 8Gbps FC	32 Gbps FC is latest mainstream technology request to modify Interface to - "Offered device shall have Minimum of 4 x 10Gbps IP, 4 x 32Gbps FC "	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
282.	C-09 Block & File Storage - Intranet 60.6, Capacity & Scalability	Offered Storage array shall be supplied minimum with 60TB Capacity using 3.84 TB drives and shall be configured in Raid 6 or equivalent excluding all overheads like RAID parity, file system etc.	To have performance availability of all the controllers provided in the solution drives should be equally distributed among controllers. Request to modify clause as "Offered Storage array shall be supplied minimum with 60TB Capacity using 3.84 TB drives and shall be configured in Raid 6 or equivalent excluding all overheads like RAID parity, file system etc. Drives should be equally distributed among all offered controllers."	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
283.	71.4, C20 - SAN Switch, Page 145	Should protect existing device investments with auto-sensing 4, 8, 16 and 32 Gbps capabilities.	We understand ICG is looking for 32Gbps transceiver support on the offered SAN switch. Kindly confirm.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
284.	C36 - Edge Cloud Data Rack Specifications. Page 227		Edge Cloud Data Rack Specifications is not listed. Request you to please add specifications	The bidder to comply to the conditions/ requirements at para 95 of page 250 of RFP.	<b>Mahindra Defence</b>
285.	94.1, C43 - Rack Server, Compute, Page 252	(d) 1024 GB DDR4-2666 NVDIMM or higher	Persistent memory (PMEM) is latest technology innovation to provide alternate to NVDIMM. Request you to modify clause as "(d) 1024 GB NVDIMM/PMEM or higher along with Min 256 GB DDR4 RDIMM"	The bidder to comply to the conditions/ requirements at para 94 on page 252 of RFP. However, bidder can provide latest suitable solution in the technical proposal.	<b>Mahindra Defence</b>
286.	94.3, C43 - Rack Server, Network, Page 252	Addition	Network bandwidth requirement is not specified for the Rack Server. As ICG looking for maximum utilisation of deployed infrastructure with best possible VM density request you to please include Dual port 25 Gbps Ether Network Adaptor with SFP and Dual Port 32 Gbps FC HBA.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
287.	94.4, C43 - Rack Server, Other Software, Page 252	(a) Windows 2016 Server DC Edition or latest with SA	As Windows 2016 is end of sale request ICG to modify clause as ' "(a) Windows 2022 Server DC Edition or latest with SA"	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
288.	95.2, C44-ROBO Servers, Page 253	Ruggedized Hyper Converged Appliance	As ICG is looking for racks providing rugged capability, individual component need not to be rugged. Request you to please modify clause as - "Ruggedized Hyper Converged Solution"	The bidder to comply to the conditions/ requirements at para 95.2 on page 253 of RFP.	<b>Mahindra Defence</b>
289.	95.5, C44-ROBO Servers, Page 253	Quorum Node	As ICG is deploying 3 node HCI solution, additional quorum node is not required. Request to delete this clause	The bidder to comply to the conditions/ requirements at para 95.5 on page 253 of RFP.	<b>Mahindra Defence</b>
290.	95.6, C44-ROBO Servers, Page 253	Min. Core per Processor	As ICG intent to procure all latest generation technology, request to modify clause as - "Min. Core per Processor. Processor should be of latest generation by CPU OEM"	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
291.	95.25, C44-ROBO Servers, Page 253	Rugged Enclosure, MIL Grade	We understand by "rugged enclosure", ICG is referring to rugged rack enclosure of 42U and not applicable to component being placed on rugged rack. Kindly confirm.	at para 95.25 on page 253 of RFP.	<b>Mahindra Defence</b>
292.	95.28, C44-ROBO Servers, Page 254	HCA OEM inter-operability certification for Server, Storage, Network components	Interoperability matrix is published by HCI software OEM. Request to modify clause as "HCI Software OEM inter-operability certification for Server, Storage, Network components"	The bidder to comply to the conditions/ requirements at para 95.28 on page 254 of RFP.	<b>Mahindra Defence</b>
293.	Sections 14-18,35.1-35.5,50-5149-53, 67-71, 84-85	Suggested DC Floor layout (Ground floor to 2nd floor, rack layout, power distribution layout), Suggested DR layout(Ground floor to 2nd floor, rack layout, power distribution layout)	Architectural floor plans for DC, DC-DR and NLDC	Bidder to provide the architectural floor plans for DC, DRDC and NLDC along with the technical proposal.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
294.	Section 3.1.4 Page 33	Cold aisle containment	Please provide Cold Aisle containment technical specifications	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
295.	Section 3.1.	Specification not given in the RFP	Please provide technical specifications of DG and UPS	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
296.	Section 3.7 Page 35	Centrally managed and monitored DC	Please provide DCiM technical specifications	(a) As per Para 40.11 on page 74 of RFP, the DCiM solution is required for the DC, DRDC & NLDC for central management and monitoring of Data Centre facilities, infrastructure and IT infrastructure. As mentioned in the RFP the desired solution must have following minimum capabilities:- (i) A location-based drill-down view provides a structured overview of data center locations, from a global to local view down to single assets. (ii) Visualization of the Data Center and Racks should visualize the heat maps in a rendering of the floor view &	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
				<p>should allow to view actual rack heat load and to help balancing and optimizing the system and generate reports - with this feature DC operation team will be able to identify potential hot pockets, airflow problem on floor, also this must help operation team to optimize the cooling inside /outside of room/rack thus bringing room &amp; rack level cooling efficiency.</p> <p>(iii) Supply, Installation, Testing and Commissioning of Standard Dashboard and Reporting, Audit Trail, Tenancy, Capacity, History, Contiguous Free U-Space, Customer Inventory Report, Executive Power, Asset lifecycle management and Space Rack U.</p> <p>(b) Bidder to provide DCIM software for managing ICT and Non-ICT infrastructure.</p>	
297.	section 5 Page 35	Scalability	Please provide Structural specifications, Load bearing capacity of each floor	As per para 22.1 on page 54, Bidder to propose the load bearing parameter for DC, DRDC and NLDC building considering the scalability.	<b>Mahindra Defence</b>
298.	section 6.11 Page 36	Scope of work	Please provide Work station layout	Bidder to provide the workstation layout, suiting to the civil architecture design as part of technical proposal.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
299.	Section 6.17 Page 37	Scope of work	Please provide all MEP services technical specifications and WTP STP and rain water harvesting requirements	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
300.	section 7.9 Page 38	Fire Rated Door(Under Specification)	How many hours of fire rating to be considered for fire rated doors	As per Uptime institute standards.	<b>Mahindra Defence</b>
301.	Page no. 126, 65. C14 - Spine Switch / 65.3	Switch should be based on industry leading standards based Virtual output queuing architecture backed with minimum 8GB of VOQ packet buffer.	Compared to the buffer in leaf switch, the buffer on the spine switch should be higher for the no. of ports asked. Therefore, requesting to modify the clause as:  "Switch should be based on industry leading standards based Virtual output queuing architecture backed with minimum <b>16GB</b> of VOQ packet buffer"	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
302.	Page no. 127, 65. C14 - Spine Switch / 65.12	Switch should support different logical interface types like loopback, VLAN, SVI, Port Channel, multi chassis port channel/ Link Aggregation Group (LAG) etc.	multi-chassis port channel and LAG are two separate things. So, both must be supported on the system instead of optional support.	As per RFP. Bidder can provide higher specification to provide a comprehensive solution to meet RFP requirements and SLAs	<b>Mahindra Defence</b>
303.	Page no. 127, 65. C14 - Spine Switch / 65.17	Switch Should support OISM routed multicast with EVPN VXLAN.	there is more ways than OISM to support routed multicast. So, Please modify the clause as suggested  "Switch Should support OISM/routed-multicast with EVPN VXLAN."	The bidder to comply to the conditions/ requirements at para 65.17 on page 127 of RFP.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
304.	Page no. 127, 65. C14 - Spine Switch / 65.2	Switch should support minimum 200K MAC addresses. Minimum 8GB VOQ packet buffer on day-1.	Compared to the buffer in leaf switch, the buffer on the spine switch should be higher for the no. of ports asked. Therefore, requesting to modify the clause as:  "Switch should support minimum 200K MAC addresses. Minimum <b>16GB</b> VOQ packet buffer on day-1."	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
305.	Page no. 128, 65. C14 - Spine Switch / 65.28	Switch should support NTP, PTP (boundary and transparent mode), SNMPv3, syslog, packet capture using Wire shark, Multiple config Files, Multiple Images, Config Roll back	tcpdump is another tool which can be used in place of wireshark. So, Please allow tcpdump as an option to wireshark tool.	The bidder to comply to the conditions/ requirements at para 65.28 on page 128 of RFP.	<b>Mahindra Defence</b>
306.	Page no. 128, 65. C14 - Spine Switch / 65.31	Switch should support logging and searching of changes in IP route table, ARP address table and AC address table when an entry is added or deleted from the table.	please allow for the functionality to be available through additional tool in case the functionality is not available natively on the device. So, please modify the clause as:  "Switch should support logging and searching of changes in IP route table, ARP address table and AC address table when an entry is added or deleted from the table, <b>with or without using any external tool</b> "	The bidder to comply to the conditions/ requirements at para 65.31 on page 128 of RFP.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
307.	Page no. 130, 66. C15 -Leaf Switch / 66.2	The Switch should have redundant hot-swappable power supplies and redundant hot swappable fans. Single PS or fan failure should not impact the functioning of the switch.	A leaf switch may be mounted on the front or back of the rack depending on the use case and so should have support for both front-to-back and back-to-front airflow. So, Please modify clause as mentioned below to streamline the deployment:  "The Switch should have redundant hot-swappable power supplies and redundant hot swappable fans. Single PS or fan failure should not impact the functioning of the switch. <b>Device should be capable of supporting both front-to-back and back-to-front airflow. Installation to be done as per site requirement</b> "	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
308.	Page no. 130, 66. C15 -Leaf Switch / 66.11	The switch should support hardware based load balancing at wire speed using LACP and multi chassis ether-channel/LAG. Min 128-Way ECMP support.	multi-chassis port channel and LAG are two separate things. So, both should be supported on the system instead of optional support.	As per RFP. Bidder can provide higher specification to provide a comprehensive solution to meet RFP requirements and SLAs	<b>Mahindra Defence</b>
309.	Page no. 131, 66. C15 -Leaf Switch / 66.16	Switch Should support OISM routed multicast with EVPN VXLAN.	there is more ways than OISM to support routed multicast. So, Please modify the clause as suggested  "Switch Should support OISM/routed-multicast with EVPN VXLAN."	The bidder to comply to the conditions/ requirements at para 66 on page 131 of RFP.	<b>Mahindra Defence</b>
310.	Page no. 131, 66. C15 -Leaf Switch / 66.27	Switch should support NTP, PTP (boundary and transparent mode), SNMPv3, syslog, packet capture using Wire shark, Multiple config Files, Multiple Images, Config Roll back	tcpdump is another tool which can be used in place of wireshark. So, Please allow tcpdump as an option to wireshark tool.	The bidder to comply to the conditions/ requirements at para 66 on page 131 of RFP.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
311.	Page no. 131, 66. C15 -Leaf Switch / 66.30	Switch should support logging and searching of changes in IP route table, ARP address table an MAC address table when an entry is added or deleted from the table.	<p>please allow for the functionality to be available through additional tool in case the functionality is not available natively on the device. So, please modify the clause as:</p> <p>"Switch should support logging and searching of changes in IP route table, ARP address table and AC address table when an entry is added or deleted from the table, <b>with or without using any external tool</b>"</p>	The bidder to comply to the conditions/ requirements at para 66 on page 131 of RFP.	<b>Mahindra Defence</b>
312.	Page no. 133,67. C16- OOB Mgmt. Switch/ WAN Switch / 67.2	The switch should support Dual hot-swappable power supplies and N+1 hot swappable fans	<p>Mgmt. switch may be mounted on the front or back of the rack depending on the use case and so should have support for both front-to-back and back-to-front airflow. So, Please modify clause as mentioned below to streamline the deployment:</p> <p>"The switch should support Dual hot-swappable power supplies and N+1 hot swappable fans. <b>Device should be capable of supporting both front-to-back and back-to-front airflow. Installation to be done as per site requirement</b>"</p>	The bidder to comply to the conditions/ requirements at para 67 on page 133 of RFP.	<b>Mahindra Defence</b>
313.	Page no. 134, 67. C16- OOB Mgmt. Switch/ WAN Switch / 67.32	Operating temperature of -5°C to 40°C	All leading OEMs support <b>5°C to 40°C</b> of operating temperature. Requesting to please modify the clause accordingly.	The bidder to comply to the conditions/ requirements at para 67 on page 134 of RFP.	<b>Mahindra Defence</b>



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
314.	Page no. 135, 67. C16- OOB Mgmt. Switch/ WAN Switch / 67.46	Switch should support tracking of changes in IP route table, ARP address table and MAC address table when an entry is added or deleted from the table for logging or troubleshooting	<p>please allow for the functionality to be available through additional tool in case the functionality is not available natively on the device. So, please modify the clause as:</p> <p>"Switch should support tracking of changes in IP route table, ARP address table and MAC address table when an entry is added or deleted from the table for logging or troubleshooting, <b>with or without using any external tool</b>"</p>	The bidder to comply to the conditions/ requirements at para 67.46 on page 135 of RFP.	<b>Mahindra Defence</b>
315.	Page no. 139, 68. C17 - Core Router / 68.50	Operating temperature of -5°C to 40°C	All leading OEMs supports <b>5°C to 40°C</b> of operating temperature. Requesting to please modify the clause accordingly.	The bidder to comply to the conditions/ requirements at para 68.50 on page 139 of RFP.	<b>Mahindra Defence</b>
316.	Page no. 497, DETAILED BILL OF MATERIAL - DISASTER RECOVERY DATA CENTRE / 14 - Spine Switches	2 Nos	Spine switch is a very critical component of infrastructure and should be deployed in redundancy. As intranet and internet zones are air gaped, for redundancy in each zone at spine layer, there should be minimum of 4 quantity of spine switches. So please change the quantity to 4 nos.	The bidder to comply to the conditions/ requirements at para 14 on page 497 of RFP.	<b>Mahindra Defence</b>
317.	Page no. 497 DETAILED BILL OF MATERIAL - DISASTER RECOVERY DATA CENTRE / 18. - Core Router	2 Nos	Core router is a very critical component of infrastructure and should be deployed in redundancy. As intranet and internet zones are air gaped, for redundancy in each zone at core router, there should be minimum of 4 quantity of core routers. So please change the quantity to 4 nos.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
318.	Page no. 497 DETAILED BILL OF MATERIAL - DISASTER RECOVERY DATA CENTRE / 26 - Network Detection and Packet Tracking	1 Nos	because of the air-gapped intranet and internet, the minimum quantity of the item should be 2, so that both zones can be implemented.	The bidder to comply to the conditions/ requirements at Appendix-Q on page 495 of RFP.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
319.	Page no. 499 DETAILED BILL OF MATERIAL - NEAR LINE DATA CENTRE / 8. - Spine Switch	1 Nos	because of the air-gapped intranet and internet, the minimum quantity of the item should be 2, so that both zones can be implemented.	The bidder to comply to the conditions/ requirements at Appendix-Q on page 495 of RFP.	<b>Mahindra Defence</b>
320.	Page no. 499 DETAILED BILL OF MATERIAL - NEAR LINE DATA CENTRE / 12. Core Router	1 Nos	because of the air-gapped intranet and internet, the minimum quantity of the item should be 2, so that both zones can be implemented.	The bidder to comply to the conditions/ requirements at Appendix-Q on page 495 of RFP.	<b>Mahindra Defence</b>
321.	new Clause proposed	new Clause proposed	there is no mention of "Network Detection and Packet Tracking" in BOQ of NEAR LINE DATA CENTRE. It is suggested to add 2 qty of this item in the BOQ of near line DC also for symmetric solution across all sites. As part of the Gartner recommendation followed by the enterprises, NDR should be part of the security triad.	The bidder to comply to the conditions/ requirements at Appendix-Q on page 495 of RFP. The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Mahindra Defence</b>
322.	Pg 23 - 44.6 & Pg 457 - 2.3.3 to 2.3.7	44.6 - Civil works for only DC and DCDR. 2.3.3 to 2.3.7 suggests NLDC civil works too.	Kindly clarify if civil work is involved for NLDC too.	Yes. Civil work involved for NLDC also.	<b>ECIL</b>
323.	Pg 492 – pt e	Data Centre – Established atleast one Uptime institute certified Tier-III Data Centre in last five years. Must have established minimum 55 KW Data Centre in last five years	Please change it to “Established atleast one Tier-III data centre in last five years”. (we have established multiple Tier III data centre for our clients but they were not needed to be certified by our clients)	The bidder to comply to the conditions/ requirements at para 5 and 6 on page 492 of RFP.	<b>ECIL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
324.	33	3.1 Scalability (3.1.5)	<p>3.1.5.2 DG Set --&gt; 800 kW (N+N) Phase-1 --&gt; 400 kW x 2 Nos. Phase-2 --&gt; 400 kW x 2 Nos.</p> <p>1. Bidder understanding is that the DG quantity at the time of Phase-2 Start is 4 Nos. of DG in x kVA that will provide 400 kW power. Request to confirm.</p> <p>2. DG rating mentioned here is KW only. To match these KW rating rating may go for higher KVA. Request to confirm the DG rating once again.</p>	<p>(i) The instant bid is for Phase-I only and doesn't include the scope of Phase-II. (ii) Bidder to provide DG set of 400kW capacity in (N+N) configurations as mentioned in para 3.1.5 on page 33 of RFP.</p>	<b>L&amp;T</b>
325.	33	3.1 Scalability (3.1.5)	<p>3.1.5.6 Lithium Ion Battery --&gt; 10 Mins Backup Phase-1 --&gt; 2 Nos. Phase-2 --&gt; 2 Nos.</p> <p>1. As per bidder understanding, During phase-1, 2 nos. of battery (10 mins backup for 200kW load) need to provide &amp; for phase-2, 2 Nos. of battery need to provide (10 mins backup for 200kW load). So during phase-2, this combined 4 Nos. of batteries (2 Nos. for each UPS) will provide 10 mins backup for 400 kW load UPS. Request to clarify &amp; confirm again.</p> <p>2. Kindly mention the duration between Phase-1 &amp; Phase-2 gap or initiation period. This will help bidder to consider the equipment replacement if any in between.</p>	<p>The instant bid is for Phase-I only and doesn't include the scope of Phase-II. Bidder to provide the Lithium Ion battery as per Sl. 3.1.5.6 of Para 3.1.5 on page 33.</p>	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
326.	33	3.1 Scalability (3.1.5)	<p>3.1.5.7 PAC --&gt; 108 TR Phase-1 --&gt; 27 TR x 3 Nos. (N+1) Phase-2 --&gt; 27 TR x 2 Nos. (N+1)</p> <p>As per PAC rating for phase wise in RFP requirement, bidder understanding is mentioned below, Kindly check &amp; confirm.</p> <p>a. Phase-1 PAC requirement is 54TR (2 working +1 standby) b. Phase-2 overall requirement of PAC is 108TR (4 working + 1 standby) units need to provide.</p>	As per conditions mentioned in RFP-1st Phase Requirement is : 27 TR x 3 No (N+1) 2nd Phase Requirement is beyond scope of this RFP.	<b>L&amp;T</b>
327.	37	6. Scope of Work	<p>6.15 Life safety and security systems with following facilities</p> <p>Kindly clarify the scope of PAS, Bollards, Baggage scanner, metal detectors &amp; under vehicle scanning is with customer or bidder. If mentioned items are in bidders scope then kindly provide the specification of the same.</p>	As per para 6.15 on page 37, bidder has to provide the life safety and security systems with facilities. Also, bidder has to propose the latest specifications of the equipment to get certified by Uptime institute.	<b>L&amp;T</b>
328.	40	8.1 UPS Specification	<p>8.1.5. The power module shall be hot swappable and while the system is running live, removing, or replacing power modules shall have no impact on the load. It should be possible to add or replace power modules without switching the load to bypass source. Notification should be provided on the UPS integrated display for add or removal of power module.</p> <p>Kindly confirm any redundancy need to consider in UPS power modules (i.e. N+1 power modules)</p>	Bidder to bid as per sl. 3.1.5.5. of para 3.1.5 on page 33 of RFP.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
329.	42	8.5 Lighting & Raw power distribution	8.5.1 Lighting to be designed for the illumination level of 500 Lux. At server room and 300 - 350 Lux. at UPS room.  Request to mention the lux level for all rooms available in the DC locations.	Bidder has to provide the lux level of all other rooms of DC, DRDC & NLDC as per the CIVIL architecture proposed by bidder in their technical proposal.	<b>L&amp;T</b>
330.	45	8.8.2 CCTV System	8.8.2.1 Server room, generator area, parking, telecom, NOC, BMS, and UPS room shall be covered using high resolution, fixed dome camera closed circuit video surveillance.  8.8.2.2 Perimeter Security using CCTV  1. Bidder understanding is that the fixed dome camera only will be used for all location (indoor & outdoor). Please clarify. 2. Any other camera need to consider for perimeter security solution or only with fixed dome camera only. Request to clarify. 3. Kindly share the detailed technical solution for perimeter security system.	Bidder to propose a latest and workable solution for the perimeter security.	<b>L&amp;T</b>
331.	48	13. High level Bill of material	13.13 DG set 320 kVA with AMF  Contradictory in the DG rating between Cl-3.1.5.2 (Pg:33) & Cl-13.13. Kindly clarify, which one needs to consider and request to update the same in the RFP.	Bidder to provide DG set of 400kW capacity in (N+N) configurations as mentioned in para 3.1.5 on page 33 of RFP.	<b>L&amp;T</b>
332.		3.1 Scalability (3.1.5)	3.1.5.2 DG Set --> 800 kW (N+N) Phase-1 --> 400 kW x 2 Nos. Phase-2 --> 400 kW x 2 Nos.		<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
333.	48	13. High level Bill of material	<p>13.17 Videowall</p> <p>1. Videowall asked in RFP for the purpose of CCC &amp; SOC (i.e., 2 Nos for DC) whereas BOM mentioned only for 1 Nos. Kindly clarify &amp; update.</p> <p>2. Many details/sizes mentioned in different location of RFP, ( i.e Specification (CI-6.13; Pg:36) &amp; BOM (CI-13.17; Pg:48)). As per BOM bidders understanding is that the No. of matrix for videowall is 4 Nos. of 55" wall need to consider for Command centre area to achieve 30'x10' sizes. Same way kindly provide the matrix details of videowall for SOC.</p>	<p>As per Para 6.13 on Page 36, Para 24.15 on page 57, Para 344.17 on page 65 of RFP, Bidder has to provide video wall with all accessories and analytic software with following specifications:-</p> <p><u>Command Centre Display (CCD)</u> to provide single-pane-of-glass-monitoring of DC, DR, NLDC, ROBO, WAN, Applications spanning across ICG IT systems. CCD Should use entire canvas, support upto 4K resolution, seamless screen and render information through advanced graphs/ charts, using enterprise grade BI software. CCD to integrate with various IT systems, applications through enterprises grade Robotic Process Automation (RPA) of minimum 25 bots to acquired through native REST API, screen capture, APIs with EMS, NMS, ERP systems, Database systems, SDWAN, IP Phones, desktop computers, NGFW systems etc.</p> <p><u>Command &amp; Control Analytics and Data Visualisation Software with RPA Command &amp; Control Analytics and Data Visualisation Software with RPA:</u> Should provide Server based Analytics and Data Visualisation, Auto-refreshing views, Black</p>	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
				<p>Background. Dashboard layouts for big screens, Display to use entire canvas, Auto-refreshing views. Should support data from various sources using native connectors, Value stored in NoSQL database such as MongoDB/ Oracle, PostgreSQL, REST API, Excel Files, Hadoop. CCDV should provide rich set of configurable Charts/ Graphs, Should support all latest OS versions, Generate tasks by dragging and dropping the items from the toolbox, On-demand enterprise-grade platform for RPA bot, Augmented data discovery, Interactive visual exploration, Embedding of analytic content, Publish, share and collaborate on analytic content, Analytic dashboards, Data preparation, Data storage and loading options, Metadata management, Data source connectivity and ingestion.</p>	
334.	49 to 53	14 to 18	<p>DC Floor layouts, Rack layout &amp; SLDs</p> <p>Shared floor layouts and SLD are not readable or visible. Kindly share the clear layout &amp; diagram for better understanding and reference.</p>	<p>All layouts published in RFP are indicative design layouts. Bidder needs to provide the layout of DC, DRDC and NLDC along with the technical proposal.</p>	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
335.	58	22.1.7	<p>Double conversion online modular UPS to cater for 90kW load in Phase-1. Similar capacity need to be added in future. Modular UPS to have 1+1 bank of 100kW and also each UPS bank to be in N+N configuration to provide adequate high availability.</p> <p>1. Kindly share the entire rating details of electrical &amp; cooling DR location (As like mentioned for DC locations Cl:83.1.5; Pg: 33).  2. Contradictory in the UPS rating between Cl:22.1.7 and Cl:27.1.1. Request to clarify &amp; update the same.  3. Please clarify whether UPS bank mentioned in specification (cl:22.1.7) is referred for UPS battery bank or UPS system.  4. Contradictory in the redundancy of UPS system between Cl:22.1.7 and Cl:22.5. Kindly clarify. (N+1 or N+N)</p>	<p>(a) Bidder has to provision modular UPS to cater 200kW (N+N) load as per para 27.1 on page 58.  (b) UPS specifications are given at para 8 on page 40 for DC. Para 27 on page 58 for DR. Para 43 on page 77 for NLDC. Vendor to propose suitable solution as per RFP requirement. The UPS should be with 3 phase Fully Rated Pluggable Hot Swappable Static Switch Module (On Line Draw In/Out) shall be provided. Sub Power modules shall be swappable without putting the UPS in bypass/battery operation.</p>	L&T
336.	58	22.5 Redundancy	22.5.1 Modular UPS in N+1 configuration		L&T
337.	58	27.1 UPS specification	27.1.1 UPS to cater Phase-1 load i.e. 200 kVA with 10 mins backup with Lithium-Ion battery backup suitable to scale upto 400 kVA with N+N configuration to cater Phase-1 and Phase-II loads. The UPS should be the latest state of the art modular system and shall be a single unit, complete with modular, parallel redundancy. UPS standard like EN 62040-1:2008, 2011 and 2013 must be followed.		L&T



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
338.	60	27.4 Lighting & Raw power distribution	<p>27.4.1 Lighting to be designed for the illumination level of 500 Lux. At server room and 300 - 350 Lux. at UPS room.</p> <p>Request to mention the lux level for all rooms available in the DR locations.</p>	Bidder has to provide the lux level of all other rooms of DC, DRDC & NLDC as per the CIVIL architecture proposed by bidder in their technical proposal.	<b>L&amp;T</b>
339.	61	29.2 CCTV System	<p>29.2.1 Server room, generator area, parking, telecom, NOC, BMS, and UPS room shall be covered using high resolution, fixed dome camera closed circuit video surveillance.</p> <p>29.2.2 Perimeter Security using CCTV</p> <p>29.2.3 All camera should be of IP camera with POE+ &amp; ONVIF compliance for better integration with other BMS system</p> <p>1. Bidder understanding is that the fixed dome camera only will be used for all location (indoor &amp; outdoor). Please clarify.</p> <p>2. Any other camera need to consider for perimeter security solution or only with fixed dome camera only. Request to clarify.</p> <p>3. Kindly share the detailed technical solution for perimeter security system.</p> <p>4. Camera connector in DR asked is POE+, which is higher than DC location camera features (i.e. POE). Request to clarify the purpose of higher features in the DR locations or bidder suggest to change the same to POE same as DC location or update as POE/POE+.</p>	Bidder to propose a latest and workable solution for the perimeter security.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
340.	65	34. High level bill of material	<p>34.4 Modular UPS 200 kVA Scalable to 400 kVA for server room</p> <p>34.13 DG set 150 kVA with AMF</p> <p>DG rating lower than the UPS rating. As per power distribution philosophy DG at source / supplying end need to be higher than the sub distribution end (i.e. UPS, Panels etc..). Request to clarify</p>	As per sl. 34.4 & 34.13 on page 65, bidder to provide 01 Set (Qty -02, N+N), DG set of 150 kVA with AMF. However, 1 in number modular UPS 200kVA scalable to 400 kVA for Server room.	<b>L&amp;T</b>
341.	67 to 71	35.1 to 35.5	<p>DR Floor layouts, Rack layout &amp; SLD</p> <p>Shared floor layouts and SLD are not readable or visible. Kindly share the clear layout &amp; diagram for better understanding and reference.</p>	All layouts published in RFP are indicative design layouts. Bidder needs to provide the layout of DC, DRDC and NLDC along with the technical proposal in accordance with Uptime institute guidelines.	<b>L&amp;T</b>
342.	73	40. Design Requirement	<p>40.4 The cold aisle containment with perimeter cooling solution should be provided.</p> <p>Contradictory in the aisle requirement for NLDC. Both cold aisle &amp; hot aisle containment is asked. Request to clarify.</p>	The conditions at para 40.6 on page 73 of RFP are to be complied.	<b>L&amp;T</b>
343.	79	44. Cooling Woks	Closed coupled in-row cooling with hot and cold aisle containment. Suitable monitoring software to be provided for monitoring the complete health of the cooling solution.		<b>L&amp;T</b>
344.	79	43.5 Lighting & Raw power distribution	<p>43.5.1 Lighting to be designed for the illumination level of 500 Lux. At server room and 300 - 350 Lux. at UPS room.</p> <p>Request to mention the lux level for all rooms available in the NLDC locations.</p>	Bidder has to provide the lux level of all other rooms of DC, DRDC & NLDC as per the CIVIL architecture proposed by bidder in their technical proposal.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
345.	83	49. High Level of Bill of material	General  AS per BOM & specification details, transformer / raw power supply required for NLDC will be made ready by customer and feeder to fed to be provided by customer. Kindly clarify.	Raw power supply supply will be provided by the ICG.	L&T
346.	84 to 85	50 & 51	NLDC Floor layouts, Rack layout & SLD  Shared floor layouts and SLD are not readable or visible. Kindly share the clear layout & diagram for better understanding and reference.	All layouts published in RFP are indicative design layouts. Bidder needs to provide the layout of DC, DRDC and NLDC along with the technical proposal.	L&T
347.	-	General	General  Since transformer & DG rating is mentioned in BOM, generic technical details like UPS for DG & transformer is not available in DC, DR locations. Kindly provide the same.	Capacity required for DG & Transformers mentioned in the RFP. Accordingly, bidder to provide the DG and transformer with latest and workable specification.	L&T
348.	-	General	General  To freeze OEM on technical perspective, need detailed technical specification on complete Non-IT equipment (i.e., UPS, DG, Transformer, Cooling, structured cabling, rack, IPDU, DCIM, BMS system, safety & security system etc..). Request to provide.		L&T
349.	-	General	General  Electrical scope for DC & DR as per RFP, bidder scope will start from transformer till other power system and HV/LV feeder & power cable till transformer will be in the scope of customer. Request to confirm.	Yes.	L&T

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
350.	-	General	<p>General</p> <p>Electrical scope for NLDC as per RFP, bidder scope will start from Main distribution panel till other power system and feeder to main panel, power cable till main panel and transformer will be in the scope of customer. Request to confirm.</p>		<b>L&amp;T</b>
351.	35	3.9 Integration & Migration of data	<p>Vendor should Implement the private cloud for buyer and Implement the functional requirements fully with the supplied and existing hardware/ software (Annexure I &amp; II) I.e., Integration with manager of the hypervisor, Software Defined Network and storage, etc. Migration of data In the new system Is responsibility of the bidder. ICG along with bidder will jointly decide on what data will be migrated and will take the responsibility of collecting and making the data available In digitized form as per the format suggested by the bidder. A detailed plan for data migration is expected from the bidder during the Initial stages of the project, which will Include data to be migrated, templates for upload of data and data collection/digitization/migration timelines</p> <p>Request to specify on the data migration component over here. Please specify the data that needs to be migrated with the capacity. Whether application vendor's support will be there and covered by client while performing the migration process.</p>	Details of data migrations Will be shared post signing of the contract as mentioned at para 3.9 on page 35 of this RFP	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
352.	63	30 Software Defined Data Centre enabled server, server chassis, software, main storage and backup tape storage systems	<p>Detailed minimum sizing and IT infrastructure technical specifications</p> <p>Request to check whether the desired project architecture requirement can be revisited by considering modern technologies of reducing the overall data center IT footprint, power and cooling requirements with a flexible and simplified approach of having a private cloud.</p>	The bidder to comply to the conditions/ requirements at para 30 on page 63 of RFP.	<b>L&amp;T</b>
353.	63	30 Installation and Support	<p>Installation support for all related software, hardware, networking, storage configuration Including Windows 2016 Active Directory, Virtualization, Backup and User/Administrator setup.</p> <p>The existing Windows Server Software in use is of 2022 version. Version of 2016 being asked in bit-outdated. Do let us know is there any specific reason if Windows 2016 Active directory is required.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
354.	86	52 Cloud Management Platform - Automation, Orchestration & Service Catalogue	<p>52.1 - The solution should provide unified and centralized software defined platform that Integrates market leading compute, storage, networking and security virtualization and Kubernetes into a common platform to deliver enterprise-ready cloud infrastructure for the private and public cloud.</p> <p>RFP is asking for Setting up of a Private cloud deployment.</p> <p>Do we see in the near future whether ICG has any plans to go for a public cloud or a hybrid cloud deployment approach. Request</p>	The bidder to comply to the conditions/ requirements at para 52 on page 86 of RFP.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			to remove the word Public cloud if there are no plans in the near future.		
355.	86	52 Cloud Management Platform - Automation, Orchestration & Service Catalogue	<p>52.5 - The solution shall provide a unified web-based multi-tenant self-service catalogue for IaaS, PaaS and Anything-as-a-Service across virtual and physical platforms.</p> <p>Software defined data centre is more towards providing a secure, flexible and an agile deployment service approach. Request to modify the clause as "The solution shall provide a unified web-based multi-tenant self-service catalogue for IaaS, PaaS and Anything-as-a-Service"</p>	The bidder to comply to the conditions/ requirements at para 52 on page 86 of RFP.	<b>L&amp;T</b>
356.	95	53- Compute Virtualization	<p>53.4 - Live migration of VM disk from one storage array to another without any VM downtime. Support this migration from one storage protocol to another eg: FC, NFS, ISCSI, DAS.</p> <p>Request to remove the word DAS and modify as Live migration of VM disk from one storage array to another without any VM downtime. Support this migration from one storage protocol to another eg: FC, NFS, ISCSI, DAS.</p>	The bidder to comply to the conditions/ requirements at para 53 on page 95 of RFP.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
357.	97	53- Compute Virtualization	<p>53.15-Integration of 3rd party endpoint security to secure the virtual machines with offloaded antivirus, antimalware, firewall and HIPS solutions. Hypervisor to support both agentless security and agent-based security.</p> <p>53.15-Integration of 3rd party endpoint security to secure the virtual machines with offloaded antivirus, antimalware, firewall and HIPS solutions. Hypervisor to support agentless / agent-based security.</p>	The bidder to comply to the conditions/ requirements at para 53 on page 97 of RFP.	<b>L&amp;T</b>
358.	97	53- Compute Virtualization	<p>53.16 - Support boot from iSCSI, FCoE and Fibre Channel SAN. Integration with Storage APIs providing Integration with supported third-party data protection, multi-pathing and disk array solutions.</p> <p>Request to remove the word FCoE as FCoE as a protocol is out-dated and not being actively supported by many of the storage manufacturers. Request to modify clause as:</p> <p>"Support boot from iSCSI and Fibre Channel SAN. Integration with Storage APIs providing Integration with supported third-party data protection, multi-pathing and disk array solutions"</p>	The bidder to comply to the conditions/ requirements at para 53 on page 97 of RFP. Bidder to propose a workable and latest solution meeting the same.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
359.	99	54- Network and Security Virtualization	<p>54.1 - The SDN solution should be embedded in kernel highly programmable through APIs integration from a central management point and can be Integrated With major industry software management / cloud tools to automate end users service requests.</p> <p>Request to modify clause as:</p> <p>The SDN solution should be highly programmable through APIs integration from a central management point and can be Integrated With major industry software management / cloud tools to automate end users service requests.</p>	The bidder to comply to the conditions/ requirements at para 54 on page 99 of RFP.	<b>L&amp;T</b>
360.	104	58- Composable IT Infrastructure	<p>This particular term mentioned over is specific to a particular brand and the requirement needs to be generic</p> <p>Instead of Composable IT Infrastructure requirement needs to be addressed with a similar technology and all the specifications need to be modified in such a manner that other brands can compete.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
361.	107	59- Rack Server	<p>59.1 - b) Intel Xeon Gen 9 or latest Processor cache 25 MB or higher</p> <p>Recent server models are coming with the latest Intel Xeon Scalable processor family. Request to remove this line item and specify only the processor cores with the desired clock speed and processor cache</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
362.	108	59- Rack Server	<p>59.4 - Other Software - Windows 2016 Server DC Edition or latest with SA</p> <p>Present version of Windows Server Software being used is Windows Server 2022 and all Software Assurance licenses comes with a maximum of 3 year contract duration. Kindly let us know whether the licenses need to be considered and quoted with (license + 3 years SA or license + 2 years SA)</p>	As para 2(c) on Page 2, The DCG project will be under 02 yrs warranty followed by 03 yrs AIAMC. Bidder to cater the licenses and SA accordingly.	<b>L&amp;T</b>
363.	108	60- Block and File Storage Intranet	<p>60.6- Offered Storage array shall be supplied minimum with 60TB capacity using 3.84 TB drives and shall be configured In Raid 6 or equivalent excluding all overheads like RAID parity, file system etc.</p> <p>RAID 6 comes with dual distributed parity. SSD's have no moving parts and is not required to have a dual distributed parity configuration. Instead of RAID6, RAID5 can be chosen on the storage system.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
364.	109	60- Block and File Storage Intranet	<p>60.12- CPU Processing Power- Offered storage shall be based upon Intel/AMD CPUs minimum cascade lake series, and shall be supplied with at-least 40 numbers of CPU cores, Scalable to 80 CPU cores by adding multiple controllers.</p> <p>Instead of mentioning the CPU processing power, request to specify the desired storage performance IOPS number at 70:30 (Read, Write) ratio with a block size of 4KB.</p>	The bidder to comply to the conditions/ requirements at para 60\ on page 109 of RFP.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
365.	114	61- Block and File Storage Internet	<p>61.6- Offered Storage array shall be supplied minimum with 60TB capacity using 3.84 TB drives and shall be configured In Raid 6 or equivalent excluding all overheads like RAID parity, file system etc.</p> <p>RAID 6 comes with dual distributed parity. SSD's have no moving parts and is not required to have a dual distributed parity configuration. Instead of RAID6, RAID5 can be chosen on the storage system.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
366.	115	61- Block and File Storage Internet	<p>61.12- CPU Processing Power- Offered storage shall be based upon Intel/AMD CPUs minimum cascade lake series, and shall be supplied with at-least 40 numbers of CPU cores, Scalable to 80 CPU cores by adding multiple controllers.</p> <p>Instead of mentioning the CPU processing power, request to specify the desired storage performance IOPS number at 70:30 (Read, Write) ratio with a block size of 4KB.</p>	The bidder to comply to the conditions/ requirements at para 61 on page 115 of RFP.	<b>L&amp;T</b>
367.	126	65. C14 - Spine Switch / 65.3	<p>Switch should be based on industry leading standards based Virtual output queuing architecture backed with minimum 8GB of VOQ packet buffer.</p> <p>Compared to the buffer in leaf switch, the buffer on the spine switch should be higher for the no. of ports asked. Therefore, requesting to modify the clause as:</p> <p>"Switch should be based on industry leading standards based Virtual output queuing architecture backed with minimum 16GB of VOQ packet buffer"</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
368.	127	65. C14 - Spine Switch / 65.12	<p>Switch should support different logical interface types like loopback, VLAN, SVI, Port Channel, multi chassis port channel/ Link Aggregation Group (LAG) etc.</p> <p>Multi-chassis port channel and LAG are two separate things. So, both must be supported on the system instead of optional support.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
369.	127	65. C14 - Spine Switch / 65.17	<p>Switch Should support OISM routed multicast with EVPN VXLAN.</p> <p>There is more ways than OISM to support routed multicast. So, Please modify the clause as:</p> <p>"Switch Should support OISM/routed-multicast with EVPN VXLAN."</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
370.	127	65. C14 - Spine Switch / 65.2	<p>Switch should support minimum 200K MAC addresses. Minimum 8GB VOQ packet buffer on day-1.</p> <p>Compared to the buffer in leaf switch, the buffer on the spine switch should be higher for the no. of ports asked. Therefore, requesting to modify the clause as:</p> <p>"Switch should support minimum 200K MAC addresses. Minimum 16GB VOQ packet buffer on day-1."</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
371.	128	65. C14 - Spine Switch / 65.28	<p>Switch should support NTP, PTP (boundary and transparent mode), SNMPv3, syslog, packet capture using Wire shark, Multiple config Files, Multiple Images, Config Roll back</p> <p>Tcpdump is another tool which can be used in place of wireshark. So, Please allow tcpdump as an option to wireshark tool.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
372.	128	65. C14 - Spine Switch / 65.31	<p>Switch should support logging and searching of changes in IP route table, ARP address table and AC address table when an entry is added or deleted from the table.</p> <p>Please allow for the functionality to be available through additional tool in case the functionality is not available natively on the device. So, please modify the clause as:</p> <p>"Switch should support logging and searching of changes in IP route table, ARP address table and AC address table when an entry is added or deleted from the table, with or without using any external tool"</p>	The bidder to comply to the conditions/ requirements at para 65 on page 128 of RFP.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
373.	130	66. C15 -Leaf Switch / 66.2	<p>The Switch should have redundant hot-swappable power supplies and redundant hot swappable fans. Single PS or fan failure should not impact the functioning of the switch.</p> <p>A leaf switch may be mounted on the front or back of the rack depending on the use case and so should have support for both front-to-back and back-to-front airflow. So, Please modify clause as mentioned below to streamline the deployment:</p> <p>"The Switch should have redundant hot-swappable power supplies and redundant hot swappable fans. Single PS or fan failure should not impact the functioning of the switch. Device should be capable of supporting both front-to-back and back-to-front airflow. Installation to be done as per site requirement"</p>	The bidder to comply to the conditions/ requirements at para 66 on page 130 of RFP.	<b>L&amp;T</b>
374.	130	66. C15 -Leaf Switch / 66.11	<p>The switch should support hardware based load balancing at wire speed using LACP and multi chassis ether-channel/LAG. Min 128-Way ECMP support.</p> <p>Multi-chassis port channel and LAG are two separate things. So, both should be supported on the system instead of optional support.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
375.	131	66. C15 -Leaf Switch / 66.16	<p>Switch Should support OISM routed multicast with EVPN VXLAN.</p> <p>There is more ways than OISM to support routed multicast. So, Please modify the clause as:</p> <p>"Switch Should support OISM/routed-multicast with EVPN VXLAN."</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
376.	131	66. C15 -Leaf Switch / 66.27	<p>Switch should support NTP, PTP (boundary and transparent mode), SNMPv3, syslog, packet capture using Wire shark, Multiple config Files, Multiple Images, Config Roll back</p> <p>Tcp dump is another tool which can be used in place of wireshark. So, Please allow tcp dump as an option to wire shark tool.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
377.	131	66. C15 -Leaf Switch / 66.30	<p>Switch should support logging and searching of changes in IP route table, ARP address table an MAC address table when an entry is added or deleted from the table.</p> <p>Please allow for the functionality to be available through additional tool in case the functionality is not available natively on the device. So, please modify the clause as:</p> <p>"Switch should support logging and searching of changes in IP route table, ARP address table and AC address table when an entry is added or deleted from the table, with or without using any external tool"</p>	The bidder to comply to the conditions/ requirements at para 66 on page 131 of RFP.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
378.	133	67. C16- OOB Mgmt. Switch/ WAN Switch / 67.2	<p>The switch should support Dual hot-swappable power supplies and N+1 hot swappable fans</p> <p>Mgmt. switch may be mounted on the front or back of the rack depending on the use case and so should have support for both front-to-back and back-to-front airflow. So, Please modify clause as mentioned below to streamline the deployment:</p> <p>"The switch should support Dual hot-swappable power supplies and N+1 hot swappable fans. Device should be capable of supporting both front-to-back and back-to-front airflow. Installation to be done as per site requirement"</p>	The bidder to comply to the conditions/ requirements at para 67 on page 133 of RFP.	<b>L&amp;T</b>
379.	134	67. C16- OOB Mgmt. Switch/ WAN Switch / 67.32	<p>Operating temperature of -5°C to 40°C</p> <p>All leading OEMs support 5°C to 40°C of operating temperature. Requesting to please modify the clause accordingly.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
380.	135	67. C16- OOB Mgmt. Switch/ WAN Switch / 67.46	<p>Switch should support tracking of changes in IP route table, ARP address table and MAC address table when an entry is added or deleted from the table for logging or troubleshooting</p> <p>Please allow for the functionality to be available through additional tool in case the functionality is not available natively on the device. So, please modify the clause as:</p> <p>"Switch should support tracking of changes in IP route table, ARP address table and MAC address table when an entry is added or deleted from the table for logging or troubleshooting, with or without using any external tool"</p>	The bidder to comply to the conditions/ requirements at para 67 on page 135 of RFP .	<b>L&amp;T</b>
381.	139	68. C17 - Core Router / 68.50	<p>Operating temperature of -5°C to 40°C</p> <p>All leading OEMs supports 5°C to 40°C of operating temperature. Requesting to please modify the clause accordingly.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
382.	143	71- SAN Switch	<p>71.3 - Should deliver 16 Gbit/Sec Non-blocking architecture with 1:1 performance for up to 24 ports or more in an energy-efficient, optimized 1U form factor.</p> <p>Request to modify the speed as 32Gbps and Should deliver 32 Gbit/Sec Non-blocking architecture with 1:1 performance for up to 24 ports or more in an energy-efficient, optimized 1U form factor as the storage specifications are asked with 32Gbps ports.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
383.	226	88 - All Flash Unified Storage	<p>88.3 - (b) Storage shall be scalable to minimum of 500TB using 900GB drives</p> <p>900GB drives is not the standard drive capacity being provided with All flash storage.</p> <p>Request to modify the same as 1.92TB / 3.84 / 7.68 / 15.36 TB</p> <p>Please also specify the storage usable capacity required after all RAID calculation, spares etc.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
384.	227	88 - All Flash Unified Storage	<p>88.5 (b) In case vendor doesn't have above ASIC functionality then additional 16GB read and writocache shall be provided per controller pair to balance the performance.</p> <p>This particular point is in favor of a particular OEM and request to delete this clause and mention a generic requirement.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
385.	227	88 - All Flash Unified Storage	<p>88.6- Architecture and Processing Power - Controllers shall be true active-active so that a single logical unit can be shared across all offered controllers In symmetrical fashion, while supporting all the major functionalities like Thin Provisioning, Data tiering etc.</p> <p>Requirement calls for a heading with All Flash Unified storage. Data tiering will not be applicable if we go for an entire storage system to be populated with flash drives. Kindly remove the word Data tiering if All Flash storage is required as part of the ERP project requirement.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
386.	227	88 - All Flash Unified Storage	<p>88.8 - SSD Support - Offered Storage-Array shall support 6Gbps dual ported 1200GB hot-pluggable Enterprise SSD hard drives, Minimum of 400GB SSD/Flash Drives along with support for SSD MDL 1TB /2TB /3TB /4TB drives.</p> <p>6Gbps Dual ported 1200GB hot-pluggable Enterprise SSD hard drives are not the present standard. Request to modify the drive interface speed from 6Gbps to 12Gbps for better performance and also modify the drive capacity being mentioned. MDL drives asked over here are used by a specific storage OEM and request to modify the same as general so that other storage OEMs can also participate.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
387.	227	88 - All Flash Unified Storage	<p>88.12 - Offered Storage array shall support all well known protocols like FC, ISCSI, FCOE, SMB 3.0, NFS V4, NDMP etc.</p> <p>Request to remove the FCOE protocol support as this Storage protocol was not actively supported by major storage OEM players in their present and new storage offerings.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
388.	228	88 - All Flash Unified Storage	<p>88.13 - Host ports and Back end ports - (a) Offered Storage shall have minimum of 4 host ports for connectivity to servers running at 8Gbps speed and shall be scalable to 8 host ports, Offered Storage shall also support:</p> <p>(i) Additional Quad number of 10Gbps ISCSI/ FCOE ports.</p> <p>(ii) Along with ISCSI/ FCOE ports, additional Quad number of 10Gbps IP ports or eight numbers of 1Gbps IP ports for file services operations.</p> <p>(c) Offered storage shall have minimum of 16 SAS lanes running at 6Gbps speed and shall be scalable to 32 SAS lanes without any controller change.</p> <p>8Gbps standard mentioned is older and request to modify the same as 32Gbps for better application performance. Request to remove the FCOE word. Offered storage shall have minimum of 16 SAS lanes running at 12Gbps speed instead of 6Gbps Speed for better application performance.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
389.	228	88 - All Flash Unified Storage	<p>88.21 - Storage Tiering - (b) For effective data tiering, Storage subsystem shall support automatically Policy based Sub-LUN Data Migration from one Set of drive tier to another set of drive tier.</p> <p>RFP calls for All Flash system, hence data tiering would not applicable. Kindly modify the clause accordingly.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
390.	232	90- Composable IT Infrastructure	<p>This particular term mentioned over is specific to a particular brand and the requirement needs to be generic</p> <p>Instead of Composable IT Infrastructure requirement needs to be addressed with a similar technology and all the specifications need to be modified in such a manner that other brands can compete.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
391.	243	92- Backup, Recovery & Replication for Business Continuity	<p>92.3- The proposed Backup software must offer host based/ CPU based licensing with no restrictions on type of arrays (protecting heterogeneous storage technologies), front end production capacity or backend backup target capacity for virtual or physical servers. Licenses and associated hardware should be supplied for DC, DR DC &amp; ROBO as required.</p> <p>Request to modify this as The proposed Backup software must offer host based/ CPU based licensing. Certain OEMs protect the data available on storage depending on the storage architecture deployment parameter. Kindly specify the data storage capacity and corresponding make and</p>	The bidder to comply to the conditions/ requirements at para 92 on page 243 of RFP.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			model number which needs to be protected as part of the requirement.		
392.	250	94- Rack Server	<p>94.1 - b) Intel Xeon Gen 9 or latest Processor cache 25 MB or higher</p> <p>Recent server models are coming with the latest Intel Xeon Scalable processor family. Request to remove this line item and specify only the processor cores with the desired clock speed and processor cache</p>	Bidder has to comply RFP requirement. Bidder to propose a workable and latest solution meeting the same.	<b>L&amp;T</b>
393.	386	Manning plan and Recruitment	<p>236-Migration of HR data - Should migrate existing HR data into SAFAL ERPs</p> <p>Hope the existing HR application vendor support is in place before performing this migration process. Kindly specify the data capacity to be migrated.</p>	Details pertaining to the migration of data will be shared during the SRS phase and data will be provided in the prescribed format by ICG.	<b>L&amp;T</b>
394.	497	DETAILED BILL OF MATERIAL - DISASTER RECOVERY DATA CENTRE / 14 - Spine Switches	<p>2 Nos</p> <p>Spine switch is a very critical component of infrastructure and should be deployed in redundancy. As intranet and internet zones are air gaped, for redundancy in each zone at spine layer, there should be minimum of 4 quantity of spine switches. So please change the quantity to 4 nos.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
395.	497	DETAILED BILL OF MATERIAL - DISASTER RECOVERY DATA CENTRE / 18. - Core Router	2 Nos Core router is a very critical component of infrastructure and should be deployed in redundancy. As intranet and internet zones are air gaped, for redundancy in each zone at core router, there should be minimum of 4 quantity of core routers. So please change the quantity to 4 nos.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
396.	497	DETAILED BILL OF MATERIAL - DISASTER RECOVERY DATA CENTRE / 26 - Network Detection and Packet Tracking	1 Nos Because of the air-gapped intranet and internet, the minimum quantity of the item should be 2, so that both zones can be implemented.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
397.	499	DETAILED BILL OF MATERIAL - NEAR LINE DATA CENTRE / 8. - Spine Switch	1 Nos Because of the air-gapped intranet and internet, the minimum quantity of the item should be 2, so that both zones can be implemented.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
398.	499	DETAILED BILL OF MATERIAL - NEAR LINE DATA CENTRE / 12. Core Router	1 Nos Because of the air-gapped intranet and internet, the minimum quantity of the item should be 2, so that both zones can be implemented.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
399.	new Clause proposed	new Clause proposed	<p>new Clause proposed</p> <p>There is no mention of "Network Detection and Packet Tracking" in BOQ of NEAR LINE DATA CENTRE. It is suggested to add 2 qty of this item in the BOQ of near line DC also for symmetric solution across all sites. As part of the Gartner recommendation followed by the enterprises, NDR should be part of the security triad.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>L&amp;T</b>
400.	47	12.4	<p>Work stations: 120 work stations of data centre specification to be provisioned in DC. Cabin to cubical ration is 20:80. Size of the cabin - 10'X15' and cubicles - 8'X6'. Each cabin/cubical to be equipped with one Desktop computer (minimum i7 or equivalent processor, RAM - DDR4 8GB &amp; Storage 1TB, 22" LED Monitor, 1kVA UPS). DC to be provided with 04 Heavy Duty MFDs and 15 printers each (05 color and 10 BW)</p> <p>The specifications for UPS is not given hence bidder is considering the following:  1. 1 kVA Online UPS with in built battery (20 mins of battery backup for workstation and monitor load only)  2. Each Workstation system will have separate UPS  Kindly confirm our consideration.</p>	Bidder's understanding is as per the ICG requirement.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
401.	47	12.4	<p>Work stations: 120 work stations of data centre specification to be provisioned in DC. Cabin to cubical ration is 20:80. Size of the cabin - 10'X15' and cubicles - 8'X6'. Each cabin/cubical to be equipped with one Desktop computer (minimum i7 or equivalent processor, RAM - DDR4 8GB &amp; Storage 1TB, 22" LED Monitor, 1kVA UPS). DC to be provided with 04 Heavy Duty MFDs and 15 printers each (05 color and 10 BW)</p> <p>The specifications for Heavy Duty MFDs &amp; Printers are not given hence requesting to provide specification of the following:</p> <ol style="list-style-type: none"> <li>1. Heavy Duty MFDs</li> <li>2. Printers - color</li> <li>3. Printers - Black and white</li> </ol>	Bidders to propose latest and advanced technology Heavy Duty MFDs & printers.	L&T
402.	36 & 48	6.13 & 13.17	<p>Video wall for 24 X 7 monitoring, Super Narrow Bezel LED Display, 24 X 7 rated, Full - HD, 700 nit, HTML5 browser, 30' X 10' in tile configuration with accessories for "Command centre" and "20'X 10' for security operation (SOC) &amp;</p> <p>Video wall for 24 X 7 monitoring, Super Narrow Bezel LED Display, 24 X 7 rated, 4 X 55" in tile configuration with accessories. (1 Nos)</p> <p>The clause 6.13 &amp; 13.17 are contradictory in terms of matrix (dimension) &amp; Video wall system Qty as 30'X10' tile configuration (for CC) &amp; 20'X10' tile configuration (for SOC) is asked while 4 X 55" matrix is mentioned in BoM (1 Nos).</p>	<p>As per Para 6.13 on Page 36, Para 24.15 on page 57, Para 344.17 on page 65 of RFP, Bidder has to provide video wall with all accessories and analytic software with following specifications:-</p> <p>Command Centre Display (CCD) to provide single-pane-of-glass-monitoring of DC, DR, NLDC, ROBO, WAN, Applications spanning across ICG IT systems. CCD Should use entire canvas, support upto 4K resolution, seamless screen and render information through advanced graphs/ charts, using enterprise grade BI software. CCD to integrate with various IT</p>	L&T



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>1. Please provide video wall system quantity with matrix separately for command control &amp; SOC, also add in BoM.</p> <p>2. Please provide details specifications for video wall &amp; controller.</p>	<p>systems, applications through enterprises grade Robotic Process Automation (RPA) of minimum 25 bots to acquired through native REST API, screen capture, APIs with EMS, NMS, ERP systems, Database systems, SDWAN, IP Phones, desktop computers, NGFW systems etc.</p>	
403.	57 & 66	57 & 34.17	<p>Video wall for 24 X 7 monitoring, Super Narrow Bezel LED Display, 24 X 7 rated, Full - HD, 700 nit, HTML5 browser, 30' X 10' in tile configuration with accessories for " Command centre" and "20'X 10' for security operation (SOC) (BOM - 1 set)</p> <p>1. Please provide video wall system quantity with matrix separately for command control &amp; SOC, also add in BoM.</p> <p>2. Please provide details specifications for video wall &amp; controller.</p>	<p>Command &amp; Control Analytics and Data Visualisation Software with RPA Command &amp; Control Analytics and Data Visualisation Software with RPA: Should provide Server based Analytics and Data Visualisation, Auto-refreshing views, Black Background. Dashboard layouts for big screens, Display to use entire canvas, Auto-refreshing views. Should support data from various sources using native connectors, Value stored in NoSQL database such as MongoDB/ Oracle, PostgreSQL, REST API, Excel Files, Hadoop. CCDV should provide rich set of configurable Charts/ Graphs, Should support all latest OS versions, Generate tasks by dragging and dropping the items from the toolbox, On-demand enterprise-grade platform for RPA bot, Augmented data discovery, Interactive visual exploration, Embedding of</p>	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
				analytic content, Publish, share and collaborate on analytic content, Analytic dashboards, Data preparation, Data storage and loading options, Metadata management, Data source connectivity and ingestion.	
404.	65	33.4	<p>120 work stations of data centre specification to be provisioned in DR. Cabin to cubical ration is 20:80, Size of the cabin - 10'X15' and cubicles - 8'X6'. Each cabin/cubical to be equipped with one Desktop computer (minimum i7 or equivalent processor, RAM - DDR4 8GB &amp; Storage 1TB, 22" LED Monitor, 1kVA UPS). DR to be provided with 04 Heavy Duty MFDs and 15 printers each (05 color and 10 BW)</p> <p>The specifications for UPS is not given hence bidder is considering the following:  1. 1 kVA Online UPS with in built battery (30 mins of battery backup for workstation and monitor load only)  2. Each Workstation system will have separate UPS</p> <p>Kindly confirm our consideration.</p>	Bidder's understanding is as per the ICG requirement.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
405.	65	33.4	<p>120 work stations of data centre specification to be provisioned in DR. Cabin to cubical ration is 20:80, Size of the cabin - 10'X15' and cubicles - 8'X6'. Each cabin/cubical to be equipped with one Desktop computer (minimum i7 or equivalent processor, RAM - DDR4 8GB &amp; Storage 1TB, 22" LED Monitor, 1kVA UPS). DR to be provided with 04 Heavy Duty MFDs and 15 printers each (05 color and 10 BW)</p> <p>The specifications for Heavy Duty MFDs &amp; Printers are not given hence requesting to provide specification of the following:</p> <ol style="list-style-type: none"> <li>1. Heavy Duty MFDs</li> <li>2. Printers - color</li> <li>3. Printers - Black and white</li> </ol>	Bidders to propose latest and advanced technology Heavy Duty MFDs & printers.	<b>L&amp;T</b>
406.	17/30. Technical Details	30.1 The technical details should be factual, comprehensive and include specifications of the offered system/ equipment being used as part of the IT Infrastructure, ERP package, enterprise emailing system and Central Portal as a whole and each module independently against broad requirements listed in Appendix A to this RFP. Project Digital Coast Guard broadly cover following: -	Is providing email solution part of this RFP? If yes please provide the specifications along with the number of users and the number of average email send and received per day during the tenure of the contract.	Bidder to bid as per the technical details placed at Para 30.1.1 to 30.1.4 on page 18 of RFP.	<b>TCS</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
407.	18/30	Technical Details	<p>As per our understanding following would be the implementation scope for software defined data Centre: Deployment of software define data centre technologies for Intranet Zone as per following:</p> <ul style="list-style-type: none"> <li>• Deployment of virtualization platform using proposed hypervisor and hypervisor management tool across DC, NLDC, DR</li> <li>• Deployment of log management and operations tool across DC, NLDC, DR for proposed virtualization platform</li> <li>• Deployment of Software Defined network and integrate with virtualization platform across DC, NLDC, DR</li> <li>• Implement software defined network to provide capabilities like distributed IDS/IPS</li> <li>• Enable micro segmentation, distributed firewalls, gateway firewalls, advanced load balancer capability for applications across DC, NLDC, DR</li> <li>• Implement container platform at DC &amp; DR, deploy 2 Kubernetes workload environments and demonstrate one sample workload on container platform</li> <li>• Deployment of cloud management platform at Primary DC and failover to DR site.</li> <li>• Configure cloud management platform to manage and deploy VM workloads across DC, NLDC, DR</li> <li>• Configure proposed cloud management platform to have a service catalogue for Infrastructure as a service for its consumers to deploy Windows and Linux workloads across DC, NLDC, DR</li> </ul>	<p>1. Scope for the DC, DRDC &amp; NLDC has been placed at Appendix - "A".</p> <p>2. Project timeline placed at para 44 of Part-II of RFP on page 22.</p>	<b>TCS</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<ul style="list-style-type: none"> <li>Integrate cloud management platform to configure network and security during workload provisioning</li> <li>Implement workload failover orchestration and replication from DC/NLDC to DR via proposed DR automation tool</li> </ul> Deployment of virtualization platform using proposed hypervisor and hypervisor management tool at DC and DR for Internet Zone. <b>[Request to define the scope to factor appropriate implementation scope and timelines for the project]</b>		
408.	33/Appendix A Section-3.1.5/	DG set requirement in Phase -1	At page no. 33 DG set capacity mentioned is 400 kW and on page no. 48 point no. 13.13 DG capacity mentioned is 320 kW. Pls clarify.	Bidder to provide DG set of 400kW capacity in (N+N) configurations as mentioned in para 3.1.5 on page 33 of RFP.	<b>TCS</b>
409.	33/Appendix A Section-3.1.5/	Capacity of Modular UPS system	At page no. 33 Modular UPS capacity mentioned is 400 kVA/kW and on page no. 40 Clause 8.1 UPS chassis mentioned scalable upto 500 kVA/ kW. Pls clarify.	Bidder to provide Modular UPS of 200kW capacity in (N+N) configurations as mentioned in para 3.1.3 on page 33 of RFP.	<b>TCS</b>
410.	33/Appendix A Section-3.1.5/	PAC unit ratings	At page no. 33 PAC rating mentioned is 27 TR and on page no. 52 in DC layout PAC rating shown 30 TR. Pls clarify.	Bidder to provide PAC rating 27 TR as mentioned in para 3.1.5 on page 33 of RFP.	<b>TCS</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
411.	35/3.9. Integration and Migration of Data	<p>3.9. Integration and Migration of Data. Vendor should Implement the private cloud for buyer and implement the functional requirements fully with the supplied and existing hardware/ software (Annexure I &amp; II. I.e., Integration with manager of the hypervisor, Software Defined Network and storage, etc. Migration of data In the new system is responsibility of the bidder ICG along with bidder will jointly decide on what data will be migrated and will take the responsibility of collecting and making the data available In digitized form as per the format suggested by the bidder. A detailed plan for data migration is expected from the bidder during the initial stages of the project, which will include data to be migrated, templates for upload of data and data collection/digitization/migration timelines.</p>	<p>1. In case of data Migration please provide the the number of tables/ entities for which the data is to be migrated. Also provide the average number of attributes per entity that have to be migrated.</p>	<p>Details of data migrations Will be shared post signing of the contract as mentioned at para 3.9 on page 35 of this RFP</p>	<b>TCS</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
412.	35/3.9. Integration and Migration of Data	3.9. Integration and Migration of Data. Vendor should Implement the private cloud for buyer and implement the functional requirements fully with the supplied and missing hardware/ software (Annawre I & !. I.e., Integration with manager of the hypervisor, Software Defined Network and storage, etc. Migration of data In the new. system is responsibility of the bidder ICG along with bidder will jointly decide on what data will be migrated and will take the responsibility of collecting and making the data available In digitized form as per the format suggested by the bidder. A detailed plan for data migration is expected from the bidder during the initial stages of the project, which will include data to be migrated, templates for upload of data and data collection/digitization/migration timelines.	1. Please confirm that the data will be provided in predefined templates by the department in case of collection of data. 2. In case of Data Digitization please provide the following information a. Please specify how much data has to be digitized, like total number of pages and size of each page. b. In case scanning is required please specify that the scanners will be provided by the department at a single location. c. All the data which is to be digitized using scanners will be provided by the at one location by the department d. After digitization, the responsibility of verification of the digitized data will be verified by the department.	Details of data migrations Will be shared post signing of the contract as mentioned at para 3.9 on page 35 of this RFP	<b>TCS</b>
413.	42/Section 8.2/ P	Battery Specifications	Pls also add LMO type Lithium Batteries.	Bidder has to comply RFP requirement.	<b>TCS</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
414.	48/Section 13/	High level Bill of material	There is only supply of rack for (both the phases). Not loading of racks (phase -2). Pls clarify	Bidder to provide following racks:- DC - 34 racks (Para 13, page 48 of RFP). DRDC - 18 racks (Para 34, Page 65 of RFP). NLDC - 5 racks (Para 49, page 83 of RFP). All racks will be fitted with ICT components as specified in Appendix-Q of the RFP.	TCS
415.	49/Section 14/	Suggested DC Layout & Suggested Disaster Recovery Data Centre Layout	Both DC & DR layouts are same (page no. 49 to 51 & 67 to 69). So pls share the DR layouts.	Layout provided in RFP are the indicative design. Bidder to provide the diagram of civil architecture of DC, DRDC & NLDC along with the technical proposal.	TCS
416.	49/ Section-14/	Suggested Layout Ground floor	Please provide earthing location and distance from server room.		TCS
417.	49/Section-14/	Suggested Layout Ground floor	DG main cable to LT panel laying through cable or Trench please clarify.		TCS
418.	49/ Section-14/	Suggested Layout Ground floor	Please provide Cable length between Main LT panel to server room.		TCS
419.	49/Section-14/	Suggested Layout Ground floor	Please provide site Layout Cad drawing.		TCS
420.	50/Section-15/	Suggested Layout first Floor	Please provide Building layout and elevation Cad drawing		TCS
421.	51/ section-16/	Suggested Layout Second floor	Please provide cooling outdoor unit distance from server room.		TCS
422.	55/Section 22, Clause 22.1.5/	PUE	PUE in DC is not required. Pls confirm	The bidder to comply to the conditions/ requirements at para 22 on page 55 of RFP.	TCS
423.	58/Section 27, Clause 27.1/	UPS specifications	In DR site total IT load is 180 kVA (including both the phases) then why 400 kVA UPS system required. Pls check.	The bidder to comply to the conditions/ requirements at para 27 on page 58 of RFP.	TCS



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
424.	65/Section 34/	Data Recovery Data Centre-High level Bill of Material	DG capacity mentioned in BOM is under rated for 90 kW load in Phase-1	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	TCS
425.	73/Section 40, Point 40.6/	Design Requirement (NLDC)	At page no. 73 03 In-row units required to cater the 50 kW load. But on page no. 84 in layout only 2 in-row unit shown. Pls clarify.	The bidder to comply to the conditions/ requirements at Para 40.6 on page 73 of RFP.	TCS
426.	74/Section 40.12/	Design Sizing. Civil infrastructure of approximately 50 Sq. mtr are to be constructed for NLDC.	Pls provide the indicative layout of NLDC site other than Server farm area.	Bidder to provide the diagram of civil architecture of DC, DRDC & NLDC along with the technical proposal.	TCS
427.	94/52	Cloud Billing	We understand that requirement is for show back/ metering of resources, however no billing software is required	Only Show back/ metering capability has been asked in the solution. However, billing software is not in the current scope.	TCS
428.	101/section 55.1		Are open source community version tools be considered ?	No, only enterprise solutions will be considered.	TCS
429.	103/55.18	The Solution should be capable to determine optimal number of containers fits with the environment.	Kindly amend "The Solution should support to deploy optimal number of containers that fits with the environment based on available resources and discovery exercise." <b>[Justification: The decision regarding number of containers required is based on the discovery exercise/analysis. The container platform doesn't have the capability to decide number of container required per environment].</b>	Solution should be able to deploy optimal number of containers on available resources for containerized applications/ workload	TCS

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
430.	103/55.2	The solution should be capable of automatically keep application cluster up to date with the latest release version of container-orchestration system.	Kindly amend "The solution should be capable of keeping kubernetes application cluster up to date with the latest release version of container-orchestration system with defined commands and process." <b>[Justification: The kubernetes cluster can be easily upgraded with a single command or can be automated with the help of additional IAC tools. But in general the container platform doesn't upgrade the version automatically, as it requires impact analysis beforehand].</b>	Solution should have defined way to keep the Kubernetes clusters up to date on latest release version	<b>TCS</b>
431.	103/55.23	Solution should provide rest API to that exposes operations for managing a cluster, security and user management, application deployments, image and source builds, HTTP(s) routing and project management.	Kindly amend "Solution should provide rest API to that exposes operations for managing a cluster." <b>[Justification: Security, user management, application deployment, https routing and project management are not something a container platform should offer. Can you please provide more details around the same].</b>	Rest API should be available with solution to expose all operations for managing cluster	<b>TCS</b>
432.	103/55.24	The solution should provide an integrated networking solution (CNI implementations) as well as provide advance turnkey container networking services at Layer 2 through 7 such as DNAT/SNAT, DHCP, Load Balancers (L4 and L7) and firewall in addition to switching and routing (North-South and East-West	Kindly amend" The solution should provide an integrated networking solution (CNI implementations) as well as provide advance turnkey container networking services at Layer 2 through 7 such as DNAT/SNAT, DHCP in addition to switching and routing (North-South and East-West" <b>[Justification: Load balancer and Firewall are never been part of container platform. It is a separate products, please provide more information in this regards].</b>	Solution should integrate with Load Balancer and Firewall asked in RFP	<b>TCS</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
433.	104/55.16	Container Platform should integrate with Cloud Management Portal providing visibility into VMs and Containers with automated policy management.	Please clarify the requirement of automated policy management	Solution should support to enable identity and access management and configure policies for role based access to container platform	TCS
434.	172/74. C23- DR Automation.	OEM should provide direct support for L1, 12 and U levels 24x7x365 with unlimited indent support and 30 mins or less response time including the unlimited upgrades and updates.	<p>1. Please conform that manning the helpdesk is not in scope of this RFP</p> <p>2. If Helpdesk (L1) support is in scope, please specify the following:</p> <p>a. How many helpdesk agents will be required</p> <p>b. What all languages to be supported</p> <p>c. The non-IT infrastructure will be provided by the department like seating space, internet connectivity, phone lines and instruments, tollfree number etc..</p> <p>d. Please specify who will bear the telecom charges</p> <p>3. Can the bidder provide his own Helpdesk center from the shared services from outside Delhi?</p>	L1 support needs to be provided by the SI. However, L2 and L3 support needs to be extended to ICG by OEM / OEM certified engineers in the stipulated timeline.	TCS
435.	176/COMPLIANCE OF TECHNICAL SPECIFICATION-DC/ ORM/ NLDC COMPONENTS	76. r25- SIEM &SOAR	Kindly confirm the EPS count?	Bidder to provide solution as per the requirement given at para 76 SI C-25 on page 174 to 183 of RFP. As per requirement clearly mentioned that 1TB data ingestion (EPS - 120000 Peak)	TCS

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
436.	177/COMPLIANCE OF TECHNICAL SPECIFICATION-DC/ ORM/ NLDC COMPONENTS	76.12 The proposed solution must be able to capture all information in the original event data, logs and alerts Including payload information and redisplay them for purposes such as troubleshooting, analysis and other data processing needs. The proposed solution must be able to support caching mode of • transfer for data collection, so as to ensure data Is being logged in the event of loss of network connectivity, and resume sending of data upon network connection. For future proofing, proposed solution should be able to take feeds from proposed / existing SEEM & proposed / existing EMS solution.	Please confirm if there is any existing SIEM, if yes then please provide make and model of existing SIEM?	Requirement is capability of proposed solution to be able to ingest data/ events from any SIEM technology. The technology solutions must be able to integrate with any technology, no platform dependency. Hence, Bidder to provide solution as per the requirement given at para 76 SI C-25 on page 174 to 183 of RFP.	<b>TCS</b>
437.	223/COMPLIANCE OF TECHNICAL SPECIFICATION-DC/ ORM/ NLDC COMPONENTS	83.2. 032.2- Pia Validation and Esioner	Kindly provide the total no. of user using DSC. Also confirm the no. of transaction?	As per RFP, perpetual licenses with no users and transactions limitation, you are requested to propose same. However for hardware requirements you can consider 25 k users with 10% increment year on year	<b>TCS</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
438.	240/91	C40-Software Defined Data Center (SDDC) for DC, DR & ROBO sites	It seems like a typo. For ROBO as per bill of material compliance table C44 will be applicable. Please correct the heading as "C40-Software Defined Data Center (SDDC) for DC, DR" <b>[It seems like a typo error. Kindly remove]</b>	For ROBO compliance table C44 is applicable	<b>TCS</b>
439.	243/91.43	Should able to monitor Application, Middleware and Database for leading enterprise software systems	Please move iit to C22 enterprise Mgmt Solution Suited <b>[Justification: EMS suite has been asked in RFP, this should be part of EMS suite section]</b>	Requirement to be met by overall solution proposed by bidder	<b>TCS</b>
440.	243/91.44	Should natively support application monitoring for Oracle Fusion Middleware, Oracle Databased, Cisco CUCM for Enterprise Unified Communication and MS Exchange.	Please move iit to C22 enterprise Mgmt Solution Suited [Justification: EMS suite has been asked in RFP, this should be part of EMS suite section]	Requirement to be met by overall solution proposed by bidder	<b>TCS</b>
441.	247/93.17	Should be application aware and provide Full Proxy for protocols such as HTTP, HTTPS, FTP, SIP, DNS, Diameter, RADIUS etc.	Request to kindly amend the clause "Should be application aware and provide Full Proxy for protocols such as HTTP, HTTPS, FTP, SIP, DNS, RADIUS etc." <b>[Diameter Protocol is generally used in Telco segment for AAA. If this protocol is required for Coast Guard, can you kindly let us know the use case. If this is not required, request you to kindly remove this protocol from this RFP].</b>	Mentioned capability is required as part of solution. Bidder to bid as per RFP specifications.	<b>TCS</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
442.	247/93.18	Should support inspection of SSL traffic for reverse proxy and forward proxy deployment. Should also support ICAP interface for integration with external security systems.	Request to kindly amend the clause "Should support inspection of SSL traffic for reverse proxy deployment. Should also support ICAP interface for integration with external security systems.." <b>[Requesting Coast Guard to share the use-case for forward proxy. If forward proxy is not a requirement, request you to kindly remove this from RFP]</b>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	TCS
443.	247/93.19	Should support IoT Device authentication over SSL and MQTT Message parsing and MQTT load balancing.	Request to remove this clause. <b>[Is there any IOT device authentication use-case. For our solution compliance request to remove this clause].</b>	Mentioned capability is required as part of solution. Bidder to bid as per RFP specifications.	TCS
444.	247/93.25	It should have capability to automatically analyse attacks like Brute Force and avail CAPTCHA on the fly to users to identify bot / scripted attacks	Kindly amend "It should have capability to automatically analyse attacks like Brute Force." <b>[Justification: Presently we do not support CAPTCHA support]</b>	Mentioned capability is required as part of solution. Bidder to bid as per RFP specifications.	TCS
445.	248/93.27	It must be able to detect the presence of Remote Access Trojans (RATs) residing in the user's web browser.	Request to Remove this clause. <b>[Justification: This is not a LB feature. Remote Access Trojans (RAT's) is related to Malware attack which is taken care by security device like Firewall. We support ICAP. If anybody is uploading files, it can be sent to 3rd party scanning / detection tools via ICAP protocol].</b>	Mentioned capability is required as part of solution. Bidder to bid as per RFP specifications.	TCS

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
446.	248/93.28	It should perform comprehensive countermeasure to protect against zero day attack, Challenge – Response Mechanism, which should be able to detect and protect attacks in real time through inbuilt Captcha Mechanism	Kindly amend "It should perform comprehensive countermeasure to protect against zero day attack, Challenge – Response Mechanism, which should be able to detect and protect attacks in real time " <b>[Presently we do not support CAPTCHA support]</b>	Mentioned capability is required as part of solution. Bidder to bid as per RFP specifications.	TCS
447.	248/93.29	It should encrypt the sensitive field in the application in real time as compared to being encrypted after a submit button or equivalent being pressed	Please elaborate on the requirement of this clause.	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	TCS
448.	248/93.35	Should have a built-in tool to take a snapshot of the unit for troubleshooting and analysis purpose	Kindly elaborate requirement for this clause. Our solution is able to download the debug logs for troubleshooting. Is this what is required from this clause ?		TCS
449.	248/93.36	Vendor should provide a service to upload this snapshot and get feedback on the health of the unit & missing Hotfixes and best practices	Our solution runs on hardened appliance. If there are any vulnerabilities, they are fixed in next releases. Our solution strives to ensure the highest level of security, adhering to rigorous testing and validation standards for our service engines and controllers. Kindly confirm if this meets the requirement of this clause		TCS
450.	249/8.0.	OEM should be listed in Gartner leader quadrant for ADC for last 3 years consecutively	Kindly remove this clause <b>[Justification: Gartner has not released Magic Quadrant since year 2016 for ADC's]</b>	Bidder to provide last available report.	TCS
451.	405/ INFORMATION SECIIRITY REM IIREMENTS	3 Servers with	A. Kindly provide the scope of code audit certificate w.r.t code quality, security etc. B. Kindly confirm code audit certificate will be provided by bidder internal team or Cert In Empaneled agency?	1. Code audit 2. This certificate will be provided by bidder team.	TCS

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
452.	405/INFORMATION SECURITY REQUIREMENTS	100( CALs	Kindly confirm the frequency of security audit?	Security audit of requisite components to be carried out prior go-live.	TCS
453.	411/Appendix E (Refers to Para 33 of RFP)	453 CALs	<b>Kindly amend the below clause as:</b>  1. This is to certify that the Hardware and the Software being offered as part of the contract <b>at the time of delivery</b> does not contain embedded malicious code that would activate procedures to:-	The bidder to comply to the conditions/ requirements at Appendix E on page 411 of RFP.	TCS
454.	411/Appendix E (Refers to Para 33 of RFP)	33. UTM Device Fortinet Fortigate 200E 02 (DR)	<b>Kindly amend the below clause as:</b>  2. The firm will be considered to be In breach of the procurement contract, incase physical damage, loss of information or infringements related to copyright and Intellectual Property Rights (IPRs) are caused due to activation of any such malicious code <b>by Seller</b> in embedded software.	The bidder to comply to the conditions/ requirements at Appendix E on page 411 of RFP.	TCS
455.	413/MALICIOUS CODE CERTIFICATE FROM BIDDER	MALICIOUS CODE CERTIFICATE FROM BIDDER	<b>Kindly amend the below clause as:</b>  1. This is to warrant that the hardware and software being offered, as part of the Contract <b>at the time of delivery</b> does not contain embedded malicious code at the time of installation and commissioning. Patch level update of the hardware/ software is enclosed.	The bidder to comply to the conditions/ requirements at Appendix E on page 411 of RFP.	TCS



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
456.	496/Bill of Material	Bill of Material	No separate Load balancer asked for Internet zone separately. Please clarify	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>TCS</b>
457.	65,83/34. Data Recovery Data Centre-High level Bill of Material	Data Recovery Data Centre-High level Bill of Material	Is BMS not required for DR and NLDC please specify.	As per para 34 on page 65 and para 49 on page 83 of RFP, Only DCIM software along with all accessories will be required for DRDC and NLDC. Bidder to comply with RFP requirements.	<b>TCS</b>
458.	Page 55/ 22.1.4	DR-DC server room should be able to accommodate a total of 18 Data Racks (10KW each) considering future scalability.	We understand that, DC-DR server room should accommodate a total of combined 18 Data Racks(10KW each) not 18 racks each at DC and DR. Please specify.	DRDC should accommodate 18 data rack (10 KW each). Requirement of DC data rack mentioned separately at para 13.14 on page 48 of RFP.	<b>TCS</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
459.	Design Sizing. Page 56/Point No.23	The clear land will be provided to bidder by ICG. The bidder has to construct the civil infrastructure for approximately 2506 Sq. Mtr (Avg floor area for G+2 with stilt area of 835 Sq Mtr) for DR-DC and similar floor size available for 'Integrated Monitoring & Support Centre'. For that the bidder shall have to involve the Uptime Institute right from design, layout, construction till final handing over of the civil infrastructure. The average power consumption for each server rack to be considered is 10 kW. Layout diagram/ Architectural diagram of the building to be provided by the bidder to ICG within 45 days of signing of contract.	We understand that, Bidder will provide centralized manage and monitor solution for all DC,DR and NLDC IT infrastructure from only one " Integrated Monitoring and Support Center" facility ( which will be provided by ICG). Please confirm.	As per para 13.8 on page 48 of RFP. Both BMS and DCIM software along with requisite accessories for DC, DRDC & NLDC must be part of the solutions.	<b>TCS</b>
460.	35	Appendix-A 3.9	Integration and Migration of Data  What is the size of data that is required to be migrated? What kind of data have to be migrated? Is it application data or files or any other data. Are the relevant documents wrt this data available?	Details of data migrations Will be shared post signing of the contract as mentioned at para 3.9 on page 35 of this RFP	<b>BEL</b>
461.	201	79	The proposed solution should have a central identity manager  Why is this required as its to be integrated	The bidder to comply to the conditions/ requirements at para 79 on page 201 of RFP.	<b>BEL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			with identity manager module of already existing system- SIMHA?		
462.	202	79.12	The sys software should be completely scalable to accommodate the changing Nos of users and applications.  How many number of users have to be catered?	Presently approx. 16000 users are to be catered. The scalability characteristics is meant for futuristics measure	<b>BEL</b>
463.	Page No. - 392 Point - 244.1	Integration with ICG IAM (Identity and Access Management) system	Generic Point  While technical requirements ask for IDAM technical capabilities (C28- IDAM Technical Requirement), RFP says applications need to be integrated with Oracle IAM solution. Is IAM solution with full Identity and Access Management capabilities already available? If IAM solution already available, it needs to be replaced?	Bidder has to provide the IAM solution and configure.	<b>CCS</b>
464.	Page No. - 201	C28 - IDAM Technical Requirement	Generic Point  What are the total number of users to be considered for IDAM licensing?	Approx. 16000	<b>CCS</b>
465.	Page No. - 201	C28 - IDAM Technical Requirement	Generic Point  What are the total number of applications to be integrated with IDAM solution?	Minimum 20 application needs to be integrated with IDAM solution	<b>CCS</b>
466.	Page No. - 201	C28 - IDAM Technical Requirement	Generic Point  Is DR infra for IDAM should also need to be proposed in High Availability	Yes	<b>CCS</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
467.	Page No. - 206	C29 Privileged Access Management	Generic Point  What are the number of target devices/servers to be onboarded on PAM?	--	CCS
468.	Page No. - 206	C29 Privileged Access Management	Generic Point  What are the type of targets which needs to be integrated with PAM.	--	CCS
469.	Page No. - 175 Point - 76.2	C25 - SIEM & SOAR	Proposed solution have the ability to natively monitor layer 7 traffic and perform deep packet inspection (DPI). Solution should support full packet capture and should have the ability where download packets can be restricted based on user/group. Proposed solution should not use any SQL or Flat files or RDBMS database for storing logs and events.  Justification: SIEM solution collect all the logs generated by the system or application. SIEM cannot generate the logs on behalf of application (security logs) but can capture the security logs from any security devices such as WAF, IDS/IPS, DOS etc.. & then correlate to find out the vulnerabilities, attacks etc.. SIEM solution can integrate with 3rd party Packet capture solution to collect logs, not all SIEM vendor support this feature. Packet capture is altogether a different technology and support by one OEM. Please remove this point from the RFP so other can also comply and bid. Change Required: "The solution should have capability to integrate with applications and not restricted to audit or transaction logs. In	Mentioned capability is required for this project. Bidder can bring a combination of tools and technologies to meet this requirement in overall solution proposed by bidder.	CCS

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			addition to this, SIEM should be able to capture security logs from any security or network device which are not natively generated by applications."		
470.	Page No. - 175 Point - 76.9	C25 - SIEM & SOAR	<p>Machine learning should be embedded across the platform (SIEM, SBDL). It should empower every user in the SOC with ML. Security analyst to become citizen data scientist i.e. used predefined ML algorithms to detect &amp; predict threats, threat hunters to build their own ML models with steps to build, train and implement model and data scientists should be able to integrate advanced ML frameworks.</p> <p>Justification: Request you to change the clause to generic language so that other reputed OEMs can participate, as are point is restricting many leading SIEM OEMs Change Required: Solution should be able to utilize Machine learning. It should empower every user in the SOC with ML. Security analyst to become citizen data scientist i.e. used predefined ML algorithms to detect &amp; perdict threats, threat hunters to build their own ML models with steps to build, train and implement model and data scientists should be able to configure custom ML models.</p>	Solution should be able to Integrate advanced ML frameworks which will give flexibility and help achieve the outcome. Also, SIEM with advance ML capabilities which enable the user to import custom models or import any additional open source ML models.	<b>CCS</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
471.	Page No. - 178 Point - 76.19	C25 - SIEM & SOAR	<p>Proposed solution must be able to create alerts to notify about suspect activities, allowing actions like: enriching data, sending email, sending information to a syslog and exporting a PCAP file that may be accessed via CIFS/SMB/NFS and via dashboard. Solution should provide the ability to choose between capturing all packets and selective packet capture to lower storage requirements</p> <p>Justification: Request you to change the clause to generic language so that other reputed OEMs can participate, as are point is restricting many leading SIEM OEMs. SIEM is a security solution &amp; collaborates with network security tool to capture information, events from PCAP solution. Hence please consider our request or delete this clause from the RFP. Change Required: Proposed SIEM solution should collaborates with network security tool to capture information, events from PCAP solution</p>	Mentioned capability is required for this project. Bidder can bring a combination of tools and technologies to meet this requirement in overall solution proposed by bidder.	<b>CCS</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
472.	Page No. - 178 Point - 76.23	C25 - SIEM & SOAR	<p>The solution must dynamically learn behavioral norms and identify and report on changes as they occur by baselining the the customer environment and monitoring for changes from a known normal state.</p> <p>Justification: Request you to change the clause to generic language so that other reputed OEMs can participate, as are point is restricting many leading SIEM OEMs</p> <p>Changes Required: The solution must be able to detect suspicious behavioral and identify and report on changes as they occur in customer environment and monitoring for changes from a known normal state.</p>	Dynamic learning of behavioral norms, identify and report on changes by baselining the environment and monitoring the changes is all required as part of solution.	CCS
473.	Page No. - 178 Point - 76.24	C25 - SIEM & SOAR	<p>Proposed solution should come with out-of-the-box dashboards through which you can see the status of key KPIs over time. Solution should allow you to identify the trends or specific points in time where KPI status changed and drill down to the health page where we can monitor metrics like CPU usage, average memory usage, average datastore latency and average network traffic across all hosts.</p> <p>Justification: SIEM can do Health monitoring of its own components, not for all end devices. This can be achieved easily with NMS or any other network monitoring tool. SIEM is a log management and correlation tool achieve compliance, provide security insight of the entire network &amp; to automate the response. Favoring to only one OEM, Request you to please delete this clause from the RFP, not all SIEM solution offer this</p>	<p>Mentioned capability is required for this project. Bidder can bring a combination of tools and technologies to meet this requirement in overall solution proposed by bidder. SIEM should be able to correlate with all the data points in case of any attack to able to pin point the root cause effectively and in timely manner. This helps to reduce the false positive and improve response time.</p>	CCS

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			as a feature. Changes Required: Please delete this Point		



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
474.	Page No. - 179Point - 76.26	C25 - SIEM & SOAR	<p>Solution must be able to analyze captured traffic and PCAP files simultaneously. The proposed solution must support the decoding of the following network protocols from log data or picking the meta data from network traffic: HTTP, FTP, DNS, MySQL, SMTP, SNMP, SMB, TCP, UDP, NFS, Oracle (TNS), LDAP/ AD, PostgreSQL, Sybase/ SQL Server (TDS), IMAP, POP3, RADIUS, IRC, SIP, DHCP, AMQP, DIAMETER, MAPI</p> <p>Justification: SIEM is a security solution &amp; collaborates with network security tool to capture information, events from PCAP solution. Hence please consider our request &amp; delete PCAP clause from the RFP. Favoring to only one OEM, Request you to please delete this clause from the RFP, not all SIEM solution offer this as a feature. Changes Required: Please delete this Point</p>	Mentioned capability is required for this project. Bidder can bring a combination of tools and technologies to meet this requirement in overall solution proposed by bidder.	<b>CCS</b>
475.	Page No. - 180 Point - 76.33	C25 - SIEM & SOAR	<p>The proposed solution must provide GUI that can easily help to build, built-in or custom machine learning models using the guided experience and should be able to integrate with generic machine learning tools like Jupiter Notebook, tensor flow, pytorch etc.</p> <p>Justification: This point is specific to one OEM. Request you to please make it generic &amp; mention Change Required: "The proposed solution must provide Logging and Intelligence to provides capabilities to built custom data models.</p>	Clause mentioned in query differs from RFP. For ease of use and adoption this capability is required as part of solution.	<b>CCS</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
476.	Page No. - 180 Point - 76.34	C25 - SIEM & SOAR	<p>The proposed solution should have machine learning platform embedded in the solution that can easily help to build, built-in or create unlimited custom machine learning models using the pre-defined sequence and should be able to integrate with a collection of NLP and classical machine learning libraries, generic machine learning tools like tensor flow, pytorch,R, Python, Scala etc</p> <p>Justification: This point is specific to one OEM. Request you to please make it generic &amp; mention Change Required: "The proposed solution must provide Logging and Intelligence to provides capabilities to built custom data models.</p>	Clause mentioned in query differs from RFP. Machine leaning platform capabilities are required in the solution	<b>CCS</b>
477.	Page No. - 180 Point - 76.35	C25 - SIEM & SOAR	<p>The proposed solution machine learning capabilities must allow addition of custom machine learning algorithms from popular open source libraries like NLP, Python etc.</p> <p>Justification: This point is specific to one OEM. Request you to please make it generic &amp; mention Change Required: "The proposed solution must provide Logging and Intelligence to provides capabilities to built custom data models.</p>	Clause mentioned in query differs from RFP. Machine leaning capabilities are required in the solution	<b>CCS</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
478.	Page No. - 180 Point - 76.36	C25 - SIEM & SOAR	<p>The proposed solution machine learning capabilities must includes API access, role-based access controls for machine learning models. The proposed solution should natively have ML capabilities and should not have separate engine/compute requirements for running ML models.</p> <p>Justification: This point is specific to one OEM. Request you to please make it generic &amp; mention Change Required: "The proposed solution must provide Logging and Intelligence to provides capabilities to built custom data models.</p>	<p>Machine leaning capabilities are required in the solution. ML capabilities needs be embedded in the solution and shouldn't require any separate compute so that ML algorithm should run simultaneously on the Data lake created by ingesting customer machine data.</p>	<b>CCS</b>
479.	Page No. - 182 Point - 76.41	C25 - SIEM & SOAR	<p>The proposed SOAR solution should have built in functionality for triage health check failures – perform ping test, gather information (VM status, OS uptime, SCOM status for Windows), and triage issues.</p> <p>Justification: This point is specific to one OEM. Request you to please make it generic &amp; mention Change Required: " The proposed SOAR solution should provides enrichment to address mentioned functionality."</p>	<p>Mentioned capability is required in solution to run the operations efficiently. Triageing is very basic feature of SOAR solution which help analysts in identifying and triaging the issues.</p>	<b>CCS</b>
480.	Page No. - 182 Point - 76.41	C25 - SIEM & SOAR	<p>The proposed SOAR solution should support periodic automations – notify the users of underutilized VMs and reduce VM profile.</p> <p>Justification: This point is specific to one OEM. Request you to please make it generic &amp; mention Change Required: "The proposed SOAR solution can be configured to support periodic automations."</p>	<p>Mentioned capability is required in solution to run the operations efficiently</p>	<b>CCS</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
481.	Page No. - 182 Point - 76.42	C25 - SIEM & SOAR	<p>Ability to identify the future needs of critical system resources, no prior knowledge in predictive modeling algorithms required to use this functionality, and the ability to easily interpret and customize the results</p> <p>Justification: This point is specific to one OEM. Request you to please make it generic &amp; mention Change Required: "Solution should provide Predictive analysis to identify future need".</p>	Mentioned capability is required in solution to run the operations efficiently and with ease. This functionality is critical as it'll help analyst in setting up an alert for underutilized Virtual Machine and helps in optimization of the same.	<b>CCS</b>
482.	Page No. - 182 Point - 76.42	C25 - SIEM & SOAR	<p>Ability to identify the future needs of critical system resources, no prior knowledge in predictive modeling algorithms required to use this functionality, and the ability to easily interpret and customize the results</p> <p>Justification: This point is specific to one OEM. Request you to please make it generic &amp; mention Change Required: "Solution should provide Predictive analysis to identify future need".</p>	Query Repeated	<b>CCS</b>
483.	3.1.5.5	Modular UPS 400 KW(1+1),200 Kw Modules + Chassis 200 Kw Modules	Request please approve to propose 200 KVA + 200 KVA ( with is N+N of total 2*200 KVA ) each for DC & DRDC separately. We shall propose 25 KVA Power Modules with 250 KVA cabinet capacity.	Bidder to provide Modular UPS of 200kW capacity in (N+N) configurations.	<b>LeeGrand</b>
484.	3.1.5.5	Modular UPS 400 KW(1+1),200 Kw Modules + Chassis 200 Kw Modules	Does phase 1 & phase 2 have dual source for which each source will cater to 200 KVA UPS per source ( DC & DR )		<b>LeeGrand</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
485.	3.1.5.6	With Lithium Lion Battery 10 Minutes Backup X 2 NOS X 2 NOS	please Confirm if Each UPS will Cater to Single string battery or dual string to be considered.	Bidder has to provide UPS with capacity and specification as mentioned at para 8.1 and 8.2 of Appendix 'A' of RFP.	<b>LeeGrand</b>
486.	8.1.8	UPS shall be provided with BMS interface and integrated with unified IT Operations Management software for centralized management & monitoring.	Will BMS be provide by the client to which UPS has to be configured or should it be provide by the UPS OEM as a feature along with UPS.	BMS is a line item as mentioned at para 13.8 on page 48 of this RFP and should be provided by bidder.	<b>LeeGrand</b>
487.	8.2.1	Lithium-ion of NMC type	Request please approve to propose Li-ion with type LMO or LFP .	The bidder to comply to the conditions/ requirements at para 8.2 on page 41 of RFP.	<b>LeeGrand</b>
488.	8.2.4	Battery housing should be compact and space saving MS steel open racks complete with interconnectors/ Battery fuse box or isolator (in case of external protection) - IP 20.	Since the RFP calls for Li-ion Batteries. Its comes with closed cabinet with Battery module , BMS & Switchgear has inbuilt std feature.	Bidder to offer most suited workable solution to comply with RFP requirements.	<b>LeeGrand</b>
489.	22.1.7	Double Conversion Online modular UPS to cater for 90 KW load in Phase-I. Similar capacity need to be added in future. Modular UPS to have 1+1 bank of 100 kW and also each UPS bank to be in N+N configuration to provide adequate high availability.	Please confirm on battery string for each UPS of 90 KVA, whether its single or dual string. Also should we consider 2*90 KVA for Phase - 1 & another 2* 90 KVA for Phase - 2 .	Bidder has to provision modular UPS to cater 200KW load as per para 27.1 on page 58.	<b>LeeGrand</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
490.	27.1.1	UPS to cater Phase-I load i.e. 200 kVA with 10 mins backup with Lithium-ion battery backup suitable to scale up to 400 kVA with N+N configuration to cater Phase-I & Phase-II loads.	Clause 22.1.7 calls for 90 KVA for DR and similarly clause 27.1.1 calls for 200 KVA . Kindly confirm the capacity to be considered for Ph - 1 & phase - 2.	Bidder has to provision modular UPS to cater 200 KW load as per para 27.1 on page 58.	<b>LeeGrand</b>
491.	<b>Additional Suggestions</b>	Since, no detailed specifications available for iPDU, IP KVM, BBT, Racks, Cable trays. ,we request please incorporate minimum generic desired specifications as attached & oblige.		The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>LeeGrand</b>
492.	89	Point 52.8 & 52.11	Roles Based User Access and SSO Requirements  Kindly provide total number of Users Internal & External What are the total Number of Tenants Required	Total number of users are approx. 16000.	<b>Deolitte</b>
493.	94	Point 52.60	Log Analytics Solution  Kindly provide log retention period	Requirement is capability of proposed solution to be able to ingest data/ events from any SIEM technology. The technology solutions must be able to integrate with any technology, no platform dependency. Hence, Bidder to provide solution as per the requirement given at para 76 Sl C-25 on page 174 to 183 of RFP.	<b>Deolitte</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
494.	95	Point 52.63	<p>Log analytics Integration with SIEM</p> <p>Kindly specify Make and Model of SIEM in use</p> <p>Will SIEM and log analytics solution co-exist ?</p> <p>What are the advance use cases expected from SIEM ?</p>	<p>Requirement is capability of proposed solution to be able to ingest data/ events from any SIEM technology. The technology solutions must be able to integrate with any technology, no platform dependency. Hence, Bidder to provide solution as per the requirement given at para 76 SI C-25 on page 174 to 183 of RFP.</p>	<b>Deolitte</b>
495.	176	Point 76.1	<p>SIEM and SOAR</p> <p>Kindly provide log retention requirements for SIEM and SOAR solution to be supplied ?</p> <p>What is the high availability and DR expectation for SIEM and SOAR solution?</p> <p>Is Bidder expected to provide Commercial TI Feed ?</p>	<p>Bidder to provide workable solution as per the requirement given at para 76 SI C-25 on page 174 to 183 of RFP. However, bidder must comply with CERT-IN guidelines for storing of logs for 90 Days online and 180 days offline.</p>	<b>Deolitte</b>
496.	181	point 76.26	<p>SIEM and SOAR - Integration with Packet Capture</p> <p>Is bidder expected to factor PCAP solution for incident playback and packet analysis ?</p> <p>If Yes kindly share the relevant scope and sizing details such as High availability requirements at DC and DR ?</p> <p>Log Retention Period.</p> <p>Number and Type of Interfaces on each appliance.</p>	<p>Bidder to provide workable solution as per the requirement given at para 76 SI C-25 on page 174 to 183 of RFP. Log retention period is as mentioned in above query.</p>	<b>Deolitte</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
497.	185	Point 77	NGFW Appliance  IS HA required at DC DR and NLDR ? Is HA required for Management Server ? What is the expected throughput, interfaces and feature licenses required for NGFW ? What is the Difference between Perimeter Firewall and Internet Perimeter firewall mentioned as part of point 77.1 and 77.47 ?	Yes. As per Uptime Institute Tier -III standard.	<b>Deolitte</b>
498.	190-191	Point 77.39 and 77.47	Intranet and Internet Firewall  Is HA required at DC, DR and NLDR ?	Yes. As per Uptime Institute Tier -III standard.	<b>Deolitte</b>
499.	193-194		Anti-APT and NDR Solution  Kindly provide HA and DR expectations for NDR and Anti-APT solution.		<b>Deolitte</b>
500.	203	Points 79 and 80	IDAM and PAM solution  Kindly share HA and DR expectations for IDAM and PAM solution Kindly share the number of Users ( Internal and External)	As per the para 79 Sl. C-28 IDAM and para 80 Sl. C-29 PAM specifications are self explanatory. HA is high availability. Number of total ICG users are approx. 16000.	<b>Deolitte</b>
501.	227	Point 86.1	SOC - Installation, Configuration, Integration with Infosec software application including SIEM/GRC, One Time payment Qty - 01No  Need clarity on scope included as part of SOC services and what all tools / services needs to be integrated with SIEM/GRC ? Whats the quantity 01 refers to ?	Installation, configuration and Integration of the SIEM provided by the bidder as per specification given at Para 76 Sl.C-25 on page 174 to 183 of RFP.	<b>Deolitte</b>



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
502.	227	Point 86.2	<p>SOC - Security Incident Management /Analysis support</p> <p>Kindly specify the shift timings and scope expected from Security Analyst and SOC support Engineer ?</p> <p>Kindly share scope for Security analyst and SOC Support Engineer ?</p> <p>Is Device Management part of SOC services ? If Yes kindly provide the scope and coverage expected for each technology in scope of SOC</p> <p>Is Count of 01 for Security analyst and Count of total 4 ( 1 at DC and 1 at DR ) for SOC support is minimum count to be supplied by bidder ? Is bidder allowed to propose appropriate count as per scope and coverage expected as 4 Nos may not be enough to run 24*7 operation?</p>	<p>(i) Bidder to provide Manpower required for the operational purpose of DC &amp; DRDC has been projected in para 253.1 and 253.2.</p> <p>(ii) Role and scope of SOC engineer and analyst is as per industry standards.</p> <p>(iii) Manpower support will be required for 24X7X365 basis. Shifts will be 0900hrs to 1700hrs and so on in rotation.</p>	<b>Deolitte</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
503.	Page No. 142, C21-Passive Cabling	As per tier-III data centre standards	<p>Passive Specifications for Structure Cabling for Data Center are completely missed out in current RFP.</p> <p>Even if the highest performance Active Networking solution is deployed by the bidder but without the deployment of high performance or latest standards based inter-rack cabling solution are not deployed then the performance of overall Networking system in Data Center are questionable and uncertain.</p> <p>Passive Networking is considered to be nervous system of highway of any network system , if that is not addressed properly with latest performance and safety standards. Then the current clause will not guarantee the desired result from the networking solution. We hereby request you to kindly include the performance based technical specifications for structure Cabling as well for being the Backbone and important part of NON- IT INFRASTRUCTURE OF DATA CENTER</p>	<p>Refer to RFP page 32, as the envisaged datacenter is Uptime standards certificated, the structured cabling thus shall meet all application design and implementation standards applicable, and shall follow a high quality workmanship. Complete cabling solution shall be modular in nature, end-to-end concealed, properly dressed and with adequate identification markings. It shall at a minimum be based on Cat6A/Cat7 for copper cabling, and fiber cabling shall support 100G with MPO/ similar modular connectivity solutions. Bidder shall derive exact quantity, type and speed of structured cabling solution as per overall RFP requirement and number of racks as mentioned in the RFP.</p>	<b>Niveshan</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
504.	COMPLIANCE OF TECHNICAL SPECIFICATION - DC/ DRDC/ NLDC COMPONENTS C21 - Passive Cabling, Page No. 146	As per tier-III data centre standards	<p>Passive Specifications for Structure Cabling for Data Center are completely missed out in current RFP.</p> <p>Even if the highest performance Active Networking solution is deployed by the bidder but without the deployment of high performance or latest standards based inter-rack cabling solution are not deployed then the performance of overall Networking system in Data Center are questionable and uncertain.</p> <p>Passive Networking is considered to be nervous system of highway of any network system , if that is not addressed properly with latest performance and safety standards. Then the current clause will not guarantee the desired result from the networking solution. We hereby request you to kindly include the performance based technical specifications for structure Cabling as well for being the Backbone and important part of NON- IT INFRASTRUCTURE OF DATA CENTER</p>	<p>Please refer to RFP page 32, as the envisaged datacenter is Uptime standards certificate, the structured cabling thus shall meet all application design and implementation standards applicable, and shall follow a high quality workmanship. Complete cabling solution shall be modular in nature, end-to-end concealed, properly dressed and with adequate identification markings. It shall at a minimum be based on Cat6A/Cat7 for copper cabling, and fiber cabling shall support 100G with MPO/ similar modular connectivity solutions. Bidder shall derive exact quantity, type and speed of structured cabling solution as per overall RFP requirement and number of racks as mentioned in the RFP.</p>	<b>Velocis</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
505.	1	<p>COMPLIANCE OF TECHNICAL SPECIFICATION - DC/ DRDC/ NLDC COMPONENTS C21 - Passive Cabling, Page No. 146</p>	<p>As per tier-III data centre standards Passive Specifications for Structure Cabling for Data Center are completely missed out in current RFP.</p> <p>Even if the highest performance Active Networking solution is deployed by the bidder but without the deployment of high performance or latest standards based inter-rack cabling solution are not deployed then the performance of overall Networking system in Data Center are questionable and uncertain.</p> <p>Passive Networking is considered to be nervous system of highway of any network system , if that is not addressed properly with latest performance and safety standards. Then the current clause will not guarantee the desired result from the networking solution. We hereby request you to kindly include the performance based technical specifications for structure Cabling as well for being the Backbone and important part of NON- IT INFRASTRUCTURE OF DATA CENTER</p>	<p>Please refer to RFP page 32, as the envisaged datacenter is Uptime standards certificate, the structured cabling thus shall meet all application design and implementation standards applicable, and shall follow a high quality workmanship. Complete cabling solution shall be modular in nature, end-to-end concealed, properly dressed and with adequate identification markings. It shall at a minimum be based on Cat6A/Cat7 for copper cabling, and fiber cabling shall support 100G with MPO/ similar modular connectivity solutions. Bidder shall derive exact quantity, type and speed of structured cabling solution as per overall RFP requirement and number of racks as mentioned in the RFP.</p>	<p><b>Black box Ltd</b></p>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
506.	63. C12 -Tape Library / PAGE 124	Point # 63.9 / Encryption device	<p>Offered Library shall be provided with a hardware device like USB key, separate appliance etc. to keep all the encrypted keys in a redundant fashion.</p> <p>USB Encryption is not Granular and offers very less Keys/tokens &amp; Also the USB key Solution is NOT HW agnostic , hence please change the clause as Offered Library shall be provided with a hardware device like USB key, separate appliance or Application managed Encryption ( AME ) etc. to keep all the encrypted keys in a redundant fashion.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Overland Tandberg</b>
507.	63. C12 -Tape Library / PAGE 124	POINT 63.11 # / BARCODE READER/MAIL SLOTS	<p>Offered LTO-8 drive shall also support LTO-7 –Type M media so that native cartridge capacity of LTO-7 cartridge can be increased to 9TB.</p> <p>We request ICG , to Please let us know , If the Bidder needs to supply , 75 New LTO8 Re Writable Data cartridges &amp; 5 Cleaning cartridges with Barcode lables with the TAPE Librray C12 , So that All bidders can supply the same qty. At the same time ICG may buy more cartridges/consumables in future as and when required. We suggest Min 50-75 Media to be procured initially along with the Tape Library .</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Overland Tandberg</b>
508.	89. ] C38 -Tape Library / PAGE 231	Point 89.4	<p>The Tape Library unit shall be configured with 4 FC LTO Gen-7 Tape Drives.</p> <p>Please Clarify , Hope this is not a Typo Error , Pl confirm. Is the TAPE LIBRRAY required with LTO7 FC Drives or LTO8 FC Drives ??</p>		<b>Overland Tandberg</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
509.	89. ] C38 -Tape Library / PAGE 231	Point 89.14 #	<p>Tape Library shall be offered with minimum of 48 slots and barcode reader.</p> <p>We request ICG , to Please let us know , If the Bidder needs to supply , 48 New LTO8 or LTO7 Re Writable Data cartridges &amp; 5 Cleaning cartridges with Barcode labels with the TAPE Library 2 , So that All bidders can supply the same qty. At the Same time ICG may buy more cartridges in future as and when required. We suggest Min 40 to 48 Media to be procured initially along with the Tape Library .</p>		<b>Overland Tandberg</b>
510.	Page. 72	39	<p>In this Data Center arrangement, all/critical applications data will be replicated synchronously between main DC and NLDC, while replication between main DC and far DR will continue asynchronously. Depending on the situation BC/DR policy, in case of any failure/disaster at DC, such applications can either be instantaneously brought up from NLDC location without any significant lag and without any major data loss, or the far DR can be brought up for all the applications with data replication of remaining data from NLDC site.</p> <p>Kindly confirm if ERP needs to be set up in such a way that it can be brought up from both NLDC as well as DR if required. Please confirm the % of compute that should be set up at NLDC and DR as compared to production. Also, please confirm how many non production environments need to be set up and with how much compute relative to production they should have.</p>	IT Load catered at NLDC is usable compute for ICG, for critical applications. Bidder to comply with RFP requirements	<b>Overland Tandberg</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
511.	83.3.2	Should support Windows 2008 or higher, Linux	<p>Please note that Windows Server 2008/R2 is already end of life and support by Microsoft. Moreover, Windows Server 2012/R2At will also be EOL and EOS by October 2023.</p> <p>The recommendation is to support Windows Server 2016 and higher.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Lyseis Technologies</b>
512.	83.3.5	Support for Hash Message Digest HMAC, SHA1 SHA2 (224-512)	<p>SHA3 is the latest and most secure hashing algorithm which is not mentioned.</p> <p>Our recommendation is to include the SHA3 hashing algorithm.</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Lyseis Technologies</b>
513.	83.3.7	Random Number Generation – FIPS 140-2 approved	<p>FIPS 140-2 are certified software based random number generators. It should also include certified hardware random number generators like BSI AIS 20/31 compliant.</p> <p>Please include Hardware RNG which should be BSI AIS 20/31 compliant.</p>		<b>Lyseis Technologies</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
514.	83.3.9	Keys must be stored and protected in Crypto memory of hardware within FIPS boundary of HSM	<p>Please note that storing keys inside the HSM “Keys in box” limits storage capacity. Also it requires manual backups and additional backup HSMs to do that which increases the total cost substantially. Moreover, in the case the HSM fails, the entire infrastructure goes for a toss.</p> <p>This technology is specific to a particular OEM and not generic. The FIPS 140-2 Level 3 certification evaluates on the FIPS boundary and not on the key storage basis.</p> <p>The recommendation is to store the keys as encrypted application tokens and not keys which gives virtually unlimited capacity. Hence we request to kindly modify it to store within the FIPS 140-2 boundary, rather than inside the HSM.</p>		<b>Lyseis Technologies</b>
515.	83.3.11	Minimum keys storage should be 10000 RSA keys of 2048 bits within FIPS 140-2 Level 3 certified crypto memory	<p>Please note that storing keys inside the HSM “Keys in box” limits storage capacity. Also it requires manual backups and additional backup HSMs to do that which increases the total cost substantially. Moreover, in the case the HSM fails, the entire infrastructure goes for a toss.</p> <p>This technology is specific to a particular OEM and not generic. The FIPS 140-2 Level 3 certification evaluates on the FIPS boundary and not on the key storage basis.</p> <p>The recommendation is to store the keys as encrypted application tokens and not keys which gives virtually unlimited capacity. Hence we request to</p>		<b>Lyseis Technologies</b>



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			kindly modify it to store within the FIPS 140-2 boundary, rather than inside the HSM.		
516.	83.3.3	Should comply to standards FIPS 140-2 Level 3 crypto boundary	<p>Please note that the HSM OEM and the crypto processor should be from the same OEM. Creating an assembled HSM makes it highly insecure and can jeopardize the security of highly esteemed organizations like Coast Guard.</p> <p>The HSM OEM should have FIPS 140-2 Level 3 certification on its own name.</p> <p>The FIPS certification of the USB HSM should be from the same OEM only and not as a bundled or assembled device.</p>		<b>Lyseis Technologies</b>
517.	83.3.22	Appliance should be 2U rack size	<p>The new age network HSMs are all available in 1U size which is the industry standard.</p> <p>Please change it to 1U.</p>		<b>Lyseis Technologies</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
518.	215	83.1.7	<p>There should be a mechanism for monitoring, such as SNMPv3/ Syslog.</p> <p>Usually 3'rd party products are required for monitoring SNMPv3/ syslogs. Is it okay to write out the events to be captured and monitored by 3rd party products?</p>	<p>The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.</p>	<b>Lyseis Technologies</b>
519.	218	83.1.55	<p>Should be scalable to at least 500 of hosted CA with support to multiple concurrent HSMs</p> <p>This can be achieved but we would like to understand the current requirement? How many certificates needed to be issued? What is the TPS requirement?</p>		<b>Lyseis Technologies</b>
520.	218	83.1.56	<p>Should support Production rate of at least 250 certificate requests per second.</p> <p>Is it 250 certificate issuance or validation?</p> <p>How many total certificates needed to be issued? Why do you need 250 certs per second?</p> <p>What type of certificates are needed to be issued and what is the certificate lifetime?</p>		<b>Lyseis Technologies</b>
521.			<p>What are the certificate use cases and the estimated number of certs required (eg. User authentication, document signing, SSL, code signing, eSign etc.)</p>		<b>Lyseis Technologies</b>
522.			<p>Does the solution needed to be integrated with external system eg. ServiceNow, hashicorp Vault etc?</p>		<b>Lyseis Technologies</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
523.			Do you have performance requirement information eg: - RTP - RPO, - how many certificates issuance request/second? - How many certificate revocations requests/second?		<b>Lyseis Technologies</b>
524.	Appendix A Section- 3.1.5/ Page no. 33	DG set requirement in Phase -1	At page no. 33 DG set capacity mentioned is 400 kW and on page no. 48 point no. 13.13 DG capacity mentioned is 320 kW. Pls clarify.	Bidder(s) to provide DG set of 400kW capacity in (N+N) configurations as mentioned in para 3.1.5 on page 33 of RFP.	<b>Nikom</b>
525.	Appendix A Section- 3.1.5/ Page no. 33	Capacity of Modular UPS system	At page no. 33 Modular UPS capacity mentioned is 400 kVA/kW and on page no. 40 Clause 8.1 UPS chasis mentioned scalable upto 500 kVA/ kW. Pls clarify.	Bidder(s) to provide Modular UPS of 200kW capacity in (N+N) configurations as mentioned in para 3.1.5 on page 33 of RFP.	<b>Nikom</b>
526.	Section 8.2/ Page no. 42	Battery Specifications	Pls also add LMO type Lithium Batteries.	The conditions at para 8.2 on page 41 of RFP are to be complied.	<b>Nikom</b>
527.	Appendix A Section- 3.1.5/ Page no. 33	PAC unit ratings	At page no. 33 PAC rating mentioned is 27 TR and on page no. 52 in DC layout PAC rating shown 30 TR. Pls clarify.	Bidder(s) to provide PAC rating 27 TR as mentioned in para 3.1.5 on page 33 of RFP.	<b>Nikom</b>
528.	Section 22, Clause 22.1.5/ Page no. 55	PUE	PUE in DC is not required. Pls confirm	The conditions at para 22 on page 55 of RFP are to be complied.	<b>Nikom</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
529.	Section 27, Clause 27.1/ Page no. 58	UPS specifications	In DR site total IT load is 180 kVA (including both the phases) then why 400 kVA UPS system required. Pls check.	Please refer to para 27.1 on page 58 of RFP, the UPS should be with 3 phase Fully Rated Pluggable Hot Swappable Static Switch Module (On Line Draw In/Out) shall be provided. Sub Power modules shall be swappable without putting the UPS in bypass/battery operation.	<b>Nikom</b>
530.	Section 13/ Page no. 48	High level Bill of material	There is only supply of rack for (both the phases). Not loading of racks (phase -2). Pls clarify	Bidder to provide following racks: - DC - 34 racks (Para 13, page 48 of RFP). DRDC - 18 racks (Para 34, Page 65 of RFP). NLDC - 5 racks (Para 49, page 83 of RFP). All racks will be fitted with ICT components as specified in Appendix-Q of the RFP.	<b>Nikom</b>
531.	Section 34/ Page no. 65	Data Recovery Data Centre-High level Bill of Material	DG capacity mentioned in BOM is underrated for 90 kW load in Phase-1	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	<b>Nikom</b>
532.	Section 40, Point 40.6/ Page no. 73	Design Requirement (NLDC)	At page no. 73 03 In row units required to cater the 50 kW load. But on page no. 84 in layout only 2 in row unit shown. Pls clarify.	The bidder to comply to the conditions/ requirements at para 40.6 on page 73 of RFP.	<b>Nikom</b>
533.	Section 14/ Page no. 49	Suggested DC Layout & Suggested Disaster Recovery Data Centre Layout	Both DC & DR layouts are same (page no. 49 to 51 & 67 to 69). So pls share the DR layouts.	Layout provided in RFP are the indicative design. Bidder to provide the diagram of civil	<b>Nikom</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
534.	Section 40.12/ Page no. 74	Design Sizing. Civil infrastructure of approximately 50 Sq. mtr are to be constructed for NLDC.	Pls provide the indicative layout of NLDC site other than Server farm area.	architecture of DC, DRDC & NLDC along with the technical proposal.	<b>Nikom</b>
535.	Section-44, Clause 44.7/ page no. 22	Monitoring of Project Based on Contractual Milestones	<b>Existing Clause-</b> Submission of list of clearances to be obtained by ICG. Pls confirm that all the site related clearance from Govt. agencies/ organizations will be ICG scope is it.		<b>Nikom</b>
536.	Section-44, Clause 44.9/ page no. 23	Monitoring of Project Based on Contractual Milestones	<b>Existing Clause-</b> Submission of application and documents for LEEDS certification for Green Building Norms. Pls amend this Clause as IGBC certifications required instead of LEEDS. Because for Data centre Green Building only IGBC certification required.		<b>Nikom</b>
537.	Section-14/ Page 49	Suggested Layout Ground floor	Please prove earthing location and distance from server room.		<b>Nikom</b>
538.	Section-14/ Page 49	Suggested Layout Ground floor	DG main cable to LT panel laying through cable or Trench please clarify.		<b>Nikom</b>
539.	Section-14/ Page 49	Suggested Layout Ground floor	Please provide Cable length between Main LT panel to server room.		<b>Nikom</b>
540.	Section-14/ Page 49	Suggested Layout Ground floor	Please provide site Layout Cad drawing.		<b>Nikom</b>
541.	Section-15/ Page 50	Suggested Layout first Floor	Please provide Building layout and elevation Cad drawing		<b>Nikom</b>
542.	section-16/ Page 51	Suggested Layout Second floor	Please provide cooling outdoor unit distance from server room.		<b>Nikom</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
543.	66	34/34.19 Bill of material	Command and Control Centre Software System (as required), No explanation to this line found in the RFP, need to know the exact requirement of the same.	As per Para 6.13 on Page 36, Para 24.15 on page 57, Para 344.17 on page 65 of RFP, Bidder has to provide video wall with all accessories and analytic software with following specifications:- <u>Command &amp; Control Analytics and Data Visualization Software with RPA Command &amp; Control Analytics and Data Visualization Software with RPA:</u> Should provide Server based Analytics and Data Visualization, Auto-refreshing views, Black Background. Dashboard layouts for big screens, Display to use entire canvas, Auto-refreshing views. Should support data from various sources using native connectors, Value stored in NoSQL database such as MongoDB/ Oracle, PostgreSQL, REST API, Excel Files, Hadoop. CCDV should provide rich set of configurable Charts/ Graphs, Should support all latest OS versions, Generate tasks by dragging and dropping the items from the toolbox, On-demand enterprise-grade platform for RPA bot, Augmented data discovery, Interactive visual exploration, Embedding of analytic content, Publish, share and collaborate on analytic	<b>Avenir</b>

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
				content, Analytic dashboards, Data preparation, Data storage and loading options, Metadata management, Data source connectivity and ingestion.	
544.	73. C22 - Enterprise Mgmt. Solution Suite	145	<p>The EMS shall support single pane/dashboard for the purposes of the NOC with real time monitoring &amp; visibility across multiple areas of DC environment for monitoring. The EMS solution shall integrate network, server and database performance information and alarms in a single console and provide a unified reporting interface for network components.</p> <p>EMS platform consists of multiple components as stated in RFP under this section as well. Having all these components from the same OEM will ensure that the components are pre-integrated and adequately tested and hence time to value realization is quick and issues of integration does not arise. Hence request you to please confirm if the proposed all EMS solution components must be integrated, modular and scalable solution from single OEM (i.e. all Network Monitoring, server Monitoring including application and database monitoring, IT Service Management/Helpdesk tools and Patch Management should be from single OEM to provide comprehensive fault management, performance management, traffic analysis and business service</p>	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimize suitably to attain the desired solution.	Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			management, IT service desk\ help desk \trouble ticketing system, SLA monitoring and Patch management functionality)?		
545.	73. C22 - Enterprise Mgmt. Solution Suite	147	<p>MSI shall use Industry standard EMS tools recognized by analysts (like Gartner, Forrester etc.) to report desired SLA's for availability &amp; performance of Various IT Components including Networks, Systems and OS.</p> <p>EMS solution having been analyzed &amp; recognized by leading analysts ensures that an industry standard solution is being proposed. This is important because as NMS/EMS is the only solution that gives visibility into the project and is responsible for SLA measurements and audits, and therefore all the stakeholders must agree to the reports been generated from NMS/EMS/Helpdesk. This warrants an industry-standard mature solution. Hence please confirm if the proposed EMS solution must be present in either Leaders or Challengers (Strong Performers / Major Players) Quadrant of Forrester / Gartner / IDC / RIA report for ITSM in the last 2 published reports?</p>	Bidder may provide last available report, shall be considered.	Ishaan



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
546.	73. C22 - Enterprise Mgmt. Solution Suite	148	<p>To ensure EMS doesn't introduce any unsolicited security loopholes and concerns, only SNMP v3 compliant devices must be integrated with the EMS systems and the MSI should ensure that non-standard ports and non-standard community strings are always used where possible.</p> <p>EMS solution Security is of utmost priority for environment like ICG, where EMS solution will touch base every component in environment for monitoring and automation functions and certification, ISO 27034-1 standard helps organizations integrate security controls in the software through their software development cycle, by defining security frameworks &amp; vulnerability management processes. This certification protects customer assets from potential cyber breaches &amp; security threats while complying with the Application security standards. Hence request you to please confirm if the proposed EMS solution OEM should be ISO 27034 certified from Global Leading Certified Agencies and documentary proof must be provided at the time of submission?</p>	The bidder to comply to the conditions/ requirements at para 73 on page 145 of RFP. However, bidder can propose latest solution.	Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
547.	73. C22 - Enterprise Mgmt. Solution Suite	156	<p>The solution shall be able to correlate Application changes (code and configuration files) with change in Application performance.</p> <p>Under the application performance management software specification, this particular clause is favoring specific OEM's APM solution and requiring Diagnostic configuration management, which is not a generic APM spec. Hence requesting you to please delete this clause.</p>	The bidder to comply to the conditions/ requirements at para 73 on page 145 of RFP.	Ishaan
548.	73. C22 - Enterprise Mgmt. Solution Suite	154-156	<p>All clause under "Capacity Monitoring" Category</p> <p>Please confirm if the expected functionalities are required for all On-Premise &amp; Public/Private cloud VMs or only for On-Premise infrastructure?</p>	Required functionality required for on-premise private cloud infrastructure.	Ishaan
549.			The functionalities like cost governance and insight is primarily provided through Cloud Management software, if that required in this RFP scope?	The bidder to comply to the conditions/ requirements at para 73 on page 145 of RFP.	Ishaan
550.			Provide IT the capability to deploy applications on time by reserving IT resources for new applications and services - For this functionality, On-premise and cloud environment solutions are usually different and hence is important to confirm if the applications deployment is expected in cloud or on-premise infra?		Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
551.	93.17	247	<p>Should be application aware and provide Full Proxy for protocols such as HTTP, HTTPS, FTP, SIP, DNS, Diameter, RADIUS etc.</p> <p>Request to kindly amend the clause "Should be application aware and provide Full Proxy for protocols such as HTTP, HTTPS, FTP, SIP, DNS, RADIUS etc."</p>	The bidder to comply to the conditions/ requirements at para 93.17 on page 247 of RFP.	Ishaan
552.	93.18	247	<p>Should support inspection of SSL traffic for reverse proxy and forward proxy deployment. Should also support ICAP interface for integration with external security systems.</p> <p>Request to kindly amend the clause "Should support inspection of SSL traffic for reverse proxy deployment. Should also support ICAP interface for integration with external security systems."</p>	The bidder to comply to the conditions/ requirements at para 93.18 on page 247 of RFP.	Ishaan
553.	93.19	247	<p>Should support IoT Device authentication over SSL and MQTT Message parsing and MQTT load balancing.</p> <p>Request to remove this clause.</p>		Ishaan
554.	93.25	247	<p>It should have capability to automatically analyze attacks like Brute Force and avail CAPTCHA on the fly to users to identify bot / scripted attacks</p> <p>Kindly amend "It should have capability to automatically analyse attacks like Brute Force."</p>		Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
555.	93.27	248	It must be able to detect the presence of Remote Access Trojans (RATs) residing in the user's web browser.  Request to Remove this clause.	The bidder to comply to the conditions/ requirements at para 93.27 on page 248 of RFP.	Ishaan
556.	93.28	248	It should perform comprehensive countermeasure to protect against zero day attack, Challenge – Response Mechanism, which should be able to detect and protect attacks in real time through inbuilt Captcha Mechanism  Kindly amend "It should perform comprehensive countermeasure to protect against zero day attack, Challenge – Response Mechanism, which should be able to detect and protect attacks in real time "		Ishaan
557.	93.29	248	It should encrypt the sensitive field in the application in real time as compared to being encrypted after a submit button or equivalent being pressed  Please elaborate on the requirement of this clause.	Mentioned capability is required as part of solution. Bidder to bid as per RFP specifications.	Ishaan
558.	93.35	248	Should have a built-in tool to take a snapshot of the unit for troubleshooting and analysis purpose  Kindly elaborate requirement for this clause. Our solution is able to download the debug logs for troubleshooting. Is this what is required from this clause ?	Mentioned capability is required as part of solution. Bidder to bid as per RFP specifications.	Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
559.	93.36	248	<p>Vendor should provide a service to upload this snapshot and get feedback on the health of the unit &amp; missing Hotfixes and best practices</p> <p>Our solution runs on hardened appliance. If there are any vulnerabilities, they are fixed in next releases. Our solution strives to ensure the highest level of security, adhering to rigorous testing and validation standards for our service engines and controllers. Kindly confirm if this meets the requirement of this clause</p>	The bidder to comply to the conditions/ requirements at para 93.36 on page 248 of RFP.	Ishaan
560.	8.0.	249	<p>OEM should be listed in Gartner leader quadrant for ADC for last 3 years consecutively</p> <p>Kindly remove this clause</p>	Bidder to provide last available report.	Ishaan
561.	55.18	103	<p>The Solution should be capable to determine optimal number of containers fits with the environment.</p> <p>Kindly amend "The Solution should support to deploy optimal number of containers that fits with the environment based on available resources and discovery exercise."</p>	The bidder to comply to the conditions/ requirements at para 55.18 on page 103 of RFP.	Ishaan
562.	55.2	103	<p>The solution should be capable of automatically keep application cluster up to date with the latest release version of container-orchestration system.</p> <p>Kindly amend "The solution should be capable of keeping Kubernetes application cluster up to date with the latest release version of container-orchestration system with defined commands and process."</p>	The bidder to comply to the conditions/ requirements at para 55.2 on page 103 of RFP.	Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
563.	55.23	103	<p>Solution should provide rest API to that exposes operations for managing a cluster, security and user management, application deployments, image and source builds, HTTP(s) routing and project management.</p> <p>Kindly amend "Solution should provide rest API to that exposes operations for managing a cluster."</p>	The bidder to comply to the conditions/ requirements at para 55.23 on page 103 of RFP	Ishaan
564.	55.24	103	<p>The solution should provide an integrated networking solution (CNI implementations) as well as provide advance turnkey container networking services at Layer 2 through 7 such as DNAT/SNAT, DHCP, Load Balancers (L4 and L7) and firewall in addition to switching and routing (North-South and East-West</p> <p>Kindly amend "The solution should provide an integrated networking solution (CNI implementations) as well as provide advance turnkey container networking services at Layer 2 through 7 such as DNAT/SNAT, DHCP in addition to switching and routing (North-South and East-West"</p>	The bidder to comply to the conditions/ requirements at para 55.24 on page 103 of RFP.	Ishaan
565.	70.13	143	<p>WAN bandwidth of 8 Mbps at ROBO site and 40 Mbps at Central Data Center site</p> <p>Kindly amend "WAN bandwidth of 32 Mbps at ROBO site and 1000 Mbps at Central Data Center site"</p>	The bidder to comply to the conditions/ requirements at para 70.13 on page 143 of RFP.	Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
566.	30	Technical Details	<p>As per our understanding following would be the implementation scope for software defined data Centre:            Deployment of software define data centre technologies for Intranet Zone as per following:</p> <ul style="list-style-type: none"> <li>• Deployment of virtualization platform using proposed hypervisor and hypervisor management tool across DC, NLDC, DR</li> <li>• Deployment of log management and operations tool across DC, NLDC, DR for proposed virtualization platform</li> <li>• Deployment of Software Defined network and integrate with virtualization platform across DC, NLDC, DR</li> <li>• Implement software defined network to provide capabilities like distributed IDS/IPS</li> <li>• Enable micro segmentation, distributed firewalls, gateway firewalls, advanced load balancer capability for applications across DC, NLDC, DR</li> <li>• Implement container platform at DC &amp; DR, deploy 2 Kubernetes workload environments and demonstrate one sample workload on container platform</li> <li>• Deployment of cloud management platform at Primary DC and failover to DR site.</li> <li>• Configure cloud management platform to manage and deploy VM workloads across DC, NLDC, DR</li> <li>• Configure proposed cloud management platform to have a service catalogue for Infrastructure as a service for its consumers to deploy Windows and Linux workloads across DC, NLDC, DR</li> </ul>	<p>1. Scope for the DC, DRDC &amp; NLDC has been placed at Appendix - "A".</p> <p>2. For Project timeline prefers to para 44 of Part-II on page 22 of RFP.</p>	Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<ul style="list-style-type: none"> <li>Integrate cloud management platform to configure network and security during workload provisioning</li> <li>Implement workload failover orchestration and replication from DC/NLDC to DR via proposed DR automation tool</li> </ul> Deployment of virtualization platform using proposed hypervisor and hypervisor management tool at DC and DR for Internet Zone.  Request to define the scope to factor appropriate implementation scope and timelines for the project		
567.	52.2	The solution should have capability to automate the bring-up process of the entire software platform, including deployment of infrastructure VMs, creation of the management cluster, configuration of VLANs, configuration of virtual storage, virtual network, and cluster creation and provisioning.	Kindly amend "The solution should have capability to automate the bring-up of the service including deployment of infrastructure VMs,c configuration of network and security, configuration of storage with VMs etc"  We understand that requirement is to automate the provisioning and day. 2 operations	Bidder to provide the system with capability to automate the bring-up process of the entire software platform, including deployment of infrastructure VMs, creation of the management cluster, configuration of VLANs, configuration of virtual storage, virtual network, and cluster creation and provisioning.	Ishaan
568.	55.16	104	Container Platform should integrate with Cloud Management Portal providing visibility into VMs and Containers with automated policy management.  Please clarify the requirement of automated policy management	Solution should support to enable identity and access management and configure policies for role based access to container platform	Ishaan



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
569.	91.43	243	Should able to monitor Application, Middleware and Database for leading enterprise software systems  Please move it to C22 enterprise Mgmt Solution Suited	Requirement to be met by overall solution proposed by bidder	Ishaan
570.	91.44	243	Should natively support application monitoring for Oracle Fusion Middleware, Oracle Databased, Cisco CUCM for Enterprise Unified Communication and MS Exchange.  Please move it to C22 enterprise Mgmt Solution Suited	Requirement to be met by overall solution proposed by bidder	Ishaan
571.	52	94	Cloud Billing  We understand that requirement is for showback/ metering of resources, however no billing software is required	RFP requirement to be met for show back/ metering of private cloud resources	Ishaan
572.	Clause 4 , Special features of the RFP, Page 5		The functional requirements and implementation of the private cloud for ICG will be fully integrated with the supplied and existing hardware / software i.e. integration with manager of the hypervisor, Software Defined Network and storage etc.  Kindly suggest if Indian Coast Guard is using any SIEM product in its existing IT Infrastructure. Is the existing SIEM required to be integrated with new SIEM and SOAR. Kindly suggest.	Requirement is capability of proposed solution to be able to ingest data/ events from any SIEM technology. The technology solutions must be able to integrate with any technology, no platform dependency. Hence, Bidder to provide solution as per the requirement given at para 76 SI C-25 on page 174 to 183 of RFP.	Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
573.	General Requirements Serial No76.1, Page 176		<p>The proposed solution must include Log Management, Next Gen SIEM, Security Analytics, Big Data Analytics with necessary automation capabilities from a single OEM. The solution index gigabytes of data per day on commodity hardware and provide multi-tier horizontal scalable architecture without the requirement of a HDFS file system. The solution should be built on software that can be deployed on physical or virtual infrastructure. The proposed solution should have physical or logical separation of the collection module, logging module and analysis / correlation module with the ability for adding more devices, locations, applications, etc. The proposed solution must be able to collect, capture, categorize, filter, index, search event data, logs and alerts in real-time or near-real-time from any of the software, hardware, devices or appliances that produce such information. Proposed solution should not be built on any opensource components and all components should be proprietary to the OEM.</p> <p>We would kindly request to change this clause as per below</p> <p>"The proposed solution must include Log Management, Next Gen SIEM, Security Analytics, Big Data Analytics with necessary automation capabilities. The solution index gigabytes of data per day on commodity hardware and provide multi-tier horizontal scalable architecture without the</p>	SIEM is an important tool for the cyber security, requisite functionalities are critical in the tool. Bidder can use multiple tool or product to provide the desired functionality in the SIEM	Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>requirement of a HDFS file system. The solution should be built on software that can be deployed on physical or virtual infrastructure. The proposed solution should have physical or logical separation of the collection module, logging module and analysis / correlation module with the ability for adding more devices, locations, applications, etc. The proposed solution must be able to collect, capture, categorize, filter, index, search event data, logs and alerts in real-time or near-real-time from any of the software, hardware, devices or appliances that produce such information. Proposed solution should not be built on any opensource components and all components should be proprietary to the OEM. "</p>		
574.	General Requirements Serial No.76.2, Page 177		<p>Proposed solution have the ability to natively monitor layer 7 traffic and perform deep packet inspection (DPI). Solution should support full packet capture and should have the ability where download packets can be restricted based on user/group. Proposed solution should not use any SQL or Flat files or RDBMS database for storing logs and events.</p> <p>Since, Deep Packet Inspection (DPI) capability is required, we would kindly request to provide throughput for performing Deep Packet Capture.</p>	<p>Solution must collect all flows and packets. The solution should have the capability to collect netflow traffic either natively or via promiscuous mode. It should provide availabilities to trigger packet captures if required by the analyst to perform deep analysis. SIEM vendor may size it inline with Data ingestion using best practices. Bidder to provide workable solution as per the requirement given at para 76 SI C-25 on page 174to183 of RFP.</p>	Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
575.	General Requirements Serial No.76.9, Page 177		<p>Machine learning should be embedded across the platform(SIEM, SBDL). It should empower every user in the SOC with ML. Security analyst to become citizen data scientist i.e. used predefined ML algorithms to detect &amp; predict threats, threat hunters to build their own ML models with steps to build, train and implement model and data scientists should be able to integrate advanced ML frameworks.</p> <p>We would kindly request to change this clause as per below</p> <p>"Machine learning should be embedded across the platform(SIEM, SBDL). It should empower every user in the SOC with ML. Security analyst to become citizen data scientist i.e. used predefined ML algorithms to detect &amp; predict threats, threat hunters to build use existing models/build their own ML models with steps to build, train and implement model and data scientists should be able to integrate advanced ML frameworks. "</p>	<p>Bidder to comply to the RFP specifications. Solution should be able to Integrate advanced ML frameworks which will give flexibility and help achieve the outcome. Also, SIEM with advance ML capabilities which enable the user to import custom models or import any additional open source ML models. As per RFP, embedded machine learning technology to meet requirement of advanced ML Frameworks, use cases and to also mitigate new risks and meet everchanging environment requirements today as well in future. OEM/SI May bring in multiple technologies or tools to give desired outcome. ML is common technology these days in any next gen. platform.</p>	Ishaan
576.	Correlation & Dashboarding Serial No.76.11 Page 178		<p>The proposed solution must support the data replication natively without relying on other third-party replication technologies on the operating system or storage level with near zero RPO and RTO. Like big data platforms solution should also allow admin to decide on replication factor within DC and replication factor for DR. DR should always be active and should be updated with artifacts for any incident analyst is working</p>	<p>Functionality require to monitor unparsed events either to ensure no attack/ anomaly. Bidder to provide workable solution as per the requirement given at para 76 SI C-25 on page 174to183 of RFP. Bidder can provide more functionality against this specification.</p>	Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>on. The proposed solution should be able to receive, ingest and index structured or unstructured data without schema or normalization and no events should be dropped if log source changes the format of log data. Unparsed events should be usable for co-relation and machine learning models.</p> <p>We would kindly request to change this clause as per below:-</p> <p>"The proposed solution must support the data replication natively without relying on other third-party replication technologies on the operating system or storage level with near zero RPO and RTO. Like big data platforms solution should also allow admin to decide on replication factor within DC and replication factor for DR. DR should always be active and should be updated with artifacts for any incident analyst is working on. The proposed solution should be able to receive, ingest and index structured or unstructured data without schema or normalization and no events should be dropped if log source changes the format of log data. Unparsed/parsed events should be usable for co-relation and machine learning models."</p>		

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
577.	Correlation & Dashboarding Serial No.76.13 Page 178		<p>Next Gen Big Data Analytics platform should be sized to ingest data of 1Tb/day in the form of logs, events, metrics and traces. Security monitoring solution should be sized for sustained data of 500 Gb/day at all layers but should be able to handle peak of 1 Tb/day at all layers without dropping events or queuing events. There should be no limitation on the number of servers, users or log sources integrated with the solution and it should not have an impact on the license in case servers, users or data source count changes, till the time data ingestion size remains 500 GB/day.</p> <p>Kindly suggest the sizing required for Online and Offline (Archival) for Log retention.</p>	Bidder to provide workable solution as per the requirement given at para 76 SI C-25 on page 174 to 183 of RFP. However, bidder must comply with CERT-IN guidelines for storing of logs for 90 Days online and 180 days offline.	Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
578.	Incident Management Serial No.76.32 Page 182		<p>The proposed solution must provide an interface that allows the same query string to be configured as an alert, report or a dashboard panel. Same query string should also be capable of being used for SBDL &amp; SIEM. Solution must provide a field extraction wizard that is used to create parsers and allow testing and validation with existing live or historical data within the system from the web interface. Old data should be parsed with new parser without re ingesting or reindexing the data.</p> <p>We would kindly request to change this clause as per below:-</p> <p>"The proposed solution must provide an interface that allows query string to be configured as an alert, report or a dashboard panel. Similar query string should also be capable of being used for SBDL &amp; SIEM. Solution must provide a field extraction wizard that is used to create parsers and allow testing and validation with existing live or historical data within the system from the web interface. Old data should be parsed with new parser with/without ingesting or reindexing the data."</p>	Bidder to provide workable solution as per the requirement given at para 76 SI C-25 on page 174 to 183 of RFP.	Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
579.	Machine Learning & Security Analytics Serial No.76.33, Page 182		<p>The proposed solution must provide GUI that can easily help to build, built-in or custom machine learning models using the guided experience and should be able to integrate with generic machine learning tools.</p> <p>We would kindly request to change this clause as per below:-            "The proposed solution must provide GUI that can easily help to build, built-in or custom machine learning models/detection rules using the guided experience and should be able to augment the detection done using pre-built machine learning with alert rules."</p>	Bidder to provide workable solution as per the requirement given at para 76 SI C-25 on page 174 to 183 of RFP. Bidder must provide latest and workable solution.	Ishaan
580.	Machine Learning & Security Analytics Serial No.76.34, Page 182		<p>The proposed solution should have machine learning platform embedded in the solution that can easily help to build, built-in or create unlimited custom machine learning models using the pre-defined sequence and should be able to integrate with a collection of NLP and classical machine learning libraries, generic machine learning tools.</p> <p>We would kindly request to change this clause as per below:-            "The proposed solution should have machine learning platform embedded in the solution that can easily help to build, built-in or create unlimited custom machine learning models/detection rules. There should not be any limitation in writing detection rules. An Analyst can write unlimited detection rules without any</p>	Bidder to provide workable solution as per the requirement given at para 76 SI C-25 on page 174 to 183 of RFP. Bidder must provide latest and workable solution.	Ishaan



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			restriction on the license to detect threat anomalies. "		
581.	Machine Learning & Security Analytics Serial No.76.35, Page 182		<p>The proposed solution machine learning capabilities must allow addition of custom machine learning algorithms from popular open source libraries.</p> <p>We would kindly request to change this clause as per below:-</p> <p>The proposed solution machine learning capabilities must allow addition of custom machine learning algorithms/alert detection rules from popular open source libraries by supporting writing similar logic in the solution.</p>	Bidder to provide workable solution as per the requirement given at para 76 SI C-25 on page 174 to 183 of RFP. Bidder must provide latest and workable solution.	Ishaan
582.	Monitor, Alert & Reporting Serial No.76.42, Page 184		<ul style="list-style-type: none"> <li>The proposed solution must be able to support predictive analytics to predict future values of single or multi-valued fields. This will help security analytics to predict the attack patterns or specific attacks using multiple fields in the alerts or logs</li> </ul> <p>Predictive analytics is based on the behavioral pattern and activity which is not native to SIEM technology across the industry. We would kindly request to delete this clause for wider participation.</p>	Bidder to provide workable solution as per the requirement given at para 76 SI C-25 on page 174 to 183 of RFP. Bidder must provide latest and workable solution by multiple tools integrated to meet the requirement .	Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
583.	Monitor, Alert & Reporting Serial No.76.42, Page 184		<p>a. Uses historical data as a baseline to forecast future patterns, thresholds and tolerances</p> <p>Predictive analytics is based on the behavioral pattern and activity which is not native to SIEM technology across the industry. We would kindly request to delete this clause for wider participation.</p>	<p>Bidder to provide workable solution as per the requirement given at para 76 SI C-25 on page 174 to 183 of RFP. Bidder must provide latest and workable solution by multiple tools integrated to meet the requirement .</p>	Ishaan
584.	Monitor, Alert & Reporting Serial No.76.42, Page 184		<p>b. Ability to identify the future needs of critical system resources, no prior knowledge in predictive modeling algorithms required to use this functionality, and the ability to easily interpret and customize the results</p> <p>Predictive analytics is based on the behavioral pattern and activity which is not native to SIEM technology across the industry. We would kindly request to delete this clause for wider participation.</p>	<p>Bidder to provide workable solution as per the requirement given at para 76 SI C-25 on page 174 to 183 of RFP. Bidder must provide latest and workable solution by multiple tools integrated to meet the requirement .</p>	Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
585.	Page No. 254, Para 97	OEM qualification requirement	<p>Data Centre, DR Data Centre and Zero Touch ROBO OEM components of Hardware, Hyper-Converged Appliances for ROBO, Virtual NGFW, Backup software, SDDC software, SD-WAN should have been mentioned in latest Gartner Magic Quadrant/ Forrester Wave Reports in respective product category.</p> <p>As per RFP, computing, storage, networking and security products should be mentioned in latest Gartner Report. However, SDWAN devices is not covered under Gartner report. Therefore, the clause may be exempted for SDWAN</p>	<p>Para 97 on page 254 of RFP may be read as</p> <p>for "SDWAN" read "WAN SWITCH"</p> <p>and</p> <p>'Data Center..... Gartner Magic Quadrant/ Forrester Wave Reports or relevant Indian certifications/ report such as TEC/ TSEC, STQC, BIS or their accredited lab reports in respective product category'.</p>	Infinity Lab

**ERP PRE-BID QUERIES AND REPLY**

<b>Ser</b>	<b>RFP reference</b>	<b>Content of RFP requiring clarification</b>	<b>Points of clarification / Query by Bidder</b>	<b>Response/ Clarification</b>	<b>Vendor</b>
1	245. Provisioning/ De-provisioning, Maintenance, DevOps as SaaS for ERP at Central & ROBO sites. / Page no 395	245.2 ERP to be deployed with single-click automation to DC, DR and ZT-ROBO Units connected over MPLS/ VSAT links/ through tools, processes and procedures.	ERP is complex Software which is to be deployed at DC, DR and Robo Sites. This would involved multiple tools/software to be Integrated hence the possibilities of single-click automation may not be achieved. Kindly consider to remove Single-Click Automation.	Bidder to utilise the set process, tools and procedures for the deployment of ERP.	HPE
2	Page no 394 - 241.10	All computing, storage and networking should be single OEM to provide native integration support between storage/ network/ computing, integrated management, single-point-of-support, and SDDC integration with OpenStack	Kindly confirm your understanding & change this to only server & Storage perspective.	As per para 241.10 on page 391, referring about ERP hardware mentioned at page 501 of RFP. Bidder to comply with the requirement projected in mentioned para.	HPE
3	393/ 245.2	ERP to be deployed with single-click automation to DC, DR and ZT-ROBO Units connected over MPLS/ VSAT links/ through tools, processes and procedures.	Kindly amend "ERP to be deployed to DC, DR and ZT-ROBO Units connected over MPLS/ VSAT links/ through tools, processes and procedures."  Initial implementation is done through set process and procedure of ERP systems. Automation will help in day 2 operations and provisioning systems.	Bidder to utilise the set process, tools and procedures for the deployment of ERP.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
4	24/ 44.26 & 44.28	First Pilot implementation demonstration of ERP SAFAL/ MVCR in ICG network - Timelines : T0 + 9 month Second Pilot implementation demonstration of ERP SAFAL/ MVCR- Timelines : T0 + 11 month	Project schedule for ERP implementation is very tight 3 months for Pilot-1 (T0+9) and 2 months for Pilot-2 (T0+11). OEM audit ((T0+17), Security audit(T0+18) and UAT(T0+21)  First Pilot implementation demonstration of ERP SAFAL/ MVCR in ICG network - - Timelines : T0 +12 month Second Pilot implementation demonstration of ERP SAFAL/ MVCR - Timelines : T0 + 16 month	The timeline for the project is based on the response of bidders during the RFI process. Bidder(s) to comply with RFP conditions.	HPE
5	24/ 44.26 & 44.28	First Pilot implementation demonstration of ERP SAFAL/ MVCR in ICG network - Timelines : T0 + 9 month Second Pilot implementation demonstration of ERP SAFAL/ MVCR- Timelines : T0 + 11 month	Details First Pilot and Second Pilot on SAFAL ERP is required may be defined  Details of modules to be released in First Pilot and Second Pilot on SAFAL ERP may be defined in RFP or as proposed in SRS may be approved.	Details of modules to be released in both pilot implementation of SAFAL ERP will be mutually decided during SRS phase.	HPE
6	23/ 44.17	Completion of site survey and feasibility report of all network nodes. Timelines : T0 + 5 month	Completion of site survey and feasibility report of all network nodes with in 03 months is difficult and necessary approval also is required to visit all locations  Completion of site survey and feasibility report of all network nodes. Timelines : T0 + 6 month	The timeline for the project is based on the response of bidders during the RFI process. Bidder(s) to comply with RFP conditions.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
7	24/ 44.19	Delivery of ERP licences and Development Hardware for ERP. Timelines : T0 + 6 month	Hardware for ERP landscape of DEV and QAS. ERP licenses for Development as per ERP OEM requirement.  Delivery of ERP licenses and Development Hardware for ERP as proposed by ERP OEM. Timelines : T0 + 6 month	Bidder to provide COTS ERP hardware, license as per the sizing of ERP OEM.	HPE
8	405	ERP- As per Para 107 to 245 of Appendix 'A'	SAP compliance for Functional Requirement as per RFP,	Bidder has to provide the compliance for the overall ERP functional requirement. Also, separately mention the non-complied functional requirement in a separate document.	HPE
9	389/ 238.10	Also, PARAM forms/ Gx, YATRA ICG portal can also be migrated to proposed ERP solutions.	PARAM forms/Gx, YATRA ICG portal migration required clarification on SAFAL ERP: Non-Functional Requirement  Necessary clarification is required to do this migration	Details about various modules and migration requirement will be provided during the SRS stage.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
10	387/ 237.5	The solution software should be certified for different types of hardware	<p>Hardware for ERP as per ERP OEM requirement.</p> <p>The solution software should be certified for different types of hardware as per ERP OEM.</p>	Yes, Solutions means COTS ERP solution, which should be readily deployable with or without configuration to suit the ICG requirement and does not involve development of solution from scratch. The proposed ERP product must be a COTS product with the maximum 30% customization and 70% ready framework. Also, COTS ERP must be user based licensesing. The hardware for the proposed COTS ERP solution must be as per the OEM sizing and OEM software product have a published document on hardware compliance.	HPE
11	Page 4, Special Features of RFP	Supply of Enterprise Database licenses as required including offline remote replication support for ICG Ships and internet zone. The proposal to include warranty for two years (including ATS) followed by AIAMC support for three years (including ATS) post final acceptance and go-live of ERP.	The ERP OEM generally supply a run time database license along with the ERP software. ERP vendor only provide support for the database if the run time database licenses are supplied by them. And the ATS support covers both the ERP Application and the database. Database License becomes an integral part of the ERP license and can be deployed on any number of cores (in DC as well as DR) to the Extent of Licensed ERP Software. Request you to please consider Runtime Database for ERP.	The bidder to comply to the conditions/ requirements at para 4(b) on page 4 of RFP.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
12	Page 284,287 (Points 132 & 136)	E-Procurement, RFP & Tendering	e-Procurement solutions are not an integral part of ERP Solution. However, some of the ERP OEM also provide e Procurement software which need to be deployed separately and have out of the box integration to the ERP solution. Since all government organizations are to use GEM/ e-procurement portal for GOI (for e-procurement) -Is there a need for a separate e-procurement solution.	System to create the specific documents pertaining to e procurement, however development of e-procurement portal is beyond the scope of this RFP.	HPE
13	Page 390 Clause 240.1	(a)NUP mapped users may not be always available. In that case, NUP need to be transferred temporarily to other Users as required by Coast Guard	The NUP user will have to be deactivated (De- provisioned) and then a temporary user can be provisioned	This is the required functionalities. Bidder's understanding is correct.	HPE
14	Page 390 Clause 240.5	Should support by providing licenses as required for 'ERP Unlimited Data Exchange' for any given ICG 'ERP Instance' with other ICG software systems such as 'ICG SIMHA' and BRASS etc.	Please indicate the type and volume of data exchange. This should indicate the number of transactions resulting in update, change or delete in the ERP system.	The conditions at para 240.5 on page 390 of RFP are to be complied. Number of transaction will be intimated during SRS stage.	HPE
15	Page 392 Clause 245	Provisioning/ Deprovisioning, Maintenance, DevOps as SaaS for ERP at Central & ROBO sites	ERP's are not plug and play software which can be provisioned /de provisioned with click of a button. There are tools, procedures and processes to provision/ deprovision an ERP system as a whole or a part of the deployment.	Functionality of the solution is provided in the ERP, bidder to utilise the tools and provide workable solution.	HPE
16		245.1 ERP software should be provisioned/ deprovisioned as Self-service using SaaS software	Request you to please delete this requirement.		HPE



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
17		245.2 ERP to be deployed with single-click automation to DC, DR and ZT-ROBO Units connected over MPLS/VSAT links		Bidder to utilize the set process, tools and procedures for the deployment of ERP.	HPE
18	Page no. 387 SAFAL ERP: NON-FUNCTIONAL REQUIREMENT	237. General Features 237.15 The application should have automatic way of migrating the data of existing database in case of data structure change during transfer to new versions. 237.16 The solution should support export and import of data possible from different legacy systems/ other systems/ databases in different file formats and on specified time intervals.	Please provide details of any existing data to be migrated to the new ERP system. Any data which is to be digitized and migrated should also be considered while designing the solution. If so please share the data size, type of data.	Details of data migration will be provided during the SRS stage.	Mahindra Defence
19	Page no. 391 SAFAL ERP: NON-FUNCTIONAL REQUIREMENT	241.9 Computing, storage, networking, security products should be mentioned in latest Gartner Report.	If there is no corresponding Gartner Report available for the mentioned products, please confirm that other market reports like Forrester etc. will be acceptable or not.	Bidder to provide Gartner Magic Quadrant/ Forrester Wave Reports/or more or relevant Indian certifications/ report such as TEC/ TSEC, STQC, BIS or their accredited lab reports	Mahindra Defence
20	245.2,393	ERP to be deployed with single-click automation to DC, DR and ZT-ROBO Units connected over MPLS/ VSAT links/ through tools, processes and procedures.	Kindly amend "ERP to be deployed to DC, DR and ZT-ROBO Units connected over MPLS/ VSAT links/ through tools, processes and procedures." [Initial implementation is done through set process and procedure of ERP systems. Automation will help in day 2 operations and provisioning systems].	Bidder to utilize the set process, tools and procedures for the deployment of ERP vide para 245.2 on page 392 of RFP.	Mahindra Defence

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
21	Page 284,287 (Points 132 & 136)	E-Procurement, RFP & Tendering	e-Procurement solutions are not an integral part of ERP Solution. However, some of the ERP OEM also provide e Procurement software which need to be deployed separately and have out of the box integration to the ERP solution. Since all government organizations are to use GEM/ e-procurement portal for GOI (for e-procurement) -Is there a need for a separate e-procurement solution.	System to create the specific documents pertaining to e procurement, however development of e-procurement portal is beyond the scope of this RFP	Mahindra Defence
22	Page 390 Clause 240.1	(a)NUP mapped users may not be always available. In that case, NUP need to be transferred temporarily to other Users as required by Coast Guard	The NUP user will have to be deactivated (De- provisioned) and then a temporary user can be provisioned	The conditions at para 240.1 on page 390 of RFP are to be complied.	Mahindra Defence
23	Page 390 Clause 240.5	Should support by providing licenses as required for 'ERP Unlimited Data Exchange' <sup>1</sup> for any given ICG 'ERP Instance' with other ICG software systems such as 'ICG SIMHA' and BRASS etc.	Please indicate the type and volume of data exchange. This should indicate the number of transactions resulting in update, change or delete in the ERP system.	The conditions at para 240.5 on page 390 of RFP are to be complied. licenses as required for ERP Unlimited Data Exchange'	Mahindra Defence
24	Page 392 Clause 245	Provisioning/ Deprovisioning, Maintenance, DevOps as SaaS for ERP at Central & ROBO sites 245.1 ERP software should be provisioned/ deprovisioned as Self-service using SaaS software 245.2 ERP to be deployed with single-click automation to DC, DR and ZT-ROBO Units connected over MPLS/VSAT links	ERP's are not plug and play software which can be provisioned /de provisioned with click of a button. There are tools, procedures and processes to provision/ deprovision an ERP system as a whole or a part of the deployment. Request you to please delete this requirement.	Functionality of the solution is provided in the ERP, bidder to utilize the tools and provide workable solution. Bidder to utilize the set process, tools and procedures for the deployment of ERP.	Mahindra Defence

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
25	HARDWARE SPECIFICATIONS FOR ERP C37 - All Flash Unified Storage, Page 227	HARDWARE SPECIFICATIONS FOR ERP storage	Specification of storage Array in this section are couple of generation old. Request to replace this specification with storage array specification at C09 section 60 at page 109. This change would provide access to latest technology product available in the Industry along with uniformity in management.	This is minimum required specification to be mandatorily complied with. Bidder has to comply with RFP requirements as given at para 60 -Sl. C09. Bidder has to quote as per ERP OEM sizing.	Mahindra Defence
26	HARDWARE SPECIFICATIONS FOR ERP C39- Composable IT Infrastructure with SDDC, Page 235	HARDWARE SPECIFICATIONS FOR ERP composable	Specification of Composable infrastructure in this section are couple of generation old. Request to replace this specification with Composable IT infrastructure specification at C07 section 58 at page 105. This change would provide access to latest technology product available in the Industry along with uniformity in management.	Bidder to comply with RFP requirements as given at para 58 -Sl. C07. Bidder has to quote as per ERP OEM sizing.	Mahindra Defence
27	C40-Software Defined Data Centre (SDDC) for DC, DR & ROBO sites, 91.12 to 91.17 Software Defined Storage Page 242	Software Defined Storage	We understand Software defined storage is applicable for ROBO locations only. Kindly confirm.	As per sl 62.4 on page 119 and para 91 on page 239 of RFP, the SD storage will be required for all ROBO site and as well as DC and DRDC.	Mahindra Defence

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
28	Page 72,Section 39	In this Data Center arrangement, all/critical applications data will be replicated synchronously between main DC and NLDC, while replication between main DC and far DR will continue asynchronously. Depending on the situation BC/DR policy, in case of any failure/disaster at DC, such applications can either be instantaneously brought up from NLDC location without any significant lag and without any major data loss, or the far DR can be brought up for all the applications with data replication of remaining data from NLDC site.	Kindly confirm if ERP needs to be set up in such a way that it can be brought up from both NLDC as well as DR if required. Please confirm the % of compute that should be set up at NLDC and DR as compared to production. Also, please confirm how many non production environments need to be set up and with how much compute relative to production they should have.	Yes, ERP needs to set up in such a way that it can be brought up from both NLDC as well as DR. Details of % of compute and production, non-production environment will be discussed during design phase.	Mahindra Defence
29	Page 500, Section 2 and 9	2. ICG ships of about 150 Nos 9. Total ships are approx. 100 nos.	Point 2 talks about 150 ships while point 9 talks about 100 ships. Kindly confirm the number of ships.	Refers to SI 2 on page 500 about total ICG Ships around 150 Nos, additionally, SI 9 talks about ERP offline module deployable ships approx 100 Nos.	Mahindra Defence
30	Page 387,Section 237.2	Solution should be implemented of "Responsive Web Design" and Web 3.0 compliant. All customized UI5/UX should be based on ICG SIMHA 'Unified Portal' web theme and design. Application's design should be user friendly and UI5 supported.	There are security challenges with Web 3.0. There are no standard guidelines for Web 3.0 from Govt. of India. Auditing blockchain in Web 3.0 has been a challenge. Kindly explain the use case of blockchain or remove this clause.	The bidder to comply to the conditions/ requirements at para 237.2 on page 387 of RFP.	Mahindra Defence

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
31	Page 388, Section 237.23	The solution should support distributed processing.	Our understanding is that you wish to process some data in ERP running in offline mode in ships and rest at central ERP deployed in DC. Kindly confirm if our understanding of distributed processing is correct.	The ERP will be running in the offline mode onboard ships when not connected with the network. Hence, all the data will be residing on the servers of the ship. When ship will have connected with central server through network, it will be synched with the DC database.	Mahindra Defence
32	Page 388, Section 237.27	Application should have capability of Whitehall file system.	ICG already has a document management system as mentioned in RFP Page 401 (Point 4). You are also giving specs of Document Management (in RFP Page 334 (Point 176). Do you wish to extend existing DMS with Whitehall filing or you wish to have a new DMS with Whitehall filing capability.	Bidder to provide DMS with Whitehall filling system.	Mahindra Defence
33	Page 390,Section 240.4	Software licensing and relevant hardware architecture should be compliant to enterprise multi-hypervisor including VMWare ESXi, Microsoft HyperV.	Kindly allow ERP OEM to provide compatible OS and virtualization layer which is also license complaint at DC, DR, NLDC and ROBO servers for ERP. This would help limit the number of software licenses required and optimize the solution.	The bidder to comply to the conditions/ requirements at para 240.4 on page 390 of RFP.	Mahindra Defence
34	Page 13,Section 14 (b)	The bidder agrees to provide existing NATO Stock Numbers of OEM of each item supplied under the contract as per part list.	Please clarify what is meant by NATO Stock	NATO stock number is a 13 digit numeric code used for identifying all the standardized material items of supply as they have been recognized by all member states of NATO.	Mahindra Defence

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
35	Page 270, Section 111	System should be able to allow Professional Directorates to add list of equipments to be fitted on a ship under construction.	Request to clarify who are Professional Directorates	Professional Directorates means Directorates of ICG at Coast Guard HQ, New Delhi.	Mahindra Defence
36	Page 300,Section 144.5	Computer Aided Decision making	As CAD is not offered as part of COTS application it would be a third party application .Hence , it will not be part of offered application license line items. Hope our understanding is correct.	The requirement is Computer Aided Decision Making. Intention of this feature is easy decision making on the basis of the output from the ERP.	Mahindra Defence
37	Page 381, Section 221	Units not connected on ICG Intranet	Request to explain in details on the units , their expected functionalities with offered ERP	Offline module of the ERP will be deployed on the afloat platforms of ICG i.e.. Ships. All functionalities of ERP will be applicable in the offline module. Detailed processes of ERP modules will be discussed during SRS stage.	Mahindra Defence
38	Page 381,Section 222	Use of E-Cash Books	Request to explain the functionalities with ERP	E-cash book is replacement of CASH ACCOUNT BOOK currently being maintained for accounting. The details pertaining to this will be shared during the SRS phase.	Mahindra Defence
39	Page 384,Section 226.6	Veteran	Please explain what is Veteran cell	Veteren cell is the nodal Directorate for retired ICG personnel. The cell extend facilities to retired personnel related to retirement benefits and facilities.	Mahindra Defence
40	Page 392,Section 244.4 GRC	GRC should be implemented in the proposed ERP solution	Please explain the GRC functionality.	GRC stands for Governance, Risk and Compliance, which has standard functionalities.	Mahindra Defence

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
41	Page 500,Detail BILL of material for ERP	ERP Software Licenses	In page 500 the breakup of license is heavy transaction users 250, light users are 600 which in total application users is 850 . But as per the point number 9 the number of ships will be 100 and per ships 50 users . So the ship users are already considered within the 850 numbers or they are in addition.	As per para 240 on page 390 and sl 1 on page 500 of RFP, bidder to provide the licenses as per RFP requirement.	Mahindra Defence
42	Pg 492 – pt g	ERP – Must have implemented ERP solution for minimum 4000 ERP Licenses.	Please change it to “Must be implemented in any large Govt. Organization at multiple locations with more than 1000 users”.	The bidder to comply to the conditions/ requirements at para 5 and 6 on page 492 of RFP.	ECIL
43	Pg 19 – 27.	Technical offer must enable detail understanding of the functioning and characteristics of the IT Infrastructure and SAFAL ERP	What is SAFAL ERP? Can we supply any ERP which meets most of the functionality and has atleast one implementation.	SAFAL is short form for indicating the modules of envisaged ERP application. SAFAL is the nomenclature given to ERP solution by ICG. This doesn't indicate any product. ERP being offered must meet all the functionality and implementation experience as mentioned in RFP.	ECIL
44	279/- Seection 125.6	Equipment Management System (EMS) - 125 Funcationl Requirements	A. System should be able to update Ship Fit Definition (SFD) with all relevant details Me Model NO, Serial number and location in the ship. B. Is it expected to maintain the full configuration of ship in the ERP to manage SFD or any specific equipment? Please brief the type of equipment intended to be maintained as part of SFD	This is not an equipment. This is the functionality required in the ERP. Bidder to provide the functionality in the ERP system as prescribed in the functional requirement. Details will be discussed during the SRS phase.	TCS

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
45	279/ Equipment Management System (EMS)	124.1 Preventative Maintenance. Preventive maintenance can be described as maintenance of equipment or systems before fault occurs.	Please help elaborate the types of equipment covered in the scope of EMS. Does it include assets like Aircraft, Ships, Ground Vehicles etc? <b>[Response to this will help determine the scope for the ERP]</b>	Details of ship fitted equipment will be provided during the SRS phase.	TCS
46	279/Warehouse Management System (WMS)	121. Introduction For warehouse management, ICG may track quantity and value of all the materials, perform physical inventory, and optimize warehouse resources. Employees should plan, enter, and document warehouse and internal stock movements by managing goods receipts, goods issues, storage, picking and packing, physical stock transfers, and transfer postings.	Does Coast Guard at present have any warehouse hardware devices such as "Handheld Computers, bar code scanners, etc" for inventory putaway and tracking purposes? If yes, is it expected to integrate with such hardware equipment for effective WMS capabilities?	The defined feature as per para 121 on page 277 of RFP to be provided. Details of Warehouse and other ICG assets will be provided during the SRS.	TCS
47	307/ 152 Master Data Management	152.17 Able to generate Aircraft AOG daily state and other aviation returns based on AOG and access to respective units for updation of data on daily basis and RHQs as dashboard.	Requirement states to generate Aircraft AOG daily state and other aviation returns. Is it expected to maintain the aircraft record data in ERP and manage the aircraft status? If yes, is there an integration touch point to be considered to get aircraft data from existing Coast Guard system <b>[Justification: Response to this will help determine the scope for the SAFAL ERP and if asset details to be managed in the ERP]</b>	Details pertaining to functional processes will be provided during the SRS stage.	TCS
48	342/179 Management Information System	179.62 Ability of system to support the feature of delivering the reports to the online users through email, portal	Please confirm that the email will be provided by the department	The bidder to comply to the conditions/ requirements at para 179 on page 342 of RFP.	TCS



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
49	348/181 Audit	181.12 Ability of a system to ensure loan issues Is authorized by the competent authority. 181.13 Ability of a system to monitor the loan issues to ensure timely return with notification on loan expiry.	Is loan processing part of scope, if yes please provide the details of the requirement as per the requirements specified.	Functional requirement will be provided during the SRS stage.	TCS
50	370/Key Requirements (SAFAL ERP FINANCE)	204.7 The contract management module should have a repository of standard articles, special articles, standard terms and conditions and special terms and conditions and should be able to categorize these based on the type of contracts being signed so as to ensure over a period of time a library of conditions Is available to ensure effective contract authoring.	Can you please help elaborate about Contract Authoring needs? Is it expected in the SAFAL ERP to draft the contract terms and conditions, maintain repository and generate final contract document for publishing to vendors?	Bidder has to configure the capability to draft the contract as per various MoD guidelines of procurement on the proposed ERP solution.	TCS
51	374/212. Functional Requirements.	212.7 Payment approval process be mapped in the system as per the ICG requirements, and apprOval be given through system.(Payments voucher will be prepared by junior staff, for final payments it will be reviewed by the approving authority for releasing the payment).	Is payment gateway integration out of scope of this RFP?	Integration of payment gateway is beyond scope of bidder. However, system to have the capability to prepare the payment and get the approvals done.	TCS
52	384/section 226	Integration scope perspective	Is ICG also considering Payroll function to be handled in the ERP system or it will be handled outside the ERP system through integration?	Payroll module is out of the scope of the instant bid.	TCS

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
53	389/238. Application Architecture	238.8 The application and databases at the ships can be deployed locally to control the local ships inventory.	Please specify the case when the connectivity is not available at the ship, that is when the ship is at high-seas.	Yes, Proposed ERP must have offline capability. Offline ERP will be deployed onboard ship and utilised by Ship when not connected to network.	TCS
54	392/242. Sizing	244.2 Support IAM from Oracle as part of ICG SIMHA	Please conform that the IAM will be provided by the department and its license cost will be borne by the department. The SI will be responsible for integration only.	Bidder to provide the IAM solution and integrate with existing SIMHA architecture.	TCS
55	393/Staffing	248. All the Management and Operations behaviors are important to the successful and reliable operation of a data Centre, but staffing provides the foundation for all the others. Data Centre staffing encompasses the three main groups that support the data Centre, Facility, IT, and Security Operations. Facility operations staff addresses management, building operations, and engineering and administrative support. Shift presence, maintenance, and vendor support are the areas that support the daily activities that can affect data Centre availability. Important attributes of staffing are as under:-	Please conform that seating space will be provided by the department at the department premises for the entire support staff, like, data Centre support team, housekeeping, training team, solution deployment team etc.. for supporting the data Centre, Facility, IT, and Security Operations.	Yes	TCS

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
56	393/245.2	ERP to be deployed with single-click automation to DC, DR and ZT-ROBO Units connected over MPLS/ VSAT links/ through tools, processes and procedures.	Kindly amend "ERP to be deployed to DC, DR and ZT-ROBO Units connected over MPLS/ VSAT links/ through tools, processes and procedures." <b>[Justification: Initial implementation is done through set process and procedure of ERP systems. Automation will help in day 2 operations and provisioning systems].</b>	Bidder to utilise the set process, tools and procedures for the deployment of ERP.	TCS
57	401/DETAILS OF EXISTING HARDWARE/ SOFTWARE REQUIRED TO BE INTEGRATED	5. Anti-Malware Server+ Clients TrendMicro Smart Protection Complete 3 Servers with 100( CALs 6. HIPS Server+ Clients TrendMicro Deep Security Enterprise 3 Servers with 453 CALs 33. UTM Device Fortinet Fortigate 200E 02 (DR)	Kindly confirm the date of installation and End of Life for existing security components mentioned in RFP?	Validity of existing software is beyond scope of the instant bid.	TCS
58	402/INFORMATION SECURITY REQUIREMENTS	Clients	1. Please confirm that all the payments with respect to the audits will be borne by the department. The SI will be only responsible for supporting the audit and take necessary approvals/certificate from the auditor after resolving all the issues raised by the auditor. 2. Please provide a table specifying the type of audit to be undertaken at various stages of the project - Like once before go-live, with frequency of each audit during O&M phase.	1. Payments for the audits will be borne by the Bidder. 2. Security audit of requisite components to be carried out prior go-live.	TCS

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
59	403/ DETAILS OF EXISTING APPLICATIONS TO BE INTEGRATED TO ERP SOLUTIONS	TrendMicro Smart	Can you please provide the details of system where details of assets (Aircraft, Ship, Ground Vehicles etc) are maintained by Coast Guard? And is it expected for the SAFAL ERP to integrate with those systems? If yes, please provide the relevant touch points. For example, i. repairable removed from asset to notify procurement team, ii. Stock visibility into asset management system, iii. Part requirements for scheduled maintenance items and material requisitions etc. <b>[Justification: Response to this will help determine the scope for the integration]</b>	Details pertaining to functional processes will be provided during the SRS stage.	TCS
60	403/ DETAILS OF EXISTING APPLICATIONS TO BE INTEGRATED TO ERP SOLUTIONS  336/ - 176 Document Management.	Protection Complete	Under integration section, it is expected to be integrated with DMS system of Coast Guard, but in page# 336 under section "176 Document Management", a list of requirements briefs about document management capabilities. Can you please advise if the ERP will replace Coast Guard's DMS system? If not, can you please explain the integration touch points expected to be build <b>[Response to this will help determine the scope for the integration versus using Document Management capabilities within SAFAL ERP]</b>	Details pertaining to functional processes will be provided during the SRS stage.	TCS

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
61	General	General	<p>A. From Data Migration perspective which current systems will not continue ?</p> <p>B. How many integrations are we expecting with the ERP system?</p> <p>C. Please specify some examples of the bi-directional information exchange between each of the interfaces ?</p>	<p>Details of data migration will be provided during the SRS stage. (ii). Bi-directional data transaction means, all other applications outside ERP can access the Data base of ERP and having read, write permission.</p>	TCS
62	General	General	<p>A. Is our understanding correct that ICG is focusing on Asset Management, Human Resource, Finance and Supply Chain modules?</p> <p>B. Is the program focused on maintenance of all ICG Assets (Air, Surface, Ground vehicles)?</p> <p>C. What are the asset classes and asset categories that are currently being used? Number of assets currently being used?</p> <p>D. Does ICG has plan to integrate Safal with any OEM platform/software that comes along with new asset acquisition?</p>	<p>(a) ERP will comprising the modules as mentioned in para 2(b) on page 2 of RFP.</p> <p>(b) Maintenance is not in the scope of the instant project.</p> <p>(c) Details will be provided during SRS stage.</p> <p>(d) Details will be provided during SRS stage.</p>	TCS
63	General	General	<p>Have understand ICG has mentioned (16000, 250 heavy) users, kindly provide module wise</p> <p>A. No of maximum users</p> <p>B. No of concurrent users</p>	<p>As per para 240 on page 390 and sl 1 on page 500 of RFP, bidder to provide the licenses as per RFP requirement.</p>	TCS
64	General	General	<p>How many maintenance sites are being considered for future? Kindly specify the name of the cities.</p>	<p>The list of cities/ sites shall be provisioned at SRS stage.</p>	TCS

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
65	General	General	Tender and Quotation is mentioned in the document. Do you need the new system to manage your Sub Contractors work progress?	Functional requirement will be provided during the SRS stage.	TCS
66	General	General	What extent of depreciation function will be used in finance? Is there a requirement of Fixed Asset depreciation requirement in the Finance module?	Functional requirement will be provided during the SRS stage.	TCS
68	72	Section 39	<p>In this Data Center arrangement, all/critical applications data will be replicated synchronously between main DC and NLDC, while replication between main DC and far DR will continue asynchronously. Depending on the situation BC/DR policy, in case of any failure/disaster at DC, such applications can either be instantaneously brought up from NLDC location without any significant lag and without any major data loss, or the far DR can be brought up for all the applications with data replication of remaining data from NLDC site.</p> <p>Kindly confirm if ERP needs to be set up in such a way that it can be brought up from both NLDC as well as DR if required. Please confirm the % of compute that should be set up at NLDC and DR as compared to production. Also, please confirm how many non production environments need to be set up and with how much compute relative to production they should have.</p>	Yes, ERP will be brought up from both NLDC as well as DRDC. The compute needs to be provided as per the specifications given in the RFP. Details of the % of compute for production and non production will be provided during the IT infra design phase.	Sterlite

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
69	500		<p>2. ICG ships of about 150 Nos 9. Total ships are approx. 100 nos.</p> <p>Point 2 talks about 150 ships while point 9 talks about 100 ships. Kindly confirm the number of ships.</p>	<p>Federated data base replication must support for 150 ships as a futuristic measure. However, Implementation of ERP application in present scope is for 100 ships only.</p>	Sterlite
70	387	Section 237.2	<p>Solution should be implemented of "Responsive Web Design" and Web 3.0 compliant. All customized UI5/UX should be based on ICG SIMHA 'Unified Portal' web theme and design. Application's design should be user friendly and UI5 supported.</p> <p>There are security challenges with Web 3.0. There are no standard guidelines for Web 3.0 from Govt. of India. Auditing blockchain in Web 3.0 has been a challenge. Kindly explain the use case of blockchain or remove this clause.</p>	<p>The conditions at para 237.2 on page 387 of RFP are to be complied.</p>	Sterlite
71	388		<p>The solution should support distributed processing.</p> <p>Our understanding is that you wish to process some data in ERP running in offline mode in ships and rest at central ERP deployed in DC. Kindly confirm if our understanding of distributed processing is correct.</p>	<p>The ERP will be running in the offline mode onboard ships when not connected with the network. Hence, all the data will be residing on the servers of the ship. When ship will have connected with central server through network, it will be synched with the DC database.</p>	Sterlite
72	388		<p>Application should have capability of Whitehall file system.</p> <p>ICG already has a document management system as mentioned in</p>	<p>Bidder has to provide the DMS with the Whitehall filing capability</p>	Sterlite

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			RFP Page 401 (Point 4). You are also giving specs of Document Management (in RFP Page 334 (Point 176). Do you wish to extend existing DMS with Whitehall filing or you wish to have a new DMS with Whitehall filing capability.		
73	390		Software licensing and relevant hardware architecture should be compliant to enterprise multi-hypervisor including VMWare ESXi, Microsoft HyperV.  Kindly allow ERP OEM to provide compatible OS and virtualization layer which is also license complaint at DC, DR, NLDC and ROBO servers for ERP. This would help limit the number of software licenses required and optimize the solution.	The conditions at para 240.4 on page 390 of RFP are to be complied.	Sterlite
74	270		System should be able to allow Professional Directorates to add list of equipment to be fitted on a ship under construction.  Request to clarify who are Professional Directorates	Professional Directorates means Directorates of ICG at Coast Guard HQ, New Delhi.	Sterlite
75	300		Computer Aided Decision making  As CAD is not offered as part of COTS application it would be a third party application .Hence , it will not be part of offered application license line items. Hope our understanding is correct.	The requirement is Computer Aided Decision Making. Intention of this feature is easy decision making on the basis of the output from the ERP.	Sterlite



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
76	381		Units not connected on ICG Intranet  Request to explain in details on the units , their expected functionalities with offered ERP	Offline module of the ERP will be deployed on the afloat platforms of ICG i.e.. Ships. All functionalities of ERP will be applicable in the offline module.	Sterlite
77	381		Use of E-Cash Books  Request to explain the functionalities with ERP	E-cash book is replacement of CASH ACCOUNT BOOK currently being maintained for accounting. The details pertaining to this will be shared during the SRS phase.	Sterlite
78	384		Veteran  Please explain what is Veteren cell	Veteren cell is the nodal Directorate for retired ICG personnel. The cell extend facilities to retired personnel related to retirement benefits and facilities.	Sterlite
79	392		GRC should be implemented in the proposed ERP solution  Please explain the GRC functionality.	GRC stands for Governance, Risk, and Compliance, which has standard functionalities.	Sterlite
80	500		ERP Software Licenses  In page 500 the breakup of license is heavy transaction users 250, light users are 600 which in total application users is 850 . But as per the point number 9 the number of ships will be 100 and per ships 50 users . So the ship users are already considered within the 850 numbers or they are in addition.	Ship's users have already been considered within the stipulated licensing requirement.	Sterlite
81		GRC should be implemented in the proposed ERP solution	Please explain the GRC functionality.	GRC stands for Governance, Risk, and Compliance, which has standard functionalities.	Sterlite

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
82		ERP Software Licenses	In page 500 the breakup of license is heavy transaction users 250, light users are 600 which in total application users is 850 . But as per the point number 9 the number of ships will be 100 and per ships 50 users . So the ship users are already considered within the 850 numbers or they are in addition.	Ship's users have already been considered within the stipulated licensing requirement.	Sterlite
83	269	109.18	System should be able to check item authorization to the unit through D-787 or allowance list.  What is D-787	D-787 is an authorization document used in ICG wherein details of fitted equipment and onboard spares of ships on commissioning are contained. Details pertaining to functional processes will be provided during the SRS stage.	BEL
84	312	157.3	Ability to calculate/ decide HRC and BER.  What is HRC / BER?	Higher Repair Cost (HRC) is considered if cost of repair is more than 80% of original equipment cost. Beyond Economical Repair (BER) is a condition when an equipment have outlived its stipulated service life and repair cost is not economical. Details pertaining to functional processes will be provided during the SRS stage.	BEL
85	312	157.4	Ability of the system to add Invoice amount and Q-423 amount  What is Q-423?	Details pertaining to functional processes will be provided during the SRS stage.	BEL

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
86	387	237.7	What is SIMHA platform? What are its technical specifications / technology stack	SIMHA platform is the middleware platform being used for ICG intranet applications. Technology stack provided as Annexure-I to pre-bid replies.	BEL
87	387	237.1	Does this means that COTS ERP products available in market can't be used for this project	Solutions means COTS ERP solution, which should be readily deployable with or without configuration to suit the ICG requirement and does not involve development of solution from scratch. The proposed ERP product must be a COTS product with the maximum 30% customization and 70% ready framework. Also, COTS ERP must be user based licensing. As per RFP, bidder to provide COTS product. Platform independent means the proposed ERP should not be platform agnostic and can be deployed without restrictions.	BEL

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
88	392	244.2	<p>Support IAM from Oracle as part of ICG SIMHA.</p> <p>Does this implies that ERP should have Oracle as DB What is the version of Oracle? Does this mean that users or SIMHA need not separately login to ERP portal? Are the users and category of users of SIMHA same as ERP portal?</p>	<p>ICG organisation follows set of rules, policies and procedures in each and every transaction. Oracles mentioned here may be taken as indicative one as ICG is presently using Oracle middleware for most of its applications. However, ICG is open for any COTS ERP application and DB which must be able to customize in toto with rules, policies and procedures being followed in ICG. Bidder to provide the IAM solution and integrate with existing SIMHA architecture.</p>	BEL
89	392	244.4	<p>GRC should be implemented in the proposed ERP solution.</p> <p>Any particular clause to be included in GRC</p>	<p>Details of the clauses for GRC will be finalized post signing of contract</p>	BEL
90	434	2.2.3.3	<p>Oracle database administration</p> <p>Why Oracle training? Whether we need to use Oracle data base for ERP solution? What is the version of Oracle?</p>	<p>Data base administration training to be provided for the database which will be used in proposed ERP application. Also, ICG is utilizing SIMHA middleware which has Oracle database that is why training on Oracle is also required.</p>	BEL

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
91	500	<b>OFFLINE ERP MODULE FOR SHIPS, INTERNET</b> <b>Point 9</b>	with average Users of 50 Nos. each and internet zone  Whether licenses to be catered for this 5000 users only? How about number of land users for licensing price calculation	Pls refer ser. 1 on page 500 for total ERP license requirements.	BEL
92	503	<b>Appendix 'R', Point 12</b>	Agile based ERP OEM native Application Lifecycle Management (ALM).  ALM deployment is at On-site or at the Developers site? If at onsite, how many user license from user end to be catered? And what is the location?	ALM deployment to be done onsite. 10 ALM licenses for DC & DRDC location.	BEL
93	503	<b>Appendix 'R', Point 12</b>	JIRA should be deployed in ICG on-campus cloud  Jira for how many users?	50 users	BEL
94	72	39	In this Data Center arrangement, all/critical applications data will be replicated synchronously between main DC and NLDC, while replication between main DC and far DR will continue asynchronously. Depending on the situation BC/DR policy, in case of any failure/disaster at DC, such applications can either be instantaneously brought up from NLDC location without any significant lag and without any major data loss, or the far DR can be brought up for all the applications with data replication of remaining data from NLDC site.	Yes, ERP needs to set up in such a way that it can be brought up from both NLDS as well as DR. Details of % of compute and production, non-production environment will be discussed during design phase.	BEL

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			Kindly confirm if ERP needs to be set up in such a way that it can be brought up from both NLDC as well as DR if required. Please confirm the % of compute that should be set up at NLDC and DR as compared to production. Also, please confirm how many non production environments need to be set up and with how much compute relative to production they should have.		
95	500	2 and 9	2. ICG ships of about 150 Nos 9. Total ships are approx. 100 nos.  Point 2 talks about 150 ships while point 9 talks about 100 ships. Kindly confirm the number of ships.	Federated data base replication must support for 150 ships as a futuristic measure. However, Implementation of ERP application in present scope is for 100 ships only.	BEL
96	387	237.2	Solution should be implemented of "Responsive Web Design" and Web 3.0 compliant. All customized UI5/UX should be based on ICG SIMHA 'Unified Portal' web theme and design. Application's design should be user friendly and UI5 supported.  There are security challenges with Web 3.0. There are no standard guidelines for Web 3.0 from Govt. of India. Auditing blockchain in Web 3.0 has been a challenge. Kindly explain the use case of blockchain.	The bidder to comply to the conditions/ requirements at para 237.2 on page 387 of RFP.	BEL

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
97	388	237.23	<p>The solution should support distributed processing.</p> <p>Our understanding is that you wish to process some data in ERP running in offline mode in ships and rest at central ERP deployed in DC. Kindly confirm if our understanding of distributed processing is correct.</p>	The ERP will be running in the offline mode onboard ships when not connected with the network. Hence, all the data will be residing on the servers of the ship. When ship will connected with central server through network, it will be synched with the DC database.	BEL
98	388	237.27	<p>Application should have capability of Whitehall file system.</p> <p>ICG already has a document management system as mentioned in RFP Page 401 (Point 4). RFP has given specs of Document Management (in RFP Page 334 (Point 176). Is it expected to extend existing DMS with Whitehall filing or expect to have a new DMS with Whitehall filing capability.</p>	Bidder has to provide the DMS with the whilehall filling capability	BEL
99	390	240.4	<p>Software licensing and relevant hardware architecture should be compliant to enterprise multi-hypervisor including VMWare ESXi, Microsoft HyperV.</p> <p>Kindly allow ERP OEM to provide compatible OS and virtualization layer which is also license complaint at DC, DR, NLDC and ROBO servers for ERP. This would help limit the number of software licenses required and optimize the solution.</p>	The bidder to comply to the conditions/ requirements at para 240.4 on page 240.4 of RFP.	BEL

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
100	13	14 (b)	<p>The bidder agrees to provide existing NATO Stock Numbers of OEM of each item supplied under the contract as per part list.</p> <p>Please clarify what is meant by NATO Stock</p>	NATO stock number is a 13 digit numeric code used for identifying all the standardized material items of supply as they have been recognized by all member states of NATO.	BEL
101	3	4.Special features of RFP (b) Param ,Yatra	If the mentioned existing application are migrated and becomes part of the ERP scope there will be additional users and additional functional process. Details of the application are also mentioned in page 401. Request clarification.	Application will not be migrated; it will be integrated with the ERP solution. Para 240 on page 396 is relevant for the licensing requirement.	BEL
141	3		<p>4.Special features of RFP (b) Param ,Yatra</p> <p>If the mentioned existing application are migrated and becomes part of the ERP scope there will be additional users and additional functional process. Details of the application are also mentioned in page 401.Request clarification.</p>	Application will not be migrated; it will be integrated with the ERP solution. Para 240 on page 396 is relevant for the licensing requirement.	
102	270	111	<p>System should be able to allow Professional Directorates to add list of equipment to be fitted on a ship under construction.</p> <p>Request to clarify who are Professional Directorates</p>	Professional Directorates means Directorates of ICG at Coast Guard HQ, New Delhi.	BEL



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
103	300	144.5	Computer Aided Decision making  As CAD is not offered as part of COTS application it would be a third party application .Hence , it will not be part of offered application license line item. Hope our understanding is correct.	The requirement is Computer Aided Decision Making. Intention of this feature is easy decision making on the basis of the output from the ERP.	BEL
104	381	221	Units not connected on ICG Intranet  Request to explain in details on the units , their expected functionalities with offered ERP	Offline module of the ERP will be deployed on the afloat platforms of ICG i.e.. Ships. All functionalities of ERP will be applicable in the offline module.	BEL
105	381	222	Use of E-Cash Books  Request to explain the functionalities with ERP	E-cash book is replacement of CASH ACCOUNT BOOK currently being maintained for accounting. The details pertaining to this will be shared during the SRS phase.	BEL
106	384	226.6	Veteran  Please explain what is Veteran cell	Veteran cell is the nodal Directorate for retired ICG personnel. The cell extend facilities to retired personnel related to retirement benefits and facilities.	BEL
107	392	244.4 GRC	GRC should be implemented in the proposed ERP solution  Please explain the GRC functionality.	GRC stands for Governance, Risk, and Compliance, which has standard functionalities.	BEL

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
108	500	Detail BILL of material for ERP	<p>ERP Software Licenses</p> <p>In page 500 the breakup of license is heavy transaction users 250, light users are 600 which in total application users is 850 . But as per the point number 9 the number of ships will be 100 and per ships 50 users . So the ship users are already considered within the 850 numbers or they are in addition.</p>	Ship's users have already been considered within the stipulated licensing requirement.	BEL

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
109	4	4(b)	<p>Proposed ERP application should be able to interface with existing ICG applications deployed on ICG Middleware Platform (SIMHA) such as ASHA, PARAM, BRASS etc. for bi-directional data transfer without any licensing restrictions. Details of existing applications required...</p> <p>Is there any preference of OEM for ERP ? (example: Oracle Business Suite) What are the existing Business Processes of ERP? Do we need to consider the upgrade / migration efforts of existing ERP? What Single-Signon Solution is in place for existing SAP Portal and ERP? Can we propose SAP GRC solution for Access Controls and Process Controls to ERP? Do we need to consider Migration of Oracle fusion Middleware to SAP PI or any other Middleware? Is there a list of Self-services functions that are to be catered by ERP? Do we need to provision the CA certificate costs for the ERP separately? What are the RPO/RTO tolerance limits for the ERP system? Does the IDM software proposed needs to handle the users of Non-ERP systems as well ?</p>	(i) ERP OEM to be proposed by SI. (ii) Functional requirement provided in RFP. (iii) No Existing ERP. (iv) bidder is free to provide solution as per requirement.	RailTel

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
110	General	NA	<p>General</p> <p>In case of delay in DC built, can the ERP be deployed in existing DC setup of ICG? Will such deployment and testing qualify vendor for receipt of payment?</p>	The conditions / clauses mentioned at RFP are to be complied.	Deloitte
111	2 500, 501	Clause 2(b) : ERP Package SAFAL & Onsite Manpower support on AMC	<p>(c) The DCG project will be under 02 yrs warranty followed by 03 yrs AIAMC. (d) Onsite manpower support for 05 yrs.</p> <p>1) As per delivery milestone of RFP, ERP Package SAFAL should Go-Live by 24th month; so do AMC (i.e 3 years AIAMC) of ERP SAFAL will start after 24th month OR is it that the system will be under warranty of 2 years post Go-Live and then after 2 years warranty AIAMC of 3 years will start? Please clarify.</p> <p>2) Onsite manpower support for 05 years - Do we need to provide onsite manpower support for 5 years post ERP Go-Live (i.e post T0+ 24 months) ? Please clarify</p> <p>3) At which ICG location/place, the Onsite Manpower resources will be deployed?</p>	<p>(i). Warranty is applicable as per Appendix C on page 406 of RFP.</p> <p>(ii) Bidder to read Sl. (x) of para 4(d) on page 5 of RFP in conjunction with para 253,254 &amp; 255 of page 394 to 396 of RFP.</p> <p>(iii). In this regards, para 253 and 255 on page 394 to 396 of RFP is relevant.</p>	Deloitte

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
112	401	Annexure-II to Appendix 'A'	<p>Details of existing applications to be integrated to ERP Solutions</p> <p>1) We understand ICG will facilitate for getting the API's from the respective vendor of the existing applications for integration with ERP</p> <p>2) We also understand that the Bidder is not supposed to provide any kind of support to the existing applications.</p> <p>Please clarify</p>	<p>(i) API from the existing applications will be provisioned by ICG for integration with the ERP.</p> <p>(ii) Support to the existing application is beyond bidders scope.</p>	Deloitte
113	300	General Query	<p>Module - Air Inventory and Management system</p> <p>Do we have two different processes for Air inventory &amp; Management system and other logistic include warehousing requirement. RFP seems to indicate that Air Inventory and management system is kind of parallel system having its own depots / warehousing, planning, forecasting, accounting and so rest all functions. Is Air inventory and Management system kind of separate entity under ICG having its own business processes be it planning, forecasting or logistics.</p>	<p>Requisite functionality of module given in functional requirement ERP from page 266 to 386 of RFP. Detailed process will be discussed during SRS Stage.</p>	Deloitte

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
114	383	General Query	<p>Module - Human Resource Management</p> <p>Apparently, ICG has already implemented SAP HR modules so what more is expected from new ERP on human resource management. Or We need to consider integration of SAP HR System to ERP from accounting point of view.</p>	<p>ICG is not utilizing any HR modules of SAP. Hence, bidder has to provide the solution for SAFAL ERP - HR as per functional requirement projected on page 383-386.</p>	Deloitte
115	386	General Query	<p>Migration of HR Data</p> <p>Pl elaborate it further. Is it from SAP HR system to ERP.</p>		Deloitte
116	35	General Query	<p>Migration of HR Data</p> <p>Need high level clarification by items. Does it also mean Historical data migration and if yes then what data, period etc. for estimation. We recommend not to migrate historical data and go live as an open items as on go live date. We can use Historical data more for forecasting and planning as such.</p>	<p>Details pertaining to Data Migration will be provided during SRS stage. During SRS stage as per the design of modules decision will be taken on requisite table data migration.</p>	Deloitte

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
117	502	General Query	<p>Offline Solution -Study, design, development &amp; implementation of offline ERP software including logistics, financial and HR.</p> <p>At Page 336, on offline solution, ask is for limited functionalities (Ability of system to work on limited processes of issue, receipt and stock queries (reports) with limited data of last 15 days of few client PCs In a location when the communication is down. However at page 502, off-line solution to cover logistics, financials and HR. Pl clarify it for each of business processes to be designed configured, developed and deployed in offline solution.</p>	Bidder to provide the Offline ERP as mentioned at Sl. 9 of ERP BOM on Page 500 of RFP. Offline module specific processes will be provided during the SRS stage.	Deloitte
118	General	General	<p>General Query</p> <p>For Data Migration scope at SAFAL ERP , we propose Data extraction, Data cleansing, Data profiling and Data de-duplication should be primary responsibility of ICG. We expect ICG team to provide the data in the template provided by us while doing data migration.</p>	Details of data migration will be provided during the SRS stage.	Deloitte
119	General	General Query	<p>General Query</p> <p>How many Depots, Stores and warehouses are there in scope</p>	All ICG depots, store and warehouses are in scope of the project. Number of depots, store and ICG unit will be provided during SRS stage.	Deloitte

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
120	280	Equipment Maintenance System (EMS) sr. No. 125.6	System should be able to update Ship At Definition (SFD) with all relevant details Uke Model NO, Serial number and location In the ship.  Please elaborate on the Ship fit definition (SFD) Process with Approval	Details pertaining to functional process of ICG, locations and number of ICG stores, units will be provided during SRS stage.	Deloitte
121	281	125.19	System should be able to track the information related to back log orders, equipment replacement recommendations (ABER procedure to be done online for replacement of equipment).  Please elaborate ABER Procedure for the replacement of equipment which will be online		Deloitte
122	281	125.25	System should be able to maintain records/ reports of the running hours of the equipment Submitted online by the ships.  Do you have the 3rd party tool to maintain the running hours of the equipment submitted online by the ship?		Deloitte



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
123	384	Sr. NO 228 : Recruitment.	<p>228.1 Induct recruited Officers, Enrolled Personnel and Civilian Personnel.</p> <p>228.2 Integrate with ICG recruitment software- system.</p> <p>Does the scope for Recruitment include only integration with existing ICG Recruitment system to bring all hired personnel into the core HR system? What is the current Recruitment system?</p>		Deloitte
124	385	233	<p>Should provide required support for ICG veteran cell, Also enable the system to-Import the data from ERP to CG veteran web portal.</p> <p>Please elaborate on the support required from the new HCM system for ICG Veteran cell?</p>		Deloitte

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
125	385	234	<p>Various nominations for different types of benefits are required to be submitted by every individual on entry into the service and subsequently on change in marital status, family members. Various forms have been prescribed for different types of nominations and therefore the nominations are to be made strictly in the prescribed form.</p> <p>· The ERP should support submission of nomination forms and management of the database.</p> <p>Please specify count of nomination forms required to be created</p>		Deloitte
126	383	General Query	RFP does not mention about leave and attendance system. Does Time management needs to be scoped as part of the new HRM solution or will this be managed in separate system?		Deloitte
127	401	Annexure II	<p>Please confirm if any other integration to be scoped with HRM system beside the ones listed below:</p> <ol style="list-style-type: none"> <li>1.CG-YATRA</li> <li>2.PARAM</li> <li>3.ASHA</li> <li>4.DMS</li> <li>5.Identity and Access Management</li> </ol>	Integration of applications are required as per Annex.I to appendix A of RFP.	Deloitte

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
128	352	182	Major Subsystems What is existing or legacy system for financial management? To what extent initiation, processing and approval process for financial proposals are currently automated? Whether ICG is open for customized solution in this area?	The bidder to comply to the conditions/ requirements at para 182 on page 352 of RFP.	Deloitte
129	361	Sr. No. 196.6	Re-appropriations can be done In foreign currency. Fund re-appropriation in foreign currency- what is the purpose?	Requirement of functional requirement given in RFP will be discussed during SRS stage.	Deloitte
130	362	197	Supplementary Grant Grant received in how many currency?		Deloitte
131	370	207	Interfacing with Other system. Integration with ASP/GSP not mentioned, does it mean its manual process?	Query is not clear.	Deloitte
132	365		Is it separate Interface required for SAP-PS with Online Portal for stake holders for project?		Deloitte
133	365	202.14.4	Create budget In a spreadsheet or project management tools like Primavera, or MS Project and upload to the project management module. Primavera/ MS Projects are currently used? Explain at what level it is being utilized?	Bidder to provide project monitoring tools. Currently no tool is being utilised.	Deloitte

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
134	366	General Query - Project Management/ Project System	Please Elaborate the Online portal requirement for Project Management activities. Is it the tool is being used currently?		Deloitte
135	334	176.2	Ability of workflow based documentation - document, which needs approval (electronics authentications) before uploading to system, same to be moved as per pre-defined workflow.  Please Explain the function of Electronic Authentication and why is it required as a pre requisite before document upload?	Requirement of functional requirement given in RFP will be discussed during SRS stage.	Deloitte
136	335	176.9	Ability of system for document Collaboration - The proposed application should have standard capability to ensure collaboration of documents among users for viewing, commenting -purpose. The collaboration tool should also support document approval process based on CGASD (Goa) practices and have data security features.  Please Explain the Collaboration tool CGASD (Goa) requirement in DMS		Deloitte
137	General	General	General Query  Is there any Separate Content repository are being used to store documents?		Deloitte

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
138	401	Point 4	DMS-DR  Please Explain the requirement of DMS-DR application Interface with SAP DMS? Why is it required? We assume that we are expecting to have separate DMS for ERP and also to integrate with your current DMS-DR applications ?	Details of DMS-DR application given in Annx.I to appendix A. Bidder to provide workable solution as per RFP requirement.	Deloitte
139		General Query on DMS	What UI technologies used in the current portal	Technology stack of DMS-DR application given in Annx-I to appendix A.	Deloitte
140		General Query on DMS	What is count for applications running in current portal		Deloitte
141		General Query on DMS	Is document management got enabled in current portal		Deloitte
142		General Query on DMS	Any collaboration tools are used in the current portal		Deloitte
143		General Query on DMS	No of 3rd Party applications running in the current portal		Deloitte
144		General Query on DMS	any anonymous content got exposed to Internet		Deloitte
145	280	125.6	System should be able to update Ship At Definition (SFD) with all relevant details Uke Model NO, Serial number and location In the ship.  Please elaborate on the Ship fit definition (SFD) Process with Approval	Requirement of functional requirement given in RFP will be discussed during SRS stage.	Deloitte

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
146	281	125.19	<p>System should be able to track the information related to back log orders, equipment replacement recommendations (ABER procedure to be done online for replacement of equipment).</p> <p>Please elaborate ABER Procedure for the replacement of equipment which will be online</p>		Deloitte
147	282	125.31	<p>System should able to generate various returns/ report such as technical return, CGSMA returns etc.</p> <p>Need more inputs for the requirement of System should able to generate various returns/ report such as technical return, CGSMA returns etc.</p>		Deloitte
148	281	125.25	<p>System should be able to maintain records/ reports of the running hours of the equipment Submitted online by the ships.</p> <p>Do you have the 3rd party tool to maintain the running hours of the equipment submitted online by the ship?</p>		Deloitte

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
149	386	234	<p>Various nominations for different types of benefits are required to be submitted by every individual on entry into the service and subsequently on change in marital status, family members. Various forms have been prescribed for different types of nominations and therefore the nominations are to be made strictly in the prescribed form.</p> <p>· The ERP should support submission of nomination forms and management of nomination database.</p> <p>What will be the approx. count of nomination forms to be created</p>		Deloitte
150	343	General Query	Whether the search should be based on reports names or fieldnames?		Deloitte
151	343	General Query	List of third party tools where the output to be sent?		Deloitte
152	343	General Query	Are you expecting real time data reporting or just report availability?		Deloitte
153		General Query	Is there any visualization tool being used for reporting? Please share the details		Deloitte
154	339	General Query	What are the applications/Portals we need to integrate with?		Deloitte

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
155	340	179.18	<p>Ability of the solution to enable user to enjoy freedom of analysis anywhere with off-line mode for analysts on the go. Users can still continue analyzing or modifying the report layout right from their desktop with no network connection. Data synchronization is seamless so no manual updates are required</p> <p>What is the expectation of the analysis being done with off-line mode? (Is it expected that real time data set to be available for the analysis)</p>		Deloitte
156	340	179.19	<p>Ability of the solution to enable users to quickly see the data changes in reports after a refresh. Changes in the report (increases, decreases, addition, and deletion of data) are highlighted with different colors which are customizable.</p> <p>How many versions of the Data changes to be retained in the system?</p>		Deloitte
157	340	179.2	<p>Ability of the solution to enable users to combine data from Microsoft: Excel, CSV and txt files and incorporate data into a single report, which can then be shared with other users through the platform</p> <p>How many downstream interfaces to be integrated with? Details required?</p>		Deloitte



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
158	341	179.22	<p>The system should have the capability to key In notes to individual respective reports In the form of threaded messages for the purpose of discussion.</p> <p>What should be the length of key notes/threaded messages?</p>		Deloitte
159	340	179.37	<p>The business intelligence platform must support for multiple platforms to protect our Investment when the Implementation expands to other areas.</p> <p>What are the multiple platforms to be integrated with?</p>	Integration of applications are required as per Annx.I to appendix A of RFP.	Deloitte
160	340	179.38	<p>The business intelligence platform must be able to Integrate to existing CG web portal easily</p> <p>Details of existing CG portal/Which platform CG is built on?</p>	As per RFP bidder to provide business intelligence platform.	Deloitte
161	336	177.9	<p>Ability of the system to maintain Inspection reports and results sent by the vendors</p> <p>What does it mean by " results sent by the vendors", please elaborate. Does it mean the Certificate shared by the Vendor?</p>	Yes	Deloitte
162		General Query on Middleware	Kindly provide an architectural diagram mentioning the integrated peripheral systems	Details of middleware will be provided during the SRS stage.	Deloitte

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
163		General Query on Middleware	How many peripheral systems are currently integrated and what is the middleware used	Details of middleware will be provided during the SRS stage.	Deloitte
164		General Query on Middleware	What is the middleware considerations in the TO BE landscape. Are the plans of moving to the SAP cloud middleware (SAP Integration Suite)	Bidder has to comply RFP requirement. Bidder must provide a workable and latest solution as RFP requirement.	Deloitte
165		General Query on Middleware	What is number of integrations / Interfaces currently available in the landscape	Integration of applications are required as per Annx.I to appendix A of RFP.	Deloitte
166	268	109.5	System should be able to define custom fields In the planning table as template form for accounting for different figures in the demand and supply side like available stock, stock In transit, maintenance requirements, safety stock requirements, reserve requirements etc.  Please elaborate the functionality required in detail	Details pertaining to functional process of ICG, locations and number of ICG stores, units will be provided during SRS stage.	Deloitte

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
167	279	121	<p>For warehouse management, ICG may track quantity and value of all the materials, perform physical Inventory, and optimize warehouse resources.</p> <p>Employees should plan, enter, and document warehouse and internal stock movements by managing goods receipts, goods issues, storage, picking and packing, physical stock transfers, and transfer postings.</p> <p>How many stores and warehouses are there in scope? How many locations do you want to manage in SAP EWM (bin level tracking along with tracking of internal movements)</p>		Deloitte
168	280	123.8	<p>System should be able to generate the packing list &amp; Dispatch Note again"" demands from the units.</p> <p>Do you want to deploy the processes on RF scanners or use a paper based approach? Would it be a mix of both depending on locations? Is it required to group deliveries by trucks to organize picking/packing or for yard activities?</p>		Deloitte
169	355-360	Point 188,189,190,191 &192	<p>General Query</p> <p>Is it a Top Down and/or Bottom Up planning approach</p>		Deloitte

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
170	355-360	Point 188,189,190,191 &192	General Query  What are different Planning scenarios to be considered (Strategic Plans, AOP, Forecast)		Deloitte
171	355-360	Point 188,189,190,191 &192	General Query  Give examples of sensitivity analysis? Any new sensitivity analysis that needs to be built in proposed planning solution		Deloitte
172	355-360	Point 188,189,190,191 &192	General Query  Standard costing, Variance Analysis report requirement at what granular level? Scenarios for Mix, Price and Volume variances.		Deloitte
173	355-360	Point 188,189,190,191 &192	General Query  Is rolling forecasting exercise performed? If yes, what is the frequency? Is forecasts performed at the same granularity as that of budget		Deloitte
174	355-360	Point 188,189,190,191 &192	General Query  Is Inter-Division or Inter-Plant eliminations performed		Deloitte
175	355-360	Point 188,189,190,191 &192	General Query  Explain the process for estimation of manpower needs		Deloitte

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
176	355-360	Point 188,189,190,191 &192	General Query  At what granularity the manpower plans are generated? (Entity, Service line, Account, Project, skill level, competency, Category or employee id etc)		Deloitte
<b>Queries raised during pre-bid query meeting</b>					
177	General		Pls clarify whether ERP application is internet based or intranet based.	ERP application envisaged in DCG project is intranet based.	BEL
178	General		Will ICG provide documents of existing applications for integration in ERP application including technology stacks and protocols being used?	Requisite documents will be provided to the SI during SRS stage.	BEL

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
179	Page. 72	39	<p>In this Data Center arrangement, all/critical applications data will be replicated synchronously between main DC and NLDC, while replication between main DC and far DR will continue asynchronously. Depending on the situation BC/DR policy, in case of any failure/disaster at DC, such applications can either be instantaneously brought up from NLDC location without any significant lag and without any major data loss, or the far DR can be brought up for all the applications with data replication of remaining data from NLDC site.</p> <p>Kindly confirm if ERP needs to be set up in such a way that it can be brought up from both NLDC as well as DR if required. Please confirm the % of compute that should be set up at NLDC and DR as compared to production. Also, please confirm how many non production environments need to be set up and with how much compute relative to production they should have.</p>	Yes, ERP needs to set up in such a way that it can be brought up from both NLDS as well as DR. Details of % of compute and production, non-production environment will be discussed during design phase.	Sara Infoway
180	500	2 and 9	<p>2. ICG ships of about 150 Nos 9. Total ships are approx. 100 nos.</p> <p>Point 2 talks about 150 ships while point 9 talks about 100 ships. Kindly confirm the number of ships.</p>	Refers to SI No. 2 on page 500 which mentions about total ICG Ships around 150 Nos., additionally SI 9 talks about ERP offline module deployable ships approx 100 Nos.	Sara Infoway

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
181	387	237.2	<p>Solution should be implemented of "Responsive Web Design" and Web 3.0 compliant. All customized UI5/UX should be based on ICG SIMHA 'Unified Portal' web theme and design. Application's design should be user friendly and UI5 supported.</p> <p>There are security challenges with Web 3.0. There are no standard guidelines for Web 3.0 from Govt. of India. Auditing blockchain in Web 3.0 has been a challenge. Kindly explain the use case of blockchain or remove this clause.</p>	The bidder to comply to the conditions/ requirements at para 237.2 on page 387 of RFP.	Sara Infoway
182	388	237.23	<p>The solution should support distributed processing.</p> <p>Our understanding is that you wish to process some data in ERP running in offline mode in ships and rest at central ERP deployed in DC. Kindly confirm if our understanding of distributed processing is correct</p>	The ERP will be running in the offline mode onboard ships when not connected with the network. Hence, all the data will be residing on the servers of the ship. When ship will connected with central server through network, it will be synched with the DC database.	Sara Infoway
183	388	237.27	<p>Application should have capability of Whitehall file system.</p> <p>ICG already has a document management system as mentioned in RFP Page 401 (Point 4). You are also giving specs of Document Management (in RFP Page 334 (Point 176). Do you wish to extend existing DMS with Whitehall filing or you wish to have a</p>	Bidder to provide DMS with Whitehall filling system.	Sara Infoway

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
			new DMS with Whitehall filing capability.		
184	390	240.4	<p>Software licensing and relevant hardware architecture should be compliant to enterprise multi-hypervisor including VMWare ESXi, Microsoft Hyper-V.</p> <p>Kindly allow ERP OEM to provide compatible OS and virtualization layer which is also license complaint at DC, DR, NLDC and ROBO servers for ERP. This would help limit the number of software licenses required and optimize the solution.</p>	The bidder to comply to the conditions/ requirements at para 240.4 on page 390 of RFP.	Sara Infoway
185	392	243.3	<p>Should provide all development related documentations including wireframe, SRS, business use cases, use cases, traceability matrix, test plans, test reports, deployment plans, database ER diagrams and API specifications for EAI compliance.</p> <p>Kindly allow Product Lifecycle Management either through ERP or through plug ins.</p>	The bidder to comply to the conditions/ requirements at para 243.3 and 245.2 on page 392 of RFP.	Sara Infoway



Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
186	392	245.2	<p>ERP to be deployed with single-click automation to DC, DR and ZT-ROBO Units connected over MPLS/ VSAT links/ through tools, processes and procedures.</p> <p>Kindly allow ERP at DC, NLDC, DR and ROBO to be deployed either on container based architecture or VM based architecture with interactive deployed and ERP OEM recommended approach to release management.</p>		Sara Infoway
187	13	14 (b)	<p>The bidder agrees to provide existing NATO Stock Numbers of OEM of each item supplied under the contract as per part list.</p> <p>Please clarify what is meant by NATO Stock</p>	NATO stock number is a 13 digit numeric code used for identifying all the standardized material items of supply as they have been recognized by all member states of NATO.	Sara Infoway
188	3	4.Special features of RFP (b) Param ,Yatra	If the mentioned existing application are migrated and becomes part of the ERP scope there will be additional users and additional functional process. Details of the application are also mentioned in page 401.Request clarification.	Application will not be migrated, it will be integrated with the ERP solution. Para 240 on page 396 is relevant for the licensing requirement.	Sara Infoway
189	270	111	<p>System should be able to allow Professional Directorates to add list of equipment to be fitted on a ship under construction.</p> <p>Request to clarify who are Professional Directorates</p>	Professional Directorates means Directorates of ICG at Coast Guard HQ, New Delhi.	Sara Infoway

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
190	300	144.5	Computer Aided Decision making  As CAD is not offered as part of COTS application it would be a third party application .Hence , it will not be part of offered application license line items. Hope our understanding is correct.	The requirement is Computer Aided Decision Making. Intention of this feature is easy decision making on the basis of the output from the ERP.	Sara Infoway
191	381	221	Units not connected on ICG Intranet  Request to explain in details on the units , their expected functionalities with offerd ERP	Offline module of the ERP will be deployed on the afloat platforms of ICG i.e. Ships. All functionalities of ERP will be applicable in the offline module. Detailed processes of ERP modules will be discussed during SRS stage.	Sara Infoway
192	381	222	Use of E-Cash Books  Request to explain the functionalities with ERP	E-cash book is replacement of CASH ACCOUNT BOOK currently being maintained for accounting. The details pertaining to this will be shared during the SRS phase.	Sara Infoway
193	384	226.6	Veteran  Please explain what is Veteran cell	Veteran cell is the nodal Directorate for retired ICG personnel. The cell extend facilities to retired personnel related to retirement benefits and facilities.	Sara Infoway
194	392	244.4 GRC	GRC should be implemented in the proposed ERP solution  Please explain the GRC functionality.	GRC stands for Governance, Risk and Compliance, which has standard functionalities.	Sara Infoway

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
195	500	Detail BILL of material for ERP	ERP Software Licenses  In page 500 the breakup of license is heavy transaction users 250, light users are 600 which in total application users is 850 . But as per the point number 9 the number of ships will be 100 and per ships 50 users . So the ship users are already considered within the 850 numbers or they are in addition.	As per para 240 on page 390 and sl 1 on page 500 of RFP, bidder to provide the licenses as per RFP requirement.	Sara Infoway
196	490	ERP	Bidder must have implemented ERP solution for minimum 4000 ERP licenses.  We request to amend the clause as under: Bidder must have implemented ERP solution for minimum 1000 ERP licenses.	The bidder to comply to the conditions/ requirements at para 2(g) on page 490 of RFP.	Xtranet
197		4	4(b)  All the existing application of ICG to be reimplemented in ERP or just the bi-directional API will be the scope of this solution	The bidder to comply to the conditions/ requirements at para 4(b) on page 4 of RFP.	Avenir
198		4	4(b)  Is there also ERP solution for your offline ships (ROBO) or offline stations, or some other solution need to be provided for offline functionality of other applications and ERP solution	The bidder to comply to the conditions/ requirements at para 4(b) on page 4 of RFP.	Avenir

Ser	RFP reference	Content of RFP requiring clarification	Points of clarification / Query by Bidder	Response/ Clarification	Vendor
199	245.2	ERP to be deployed with single-click automation to DC, DR and ZT-ROBO Units connected over MPLS/ VSAT links/ through tools, processes and procedures.	<p>Kindly amend "ERP to be deployed to DC, DR and ZT-ROBO Units connected over MPLS/ VSAT links/ through tools, processes and procedures."</p> <p>Initial implementation is done through set process and procedure of ERP systems. Automation will help in day 2 operations and provisioning systems.</p>	Bidder to utilize the set process, tools and procedures for the deployment of ERP.	Ishaan

**NET WORK AND ROBO RELATED PRE-BID QUERIES AND REPLY**

<b>Ser</b>	<b>RFP reference</b>	<b>Content of RFP requiring clarification</b>	<b>Points for Clarification / Query by Bidder</b>	<b>Response/ Clarification</b>	<b>Vendor</b>
1.	Pg 252 /ROBO Technical Requirement / 95.42	IT Power : 3.5 kW	The IT Power mentioned seems to be on the higher side. Kindly review the same .	The IT load mentioned here is of ROBO racks catered for remote units and its usable IT load for the unit.	<b>TCIL</b>
2.	Pg 252 /ROBO Technical Requirement / 95.43	Usable rack Space maximum : 42U	We understand that height will be constraint in smaller ships. Request you pls accept customized height of the rack as per site requirement	As per Sl. 95.43 on page 252 of RFP, the maximum size of Rack is allowed 42U. However, considering the space constraint onboard ships bidder can provide 24U size rack for small ships and 36U size rack for the bigger ships.	<b>TCIL</b>
3.	Pg 252 /ROBO Technical Requirement / 95.44	Redundant separate raw power supply & distribution units within data rack: Yes	Kindly confirm whether two raw power input will be provided to the ROBO Rack?	As per RFP specifications, raw power will be provided by ICG. However, ROBO must be having two PDUs.	<b>TCIL</b>
4.	Pg 252 /ROBO Technical Requirement / 95.46	Redundant Condenser : Yes	Considering the space constraint in the smaller ships to mount the Condenser units, we request to you accept the Chilled water based rack mounted AC unit utilising the water inlet from the existing onboard chiller unit. Kindly approve chilled water based Design for Robo rack cooling .	The bidder to comply to the conditions/ requirements at para 95.46 on page 252 of RFP.	<b>TCIL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
5.	Pg 252 /ROBO Technical Requirement / 95.47	Condenser Location : External	Considering the space constraint in the smaller ships to mount the Condenser units, we request to you accept the Chilled water based rack mounted AC unit utilising the water inlet from the existing onboard chiller unit. Kindly approve chilled water based Design for Robo rack cooling .	The bidder to comply to the conditions/ requirements at para 95.47 on page 252 of RFP.	<b>TCIL</b>
6.	Pg 252 /ROBO Technical Requirement / 95.49	Variable Speed Scroll Compressor: Yes	Considering the space constraint in the smaller ships to mount the Condenser units, we request to you accept the Chilled water based rack mounted AC unit utilising the water inlet from the existing onboard chiller unit. Kindly approve chilled water based Design for Robo rack cooling .	The bidder to comply to the conditions/ requirements at para 95.49 on page 252 of RFP.	<b>TCIL</b>
7.	Pg 252 /ROBO Technical Requirement / 95.50	Anticorrosive Condenser coil for costal area environmental application : Yes	Considering the space constraint in the smaller ships to mount the Condenser units, we request to you accept the Chilled water based rack mounted AC unit utilising the water inlet from the existing onboard chiller unit. Kindly approve chilled water based Design for Robo rack cooling .	The bidder to comply to the conditions/ requirements at para 95.50 on page 252 of RFP.	<b>TCIL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
8.	Pg 252 /ROBO Technical Requirement / 95.51	UPS Location : Internal	UPS should be 2 U rack mountable 3kVA in N+N redundancy, with 15 min battery back with SMF / Li-ion batteries mounted inside the rack considering the integrated rack solution & space constraint.	UPS system must be internal fitted and have the capacity to provide power requirement of envisaged ROBO unit in redundancy as defined on page 252 of RFP.	<b>TCIL</b>
9.	Pg 252 /ROBO Technical Requirement / 95.52	UPS Battery Type : SMF		UPS to be offered in N+N redundancy as per IT load with 15 min back up per UPS	<b>TCIL</b>
10.	Pg 252 /ROBO Technical Requirement / 95.53	UPS Battery Location : External			<b>TCIL</b>
11.	Pg 252 /ROBO Technical Requirement / 95.54	Battery Backup, 90% load : 15 Min or more			<b>TCIL</b>
12.	Pg 252 /ROBO Technical Requirement / 95.55	UPS Redundancy : Yes			<b>TCIL</b>
13.	Pg 252 /ROBO Technical Requirement / 95.56	UPS Battery Redundancy : N+2			<b>TCIL</b>
14.	Pg 252 /ROBO Technical Requirement / 95.59	IP PDU(Vertical , Single Phase) : Yes	IP PDU(Vertical , Single Phase) with all outlet sockets must have locking capability to avoid accidental dislodging. Kindly accept as all ROBO rack installation will be on ship with high probability of accidental dislodging of input power cables .	The ROBO solution in offering including all components must be ruggedized enough to withstand rough and tough conditions onboard ships.	<b>TCIL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
15.	Pg 252 /ROBO Technical Requirement / 95.63	UPS battery health, capacity monitoring :Yes	We understand that battery status & back up time to be monitored. Kindly confirm or elaborate the mentioned clause.	It must be able to monitor vital parameters of battery like battery bank voltage, individual cell voltage, cell temperature, ambient temperature, current drawn by the load, % of remaining charge and backup time of battery and alert the user if any cell is weak or over charged.	<b>TCIL</b>
16.	Pg 253 /ROBO Technical Requirement / 95.69	Support for SNMP, MQTT Protocols : Yes	Kindly accept : Support for SNMP/ MQTT Protocols	The bidder to comply to the conditions/ requirements at para 95.69 on page 253 of RFP.	<b>TCIL</b>
17.	Pg 253 /ROBO Technical Requirement / 95.72	Support offline monitoring data, log store & forward for Ships and ROBO : Preferred	Kindly remove	It is a preferred features of ROBOs not mandatory requirement.	<b>TCIL</b>
18.	Pg 253 /ROBO Technical Requirement / 95.78	Local store and forward of event logs, monitoring data for WAN bandwidth optimization	Kindly remove as local monitoring unit will have limited storage for the event logs	ROBO must be able to store events log locally and able to forward the logs when connected with network.	<b>TCIL</b>



Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
19.	Pg 253 /ROBO Technical Requirement / 95.83	Minimum of 04 out of 05 ROBO components of data rack including, Ventilation/ Cooling, UPS, IP-PDU, integrated Data Rack enclosure and centralized monitoring software similar to DCIM should be of same single OEM to have seamless integration and management support	Kindly amend as : All critical components of ROBO Racks like Racks with PDU, UPS, Air Conditioning and Remote Monitoring solution should be from same and single OEM for seamless integration and better after sales service support.	Considering the criticality of the ROBO facility, to achieve the high availability, seamless integration & on time service support, it is mandatory that all major critical components for the ROBO must be from same & Single OEM. The same clause will be applicable to DC, DR and NLDC datacenters/Non-IT Infrastructure.  Four Major Critical components of ROBO Racks mentioned at Sl. 95.83 on page 253 of RFP.	<b>TCIL</b>
20.	Page #256 /Section #101.4	Last Mile path should be in Under Ground fiber (minimum required depth of 1.8 mtr) for Class-'S' and 'A', and protection path should also be fiber. Both Main & Protection path to provide equal band widths.	If last mile path is not feasible on UG path, can we explore OH Feasibility.	The bidder to comply to the conditions/ requirements at para 101.4 and 103 on page 256 and 257 of RFP.	<b>TCL</b>
21.	Page# 256 /Section# 101.4	Last Mile path should be in Under Ground fiber (minimum required depth of 1.8 mtr) for Class-'S' and 'A', and protection path should also be fiber. Both Main & Protection path to provide equal bad widths.	If Wireline feasibility isn't available, can we explore Wireless RF feasibility option		<b>TCL</b>
22.	Page# 257/ Section# 103	List of CG stations & Designed BW(Class A)	Can we deliver Primary Link as OHF if UG isn't available as asked to only deliver Primary link on UG		<b>TCL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
23.	Page # 255	Technical Specifications: Network Connectivity & Components	Please Clarify on SLA Parameters & Penalty clauses	SLA parameters and penalty clauses area already defined at para 1.8 and 1.9 of Annexure I to Appendix F of the RFP at	<b>TCL</b>
24.	Page 256/Section# 101.4	Last Mile path should be in Under Ground fiber (minimum required depth of 1.8 mtr) for Class-'S' and 'A', and protection path should also be fiber. Both Main & Protection path to provide equal bad widths.	If Sites are feasible on RF/Wireless, what would be the Pole/Mast height restrictions	The bidder to comply to the conditions/ requirements at para 101.4 on page 256 of RFP.	<b>TCL</b>
25.	Page 256/Section# 101.4	Last Mile path should be in Under Ground fiber (minimum required depth of 1.8 mtr) for Class-'S' and 'A', and protection path should also be fiber. Both Main & Protection path to provide equal bad widths.	Installation/Feasibility Permissions would be under customer's Scope	Permission should be obtained by SI. Documents/ certificate, if required, will be provided by ICG.	<b>TCL</b>
26.	Page# 257/Section# 103	List of CG stations & Designed Bandwidth	Required full addresses with Pin code, Lat Long & Local Contact details to check Feasibility for the all the locations.	Location address with pincode and contact details attached as Annexure-II to pre-bid clarifications	<b>TCL</b>
27.	Page#255/Section#101.2	Mpls link from any of the two different service providers for high availability.	Is customer here referring to two service provider(Cloud)or it is two different last mile provides by single provider. MPLS circuit would be managed or unmanaged.	MPLS links should be from two different service providers and it should be manageable and in high availability.	<b>TCL</b>
28.	Page# 256/ Section #101.5	Last mile should have main and protection both for the locations.	Need clarity whether customer is asking for ring protected path on access layer.	Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	<b>TCL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
29.	Page# 256/ Section #101.13	Every Remote location will have local LAN connected on basic L3 Switches.	Basic L3 Switch	Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	<b>TCL</b>
30.	Page# 256/ Section #102.5	Data Closet, power of Minimum 2kW at all ROBO sites	Robo sites - need more clarity on Robo sites	ROBOs will be deployed onboard 88 in nos ICG ships. Details of ship's locations will be shared with L1 bidder post selection.	<b>TCL</b>
31.	Page# 257/ Section #102.6	Software Defined WAN to provide Virtual routing, link Load Balancing, WAN optimization in HA	WAN bandwidth optimization- in context to which critical application	SAFAL ERP	<b>TCL</b>
32.	Page# 257/Section# 102.9- Note II	All the network hardware of router , without etc should be designed to meet Scalability of at least 4 times of present bandwidth requirement for each site.	NGFW Licensing and hardware sizing to be consider (4 times) from day 1 or not.	Bidder to provision the hardware such as router, switches, and UTM etc capable of four times scalability from the day 1. Licensing is not required to cater for scalability.	<b>TCL</b>
33.	Page# 258/Section# 101.11	Traffic optimization, resiliency and scalable.	Is customer referring for TCP level optimization or bandwidth optimization. what are the use cases with repact to optimization scenarios. Additionally do bidder needs to consider separate WAN optimization in this solution apart from SDWAN solution.	As per the RFP specifications. Optimization will be carried out by SDWAN solution only. However, Licensing is not required to cater for scalability.	<b>TCL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
34.	Page # 18/Section 30.1.3	Establish a pan ICG MPLS/VSAT Wide Area Network providing connectivity to 109 nodes (2010 links) of ICG (including jetties) and PCDA/CDAs and associated links activation & ground hub/stations, as required. Each site is to be connected with two redundant lines sourced from two different service providers. The System Integrator has to pay the bandwidth charges pertaining to the links for one year.	Each site is to be connected from different MPLS cloud providers or single provider can extend the connectivity using different LM. Please clarify.	Each site should be provisioned with MPLS/VSAT connectivity from two different service provider.	<b>TCL</b>
35.	Page # 100/Section#54.8	The Solution should provide inbuilt L2VPN and L3VPN	Requirement is for L2VPN OR L3VPN. Please confirm	As per RFP conditions. Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	<b>TCL</b>
36.	Page #139/Section #68.19	The Router should support Bidirectional forwarding detection (BFD).	Any specific timer for BFD	As per RFP conditions. Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	<b>TCL</b>
37.	Page #257/Section#103	List of CG Stations & Designed Bandwidth	Primary & secondary will terminate on separate routers, please confirm.	Initially primary and secondary link will terminate on their respective service provider's router and then terminate on SDWAN in HA.	<b>TCL</b>
38.	Page # 426/ Section # 1.9.7	Connectivity with SWAN availability	Connectivity availability is per site or per link . Please confirm.	Connectivity availability is per link	<b>TCL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
39.	Page # 2 2. Broad Description of Equipment/System. (a) Core IT Infra	(iii) Wide Area Network providing connectivity to 109 nodes (210 links) of ICG and PCDA's/ CDAs. Each site is to be connected with two redundant lines sourced from two different service providers. One-year bandwidth charges to be paid by System Integrator	1. 109 nodes/sites having redundant links is the requirement ie. 218 links required (109x2=218), whereas 210 links is mentioned against these 109 sites. 2. How the WAN BW i.e. 32Mbps for CGWAN units and 1Gbps for DC is derived. 3. Which WAN Topology is required - Hub-Spoke, Star or Mesh Topology 3. List of 109 nodes / locations with complete postal addresses	(i) Details of nodes / sites provided on para 103 on page 257-265 and para 104 on 265 of RFP. (ii) Bidder has to comply with RFP clause. (iii) As per MPLS services provider. (iv). Address and contact details of ICG sites attached as Annexure-II	HPE
40.	95.2, C44-ROBO Servers, Page 253	Ruggedized Hyper Converged Appliance	As ICG is looking for racks providing rugged capability, individual component need not to be rugged. Request you to please modify clause as - "Ruggedized Hyper Converged Solution"	As per para 95 on page 250, ICG is looking for ruggedized hyper converged components as part of ROBO solution.	HPE
41.	95.5, C44-ROBO Servers, Page 253	Quorum Node	As ICG is deploying 3 node HCI solution, additional quorum node is not required. Request to delete this clause	Required specification is given on para 95 on page 250, Bidder can propose a workable solution as per the required specifications.	HPE
42.	95.6, C44-ROBO Servers, Page 253	Min. Core per Processor	As ICG intent to procure all latest generation technology, request to modify clause as - "Min. Core per Processor. Processor should be of latest generation by CPU OEM"	Quoted specification is minimum requirement. Bidder to propose latest specification to meet RFP requirements.	HPE
43.	95.25, C44-ROBO Servers, Page 253	Rugged Enclosure, MIL Grade	We understand by "rugged enclosure", ICG is referring to rugged rack enclosure of 42U and not applicable to component being	As per para 95 on page 250, ICG is looking for ruggedized hyper converged components as part of ROBO solution.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
			placed on rugged rack. Kindly confirm.		
44.	95.28, C44-ROBO Servers, Page 254	HCA OEM inter-operability certification for Server, Storage, Network components	Interoperability matrix is published by HCI software OEM. Request to modify clause as "HCI Software OEM inter-operability certification for Server, Storage, Network components"	Inter operability certification to be provided as per industry standard.	HPE
45.	97. OEM Qualification requirements., Page 394	Data Centre, DR Data Centre and Zero-Touch ROBO OEM components of Hardware, Hyper-Converged Appliances for ROBO, Virtual NGFW, Backup software, SDDC software, SD-WAN should have been mentioned in latest Gartner Magic Quadrant/ Forrester Wave Reports in respective product category.	Gartner publishes Magic quadrant report under title of Hyper-Converged Infrastructure (HCI) not Hyper converged appliance (HCA) as mentioned in the clause. We understand by mentioning HCA in RFP, ICG meant HCI. Kindly confirm	Affirmative	HPE
46.	C44. ROBO Server - 95.15 / 251	SRST support for IPPBX	<b>This is OEM specific, kindly remove the clause to allow wider participation,</b> different OEM support Auto VLAN configuration for voice RADIUS VLAN uses a standard RADIUS attribute and LLDP-MED to automatically configure a VLAN for IP phones.	ICG is having IP telephony service with PAN ICG connectivity. SRST kind off capability is sought for continuation of existing infrastructure, bidder to provide the workable solution for the integration of the same.	HPE
47.	C44. ROBO Server - 95.16 / 251	SRST in-built/ external	<b>This is OEM specific, kindly remove the clause to allow wider participation,</b> Many OEM's Switch Support Auto VLAN configuration for voice RADIUS VLAN uses a standard RADIUS attribute and LLDP-MED to automatically configure a VLAN for IP phones.		HPE

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
48.	C44. ROBO Server - 95.19 / 251	Link Load Balancer, Virtual	<b>Request for clarity.</b> As VARIOUS OEMS Switch support LACP. Here we are assuming Link Load Balancer means two interfaces would be in a LACP/aggregation, by using virtual chassis/stack. Switch support LACP & Stacking of two or more switches by using VSF.	Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	HPE
49.	C44. ROBO Server - 95.20 / 251	WAN Link Optimiser	<b>Request to remove this clause from Switch.</b> As this is not relevant to Switch. Must require router or SD-WAN kind of solution which support WAN optimization	Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	HPE
50.	C44. ROBO Server - 95.21 / 251	WAN bandwidth monitoring	<b>Request to remove this clause from Switch.</b> As this is not relevant to switch. Need some WAN device or NMS system like MRTG and PRTG.	Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	HPE
51.	C44. ROBO Server - 95.24 / 251	Support for security features of IEEE 802.1ae 256-bits encryption, TACACS, RADIUS, 802.1x, RADIUS Change of Authorization, Dynamic VLAN, IPv6 Snooping, IPv6 RA Guard, IPv6 DHCP Guard, IPv6 Neighbour Discovery Inspection and IPv6 Source Guard	Differenet OEM's Support equivalent Protocalls , Request to read/modify the clause as -- "Support for security features of IEEE 802.1ae-MACSec, TACACS, RADIUS, 802.1x, RADIUS Change of Authorization, Dynamic VLAN, IPv6 Snooping or DHCPv6 snooping, IPv6 RA Guard, IPv6 DHCP Guard, IPv6 Neighbor Discovery Inspection or ND snooping and IPv6 Source Guard or Dynamic IPv6 Lockdown."	Bidder to comply to RFP requirments. Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
52.	143/ 70.13	WAN bandwidth of 8 Mbps at ROBO site and 40 Mbps at Central Data Center site	Kindly amend "WAN bandwidth of 32 Mbps at ROBO site and 1000 Mbps at Central Data Center site"  The given clause is not aligned to the bandwidth details requirement at each site.	Bidder to bid as per para 103 of appendix A of RFP on page 257.	HPE
53.	265/ 103	NW Connectivity & Components	Please clarify the number of sites along with the number of links at each site with Bandwidth ( row with link L-191 to L-202). 1. What is ICG IDC location 2. what are Inter-MPLS Links 3 .What is IDC-DC link 4. Is there a separate Internet and MPLS link terminating at Near Line DR.  Need clarification	1. ICG IDC location at - Mahipalpur, Delhi. 2. MPLS links details placed at para 103 of appendix A of RFP on page 257. 3. IDC - DC link is the link between Interim Data Centre at CGHQ and the Upcoming Data Centre at Mahipalpur, Delhi. 4. ICG has asked for only MPLS links at all places. No internet link is required.	HPE
54.	252/ 95.29	OEM certified Inter-operability with existing Central Cloud Management Software VMware vCenter, vROPs(Required licenses be provisioned)	Please clarify the software/ licenses required with ROBO servers  Request clarification	Licenses required for HCI at ROBO to work including server and storage virtualization, virtualization management and its monitoring to be provisioned.	HPE
55.	240/ 91	C40-Software Defined Data Center (SDDC) for DC, DR & ROBO sites	It seems like a typo. For ROBO as per bill of material compliance table C44 will be applicable. Please correct the heading as "C40-Software Defined Data Center (SDDC) for DC, DR"	For ROBO compliance table C44 on page 250 of RFP is applicable	HPE



Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
			It seems like a typo error. Kindly remove		
56.	256/ 103	List of CG stations and designed bandwidth	<p>Please clarify : 1. Location of Near Line DR 2. Are there separate MPLS link terminating at Nearline DR or it is LAN extension of DC 2. Is there separate Internet link terminating at NLDR</p> <p>Request clarification</p>	<p>1. Near Line DC - Noida/NCR 2. Separate MPLS link will be required for the NLDC. 3. Provisioning of termination of internet link at NLDC is required. However, providing of internet bandwidth is not in the scope of bidder.</p>	<b>HPE</b>
57.	256/ 103	List of CG stations and designed bandwidth	<p>Please clarify How ship will connect to Jetty SDWAN device and what hardware will be used, will there be device like L3 switch will be available for the same.</p> <p>Request clarification</p>	<p>Para 98 of Appendix - A on page 255 is relevant. Bidder has to provide a workable solution for connecting the ship with the DC considering multiple ships (upto 8 ship at a time) at Jetty.</p>	<b>HPE</b>
58.	256/ 103	List of CG stations and designed bandwidth	<p>Please clarify how the users at remote sites will connect to MPLS network/ SDWAN. We understand that LAN setup/ switches are already available at these remote sites. Please confirm</p> <p>Request clarification</p>	<p>Para 98 of Appendix - A on page 255 is relevant.</p>	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
59.	95.2	Ruggedized Hyper Converged Appliance	<p>Factory Pre-Configured Ruggedized Hyper Converged Appliance managed and supported by single patch for entire Appliance.</p> <p>Since you are requesting for Ruggedized Hyper Converged Appliance, it comes factory configured with single patch for entire appliance with single support call for entire hardware and software for the supplied appliance.</p>	Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	HPE
60.	95.4	Compute Nodes	<p>Ruggedized HCI Appliance with Enterprise Hypervisor Licenses.</p> <p>Since you are requesting for HCI Appliance, there is no separate compute nodes required. Three HCI Ruggedized nodes will be coming and native SDS will take care for all the data protection.</p>	The bidder to comply to the conditions/ requirements at para 95.4 on page 250 of RFP.	HPE
61.	95.5	Quorum Node	<p>To be Removed</p> <p>Since you are requesting for Three HCI Appliance, there is no separate Quorum nodes required. Three HCI Ruggedized nodes will be coming and native SDS will take care for all the data protection.</p>	Required specification is given on para 95 on page 250, Bidder can propose a workable solution as per the required specifications.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
62.	95.8	Min. RAM per Node excluding overhead memory for HCA, Virtualisation, Network etc.	1TB or more  Please clarify if 1 TB RAM is required across the cluster or it is required per Node.	The RAM requirement is per node.	<b>HPE</b>
63.	95.12	Storage Available Capacity, 2RF	Storage Available Capacity, 2RF 4TB or more with required SDS Licenses  Please clarify if 4 TB usable capacity to be provided after considering RF=2,FTT=1.	Affirmative	<b>HPE</b>
64.	95.14	L3 Switch, SDN Ready	Dual 12-Port x 10 Gb TOR Switch, SDN Ready  Since HCI required, two TOR Switches, we would request if you could clarify if 12 Port switch shall be factored with HCI.	Affirmative	<b>HPE</b>
65.	95.15	SRST Support for IPPBX	To be Removed  We would request you to remove this clause as TOR switch used for HCI does not require this functionality.	ICG is having IP telephony service with PAN ICG connectivity. SRST kind off capability is sought for continuation of existing infrastructure, bidder to provide the workable solution for the integration of the same.	<b>HPE</b>
66.	95.16	SRST in-built/external	To be Removed  We would request you to remove this clause as TOR switch used for HCI does not require this functionality.		<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
67.	95.17	Min. Switch Speed	Min. 4 x 10 Gbps port per HCA to be provided  We request to amend this clause to specify the port required on HCA.	Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	HPE
68.	95.19	Link Load Balancer, Virtual	To be Removed  We would request you to remove this clause as TOR switch used for HCI does not require this functionality.	Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	HPE
69.	95.2	WAN Link Optimiser	To be Removed  We would request you to remove this clause as TOR switch used for HCI does not require this functionality.	Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	HPE
70.	95.21	WAN Bandwidth Monitoring	To be Removed  We would request you to remove this clause as TOR switch used for HCI does not require this functionality.	Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	HPE
71.	95.23	Support for OSPF, VRRP, 1588v2, SNMPv3	To be Removed  We would request you to remove this clause as TOR switch used for HCI does not require this functionality.	Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
72.	95.24	Support for security features of IEEE 802.1ae 256 bit encryption, TACACS, RADIUS, 802.1x, Radius change of Authorisation , Dynamic VLAN, IPv6 Snooping, IPv6 Guard, IPv6 DHCPGuard, IPv6 Neighbour Discovery Inspection and IPv6 Source Guard.	Support for security features TACACS, RADIUS, 802.1x, Radius change of Authorisation , Dynamic VLAN, IPv6 Snooping, IPv6 Guard, IPv6 DHCPGuard, IPv6 Neighbour Discovery Inspection and IPv6 Source Guard.  Would request to amend this clause for wider participation as we do not support IEEE 802.1AE 256 Bit Encryption.	Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	HPE
73.	95.25	Rugged Enclosure, MIL Grade	To be Removed  Since Smart Rack has been asked in the tender for ROBO Locations, we request you to reconsider this clause if you require.	Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	HPE
74.	95.26	Marine Grade Installation	Ruggedized HCI Appliance should be certified with MIL-STD-810G certification which should be designed to run under harsh conditions ie. extreme shock, vibration, dust, humidity etc.  Would request you to amend this clause with the required MIL-STD-810G certification which is required for running the solution in Harsh Conditions.	Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
75.	Pg 252 /ROBO Technical Requirement / 95.42	IT Power : 3.5 kW	The IT Power mentioned seems to be on the higher side . Kindly review the same .	The IT load mentioned here is of ROBO racks catered for remote units and its usable IT load for the unit.	HPE
76.	Pg 252 /ROBO Technical Requirement / 95.43	Usable rack Space maximum : 42U	We understand that height will be constraint in smaller ships. Request you pls accept customised height of the rack as per site requirement	As per Sl. 95.43 on page 252 of RFP, the maximum size of Rack is allowed 42U. However, considering the space constraint onboard ships bidder can provide 24U size rack for small ships and 36U size rack for the bigger ships.	HPE
77.	Pg 252 /ROBO Technical Requirement / 95.44	Redundant separate raw power supply & distribution units within data rack: Yes	Kindly confirm whether two raw power input will be provided to the ROBO Rack?	As per RFP specifications, raw power will be provided by ICG. However, ROBO must be having two PDUs.	HPE
78.	Pg 252 /ROBO Technical Requirement / 95.46	Redundant Condenser : Yes	Considering the space constraint in the smaller ships to mount the Condenser units, we request to you accept the Chilled water based rack mounted AC unit utilizing the water inlet from the existing onboard chiller unit. Kindly approve chilled water based Design for Robo rack cooling .	The bidder to comply to the conditions/ requirements at para 95.46 on page 252 of RFP.	HPE
79.	Pg 252 /ROBO Technical Requirement / 95.47	Condenser Location : External	Considering the space constraint in the smaller ships to mount the Condenser units , we request to you accept the Chilled water based rack mounted AC unit utilising the water inlet from the existing onboard chiller unit. Kindly approve chilled water based Design for Robo rack cooling .	The bidder to comply to the conditions/ requirements at para 95.47 on page 252 of RFP.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor	
80.	Pg 252 /ROBO Technical Requirement / 95.49	Variable Speed Scroll Compressor: Yes	Considering the space constraint in the smaller ships to mount the Condenser units , we request to you accept the Chilled water based rack mounted AC unit utilising the water inlet from the existing onboard chiller unit. Kindly approve chilled water based Design for Robo rack cooling .	The bidder to comply to the conditions/ requirements at para 95.49 on page 252 of RFP.	<b>HPE</b>	
81.	Pg 252 /ROBO Technical Requirement / 95.50	Anticorrosive Condenser coil for costal area environmental application : Yes	Considering the space constraint in the smaller ships to mount the Condenser units , we request to you accept the Chilled water based rack mounted AC unit utilising the water inlet from the existing onboard chiller unit. Kindly approve chilled water based Design for Robo rack cooling .	The bidder to comply to the conditions/ requirements at para 95.50 on page 252 of RFP.	<b>HPE</b>	
82.	Pg 252 /ROBO Technical Requirement / 95.51	UPS Location : Internal	UPS should be 2 U rack mountable 3kVA in N+N redundancy, with 15 min battery back with SMF / Li-ion batteries mounted inside the rack considering the integrated rack solution & space constraint.	UPS system must be internal fitted and have the capacity to provide power requirement of envisaged ROBO unit in redundancy as defined on page 252 of RFP.	<b>HPE</b>	
83.	Pg 252 /ROBO Technical Requirement / 95.52	UPS Battery Type : SMF			UPS to be offered in N+N redundancy as per IT load with 15 min back up per UPS	<b>HPE</b>
84.	Pg 252 /ROBO Technical Requirement / 95.53	UPS Battery Location : External				<b>HPE</b>
85.	Pg 252 /ROBO Technical Requirement / 95.54	Battery Backup, 90% load : 15 Min or more				<b>HPE</b>
86.	Pg 252 /ROBO Technical Requirement / 95.55	UPS Redundancy : Yes				<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
87.	Pg 252 /ROBO Technical Requirement / 95.56	UPS Battery Redundancy : N+2			<b>HPE</b>
88.	Pg 252 /ROBO Technical Requirement / 95.59	IP PDU(Vertical , Single Phase) : Yes	IP PDU (Vertical , Single Phase) with all outlet sockets must have locking capability to avoid accidental dislodging. Kindly accept as all ROBO rack installation will be on ship with high probability of accidental dislodging of input power cables .	The ROBO solution in offering including all components must be Ruggedized enough to withstand rough and tough conditions onboard ships.	<b>HPE</b>
89.	Pg 252 /ROBO Technical Requirement / 95.63	UPS battery health, capacity monitoring :Yes	We understand that battery status & back up time to be monitored. Kindly confirm or elaborate the mentioned clause .	It must be able to monitor vital parameters of battery like battery bank voltage, individual cell voltage, cell temperature, ambient temperature, current drawn by the load, % of remaining charge and backup time of battery and alert the user if any cell is weak or over charged.	<b>HPE</b>
90.	Pg 253 /ROBO Technical Requirement / 95.69	Support for SNMP, MQTT Protocols : Yes	Kindly accept : Support for SNMP/ MQTT Protocols	The bidder to comply to the conditions/ requirements at para 95.69 on page 253 of RFP.	<b>HPE</b>
91.	Pg 253 /ROBO Technical Requirement / 95.72	Support offline monitoring data, log store & forward for Ships and ROBO : Preferred	Kindly remove	It is a preferred features of ROBOs not mandatory requirement.	<b>HPE</b>
92.	Pg 253 /ROBO Technical Requirement / 95.78	Local store and forward of event logs, monitoring data for WAN bandwidth optimisation	Kindly remove as local monitoring unit will have limited storage for the event logs	ROBO must be able to store events log locally and able to forward the logs when connected with network.	<b>HPE</b>



Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
93.	Pg 253 /ROBO Technical Requirement / 95.83	Minimum of 04 out of 05 ROBO components of data rack including, Ventilation/ Cooling, UPS, IP-PDU, integrated Data Rack enclosure and centralised monitoring software similar to DCIM should be of same single OEM to have seamless integration and management support	Kindly amend as : All critical components of ROBO Racks like Racks with PDU, UPS, Air Conditioning and Remote Monitoring solution should be from same and single OEM for seamless integration and better after sales service support.	<p>Considering the criticality of the ROBO facility, to achieve the high availability, seamless integration &amp; on time service support, it is mandetory that all major critical components for the ROBO must be from same &amp; Single OEM. The same calsue will be applicable to DC, DR and NLDC datacenters/Non-IT Infrastructure.</p> <p>Four Major Critical components of ROBO Racks mentioned at Sl. 95.83 on page 253 of RFP.</p>	<b>HPE</b>
94.	Pg 254 /OEM Qualification Requirements/ 97	OEM Qualification requirements. Data Centre, DR Data Centre and Zero-Touch ROBO OEM components of Hardware, Hyper-Converged Appliances for ROBO, Virtual NGFW, Backup software, SDDC software, SD-WAN should have been mentioned in latest Gartner Magic Quadrant/ Forrester Wave Reports in respective product category.	Kindly Amend As : OEM Qualification requirements. Data Centre, DR Data Centre and Zero-Touch ROBO OEM components of Hardware, Hyper-Converged Appliances for ROBO, Virtual NGFW, Backup software, SDDC software, SD-WAN should have been mentioned in latest Gartner Magic Quadrant/Gartner MMDC Research Report / Forrester Wave Reports in respective product category.	<p>Para 97 on page 254 of RFP may be read as</p> <p>for "SDWAN" read "WAN SWITCH"</p> <p>and</p> <p>'Data Center..... Gartner Magic Quadrant/ Forrester Wave Reports or relevant Indian certifications/ report such as TEC/ TSEC, STQC, BIS or their accredited lab reports in respective product category'.</p>	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
95.	253/ 96.3	Project specific OEM MAF Certificate to System Integrator	It is not clear if the MAF is asked from ROBO project OEMs only or from all OEMs. Please ask for MAF from all of the participating OEMs for clarity.	As per RFP, Bidder should be authorized by their OEM partners for the all the items in Bill of Material. MAF to be submitted for the same	HPE
96.	Page no.2	(iii) Establishment of pan ICG MPLS/ VSAT Wide Area Network providing connectivity to 109 nodes (210 links) of ICG and PCDAs/ CDAs. Each site is to be connected with two redundant lines sourced from two different service providers. One-year bandwidth charges to be paid by System Integrator.	The requirement is of establishing redundant connectivity to 109 nodes of ICG, whereas links mentioned are 210 , please confirm the number of links required for redundant connectivity.	Refer to Para 103 on page 257 and 104 on page 265, the Class C sites (Qty-08 Nos) are connected with VSAT links without redundancy. Hence total redundancy required sites i.e, MPLS sites are 101 only.	Mahindra Defence
97.	70.13,143	WAN bandwidth of 8 Mbps at ROBO site and 40 Mbps at Central Data Centre site	Kindly amend "WAN bandwidth of 32 Mbps at ROBO site and 1000 Mbps at Central Data Centre site" [The given clause is not aligned to the bandwidth details requirement at each site].	Bidder has to bid as per para 103 of appendix A of RFP on page 257.	Mahindra Defence
98.	103,265	NW Connectivity & Components	Please clarify the number of sites along with the number of links at each site with Bandwidth (row with link L-191 to L-202). 1. What is ICG IDC location 2. what are Inter-MPLS Links 3 .What is IDC-DC link 4. Is there a separate Internet and MPLS link terminating at Near Line DR	1. ICG IDC location at - Mahipalpur, Delhi. 2. MPLS links details placed at para 103 of appendix A of RFP on page 257. 3. IDC - DC link is the link between Intrin Data Centre at CGHQ and the Upcoming Data Centre at Mahipalpur, Delhi. 4. ICG has asked for only MPLS links at all places. No internet link is require.	Mahindra Defence

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
99.	95.29,252	OEM certified Inter-operability with existing Central Cloud Management Software VMware vCenter, vROps(Required licenses be provisioned)	Please clarify the software/ licenses required with ROBO servers	Licenses required for HCI at ROBO to work including server and storage virtualization, virtualization management and its monitoring to be provisioned.	<b>Mahindra Defence</b>
100.	91,240	C40-Software Defined Data Center (SDDC) for DC, DR & ROBO sites	It seems like a typo. For ROBO as per bill of material compliance table C44 will be applicable. Please correct the heading as "C40-Software Defined Data Center (SDDC) for DC, DR" [It seems like a typo error. Kindly remove]	Para 91 on page 240 refers to Software Defined Data Centre (SDDC) for DC, DR and ROBO Sites. However, for ROBO Technical requirements, compliance table C44 on page 250 of RFP is applicable.	<b>Mahindra Defence</b>
101.	103,256	List of CG stations and designed bandwidth	Please clarify : 1. Location of Near Line DR 2. Are there separate MPLS link terminating at Nearline DR or it is LAN extension of DC 2. Is there separate Internet link terminating at NLDR	1. Near Line DC - Noida/NCR 2. Separate MPLS link will be required for the NLDC. 3. Provisioning of termination of internet link at NLDC is required. However, providing of internet bandwidth is not in the scope of bidder.	<b>Mahindra Defence</b>
102.	Bill of Material 496	Bill of Material	No separate Load balancer asked for Internet zone separately. Please clarify	The bidder to comply to the conditions/ requirements at Appendix-Q on page 495 of RFP.	<b>Mahindra Defence</b>
103.	103,256	List of CG stations and designed bandwidth	Please clarify How ship will connect to Jetty SDWAN device and what hardware will be used, will there be device like L3 switch will be available for the same.	Refer to para 98 on page 255, Bidder to provide a workable solution including hardware for connecting the ships considering multiple ships (upto 8 ship at a time) at Jetty.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
104.	103,256	List of CG stations and designed bandwidth	Please clarify how the users at remote sites will connect to MPLS network/ SDWAN. We understand that LAN setup/ switches are already available at these remote sites. Please confirm	Para 98 of Appendix - A on page 255 is relevant.	<b>Mahindra Defence</b>
105.	C44. ROBO Server - 95.15 / 251	SRST support for IPPBX	<b>This is OEM specific/ Proprietary Kindly remove the clause to allow wider participation,</b> different OEM support Auto VLAN configuration for voice RADIUS VLAN uses a standard RADIUS attribute and LLDP-MED to automatically configure a VLAN for IP phones.	ICG is having IP telephony service with PAN ICG connectivity. SRST kind off capability is sought for continuation of existing infrastructure, bidder to provide the workable solution for the integration of the same.	<b>Mahindra Defence</b>
106.	C44. ROBO Server - 95.16 / 251	SRST in-built/ external	<b>This is OEM specific/ Proprietary Kindly remove the clause to allow wider participation,</b> Many OEM's Switch Support Auto VLAN configuration for voice RADIUS VLAN uses a standard RADIUS attribute and LLDP-MED to automatically configure a VLAN for IP phones.		<b>Mahindra Defence</b>
107.	C44. ROBO Server - 95.19 / 251	Link Load Balancer, Virtual	<b>Request for clarity.</b> As Various OEMS Switch support LACP. Here we are assuming Link Load Balancer means two interfaces would be in a LACP/aggregation, by using virtual chassis/stack. Switch support LACP & Stacking of two or more switches by using VSF.	The bidder to comply to the conditions/ requirements at 95.19 on page 251 of RFP.	<b>Mahindra Defence</b>
108.	C44. ROBO Server - 95.20 / 251	WAN Link Optimiser	<b>Request to remove this clause from Switch.</b> As this is not relevant to Switch. Must require router or	The bidder to comply to the conditions/ requirements at 95.20 on page 251 of RFP.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
			SD-WAN kind of solution which support WAN optimization		
109.	C44. ROBO Server - 95.21 / 251	WAN bandwidth monitoring	<b>Request to remove this clause from Switch.</b> As this is not relevant to switch. Need some WAN device or NMS system like MRTG and PRTG.	The bidder to comply to the conditions/ requirements at 95.21 on page 251 of RFP.	<b>Mahindra Defence</b>
110.	C44. ROBO Server - 95.24 / 251	Support for security features of IEEE 802.1ae 256-bits encryption, TACACS, RADIUS, 802.1x, RADIUS Change of Authorization, Dynamic VLAN, IPv6 Snooping, IPv6 RA Guard, IPv6 DHCP Guard, IPv6 Neighbor Discovery Inspection and IPv6 Source Guard	Different OEM's Support equivalent Protocols , Request to read/modify the clause as -- "Support for security features of IEEE 802.1ae-MACSec, TACACS, RADIUS, 802.1x, RADIUS Change of Authorization, Dynamic VLAN, IPv6 Snooping or DHCPv6 snooping, IPv6 RA Guard, IPv6 DHCP Guard, IPv6 Neighbor Discovery Inspection or ND snooping and IPv6 Source Guard or Dynamic IPv6 Lockdown."	The bidder to comply to the conditions/ requirements at 95.24 on page 251 of RFP.	<b>Mahindra Defence</b>
111.	Page no. 253, 96. Miscellaneous / 96.3	Project specific OEM MAF Certificate to System Integrator	It is not clear if the MAF is asked from ROBO project OEMs only or from all OEMs. Please ask for MAF from all of the participating OEMs for clarity.	As per RFP, Bidder should be authorized by their OEM partners for the all the items in Bill of Material. MAF to be submitted for the same	<b>Mahindra Defence</b>
112.	Pg 492 – pt k	Network – WAN Network with Minimum 50 Sites	Please change it to “Network – WAN Network with Minimum 40 Sites”	The bidder to comply to the conditions/ requirements at 2(k) on page 490 of RFP.	<b>ECIL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
113.	143	70.13	<p>WAN bandwidth of 8mbps at ROBO site and 40 mbps at Central data centre</p> <p>Bandwidth requirements are contradicting in clauses 70.13 &amp; 101.3. We are considering clause 101.3 for the bandwidth requirement. Please confirm.</p>	Bidder has to bid as per para 103 of appendix A of RFP on page 257.	L&T
114.	255	101.3	Bandwidth requirement of 32 Mbps with compression ratio of 1:1. for MPLS CGNAN units and 1 Gbps for Data Centres. Bandwidth requirement is as per para 105 below.		L&T
115.	143	70.12	<p>The encryption scheme used by SD-WAN solution should be FIPS 140-2 compliant. The solution should provide 128-bit AES or 256-bit AES encryption on the VPN. The branch device should have an inbuilt firewall for providing Layer 4 policies and the branch device should also be capable of running 3rd part firewall VNFs and provide service chaining for the same.</p> <p>Request to modify the clause as:</p> <p>The encryption scheme used by SD-WAN solution should be FIPS 140-2 compliant. The solution should provide 128-bit AES or 256-bit AES encryption on the VPN. The</p>	The bidder to comply to the conditions/ requirements at 70.12 on page 143 of RFP.	L&T

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
			branch device should have an inbuilt firewall for providing Layer 4 policies.		
116.	140	69.6	<p>The proposed solution should have a central management system which support auto discovery, integration and orchestration of the undelaying cloud on which it is deployed.</p> <p>Please clarify that Central orchestrion will be deployed on Premise or on Cloud from Day-1.</p>	All solutions will be deployed on Premises.	<b>L&amp;T</b>
117.	141	70.2	<p>The solution should compromise of a Centralised orchestrator capable of configuration and monitoring of multiple WAN edge devices in the branches, DC &amp; remote sites. Solution should also comprise of a high performance branch customer Premises equipment(CPE) or Virtual CPE devices which can replace traditional WAN routers or co-exist with traditional WAN routers. These branches are to be managed from central orchestrator. The centralized orchestrator should also provide for an option of remote diagnostics to validate reachability of both.</p>		<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
118.	255	100.3	<p>No hardware appliances for routing and security at every remote location as part of 'Software Defined WAN' &amp; 'One Cloud' approach</p> <p>Statement is contradictory in clause 100.3 and 70.2. Please share the no. of physical edge device and virtual edge devices.</p>	Bidder to bid as per sl. 70.2 of page no. 141 of RFP.	L&T
119.	141	70.2	<p>The solution should comprise of a Centralised orchestrator capable of configuration and monitoring of multiple WAN edge devices in the branches, DC &amp; remote sites. Solution should also comprise of a high performance branch customer Premises equipment(CPE) or Virtual CPE devices which can replace traditional WAN routers or co-exist with traditional WAN routers.</p>		L&T
120.	257	103	<p>List of CG stations and design bandwidth</p> <p>Please share the exact location details of site (lat long) for link delivery feasibility.</p>	Address and contact details of ICG sites attached as Annexure-II	L&T



Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
121.	242	91.23	<p>SD-WAN Integration</p> <p>Should integrate natively with SD-WAN software for ICG</p> <p>Please clarify which are the systems along with BOQ required to be integrated with SD-WAN software for ICG.</p>	Details will be shared with L1 bidder.	<b>L&amp;T</b>
122.	499	BOQ	<p>Branch SDWAN Edge Devices In HA at each site- 109 set</p> <p>As per our understanding 109 sets means <math>109*2= 218</math> SDWAN edge device. Please confirm.</p>	Yes, the bidder to provide SDWAN solution meeting current bandwidth requirement only.	<b>L&amp;T</b>
123.	72	38	<p>In DCG project, Uptime Tier-III certification is Envisaged that requires 99.98% of Uptime of services. For achieving very low or near zero RTO/RPO, a third data Centre setup, generally called as Near line DC/DR is required near the main DC, within permissible direct connectivity limits for synchronous replication(direct fiber connectivity supported up to 50-70km)</p> <p>We understand that fiber cable is already exist for main and protection path connectivity for all ICG sites including DC, NLDC and DCCR and bidder have to use dark</p>	Assumption of bidder is not matching with the RFP requirements. Bidder has to comply RFP requirement.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
			fiber to connect network equipment.		
124.	255	100.4	Provide main and protection path to each ICG sites using dark fiber connectivity, wherever feasible.		L&T
125.	255	100.3	No hardware appliances for routing and security at every remote location as part of 'Software Defined WAN' & 'One Cloud' approach  Considering that SI has to supply on virtual image for edge devices .Please confirm that hardware/server will be provided by ICG to deploy SDWAN edge device images.	The bidder to comply to the conditions/ requirements at 100.3 on page 255 of RFP.	L&T
126.	499	BOQ	109 remote Sites are mentioned and SDWAN edge devices mentioned are 109 sets		L&T

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
127.	General	General	<p>General</p> <p>Please provide details specs for structured cabling and their components (Cable, FDMS, LIU, patch cord etc)</p>	<p>Refer to RFP page 32, as the envisaged datacenter is Uptime standards certified, the structured cabling thus shall meet all application design and implementation standards applicable, and shall follow a high quality workmanship. Complete cabling solution shall be modular in nature, end-to-end concealed, properly dressed and with adequate identification markings. It shall at a minimum be based on Cat6A/Cat7 for copper cabling, and fiber cabling shall support 100G with MPO/ similar modular connectivity solutions. Bidder shall derive exact quantity, type and speed of structured cabling solution as per overall RFP requirement and number of racks as mentioned in the RFP.</p>	<b>L&amp;T</b>
128.	Page No. - 392 Point - 244.1	Integration with ICG IAM (Identity and Access Management) system	<p>While technical requirements ask for IDAM technical capabilities (C28- IDAM Technical Requirement), RFP says applications need to be integrated with Oracle IAM solution.</p> <p>Is IAM solution with full Identity and Access Management capabilities already available?</p>	Bidder has to provide the IAM solution and configure.	<b>TNSTSPL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
			If IAM solution already available, it needs to be replaced?		
129.	Page No. - 201	C-28- IDAM Technical Requirement	What are the total number of users to be considered for IDAM licensing?	Approx. 16000	<b>TNSTSPL</b>
130.	Page No. - 201	C-28 - IDAM Technical Requirement	What are the total number of applications to be integrated with IDAM solution?	Minimum 20 application needs to be integrated with IDAM solution	<b>TNSTSPL</b>
131.	Page No. - 201	C-28 - IDAM Technical Requirement	Is DR infra for IDAM should also need to be proposed in High Availability	Yes	<b>TNSTSPL</b>
132.	Page No. - 206	C-29 - Privileged Access Management	What are the number of target devices/servers to be onboarded on PAM?	Bidder to provide a comprehensive solution to meet RFP requirements and SLAs	<b>TNSTSPL</b>
133.	Page No. - 206	C-29 - Privileged Access Management	What are the type of targets which needs to be integrated with PAM.		<b>TNSTSPL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
134.	Page No. - 175 Point - 76.2, C25 - SIEM & SOAR	Proposed solution have the ability to natively monitor layer 7 traffic and perform deep packet inspection (DPI). Solution should support full packet capture and should have the ability where download packets can be restricted based on user/group. Proposed solution should not use any SQL or Flat files or RDBMS database for storing logs and events.	<p><b>Justification:</b> SIEM solution collect all the logs generated by the system or application. SIEM cannot generate the logs on behalf of application (security logs) but can capture the security logs from any security devices such as WAF, IDS/IPS, DOS etc.. &amp; then correlate to find out the vulnerabilities, attacks etc.. SIEM solution can integrate with 3rd party Packet capture solution to collect logs, not all SIEM vendor support this feature. Packet capture is altogether a different technology and support by one OEM. Please remove this point from the RFP so other can also comply and bid.</p> <p><b>Change Required:</b> "The solution should have capability to integrate with applications and not restricted to audit or transaction logs. In addition to this, SIEM should be able to capture security logs from any security or network device which are not natively generated by applications."</p>	The conditions at para 76.2 on page 175 of RFP to be complied. Mentioned capability is required for this project. Bidder can bring a combination of tools and technologies to meet this requirement in overall solution proposed by bidder.	TNSTSPL

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
135.	Page No. - 178, Point - 76.9 - SIEM & SOAR  C25	Machine learning should be embedded across the platform (SIEM, SBDL). It should empower every user in the SOC with ML. Security analyst to become citizen data scientist i.e. used predefined ML algorithms to detect & predict threats, threat hunters to build their own ML models with steps to build, train and implement model and data scientists should be able to integrate advanced ML frameworks.	<p><b>Justification:</b> Request you to change the clause to generic language so that other reputed OEMs can participate, as are point is restricting many leading SIEM OEMs</p> <p><b>Change Required:</b> Solution should be able to utilize Machine learning. It should empower every user in the SOC with ML. Security analyst to become citizen data scientist i.e. used predefined ML algorithms to detect &amp; predict threats, threat hunters to build their own ML models with steps to build, train and implement model and data scientists should be able to <b>configure custom ML models.</b></p>	The conditions at para 76.9 on page 178 of RFP to be complied. Solution should be able to Integrate advanced ML frameworks which will give flexibility and help achieve the outcome. Also, SIEM with advance ML capabilities which enable the user to import custom models or import any additional open source ML models.	<b>TNSTSPL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
136.	Page No. - 178, Point - 76.19 C25 - SIEM & SOAR	Proposed solution must be able to create alerts to notify about suspect activities, allowing actions like: enriching data, sending email, sending information to a syslog and exporting a PCAP file that may be accessed via CIFS/SMB/NFS and via dashboard. Solution should provide the ability to choose between capturing all packets and selective packet capture to lower storage requirements	<p><b>Justification:</b> Request you to change the clause to generic language so that other reputed OEMs can participate, as are point is restricting many leading SIEM OEMs. SIEM is a security solution &amp; collaborates with network security tool to capture information, events from PCAP solution. Hence please consider our request or delete this clause from the RFP.</p> <p><b>Change Required:</b> Proposed SIEM solution should collaborates with network security tool to capture information, events from PCAP solution</p>	The conditions at para 76.19 on page 178 of RFP to be complied. Mentioned capability is required for this project. Bidder can bring a combination of tools and technologies to meet this requirement in overall solution proposed by bidder.	TNSTSPL
137.	Page No. - 178, Point - 76.23 C25 - SIEM & SOAR	The solution must dynamically learn behavioral norms and identify and report on changes as they occur by baselining the the customer environment and monitoring for changes from a known normal state.	<p><b>Justification:</b> Request you to change the clause to generic language so that other reputed OEMs can participate, as are point is restricting many leading SIEM OEMs</p> <p><b>Changes Required:</b> The solution must be able to detect suspicious behavioral and identify and report on changes as they occur in customer environment and monitoring for changes from a known normal state.</p>	The bidder to comply to the conditions/ requirements at para 76.23 on page 178 of RFP. Dynamic learning of behavioral norms, identify and report on changes by baselining the environment and monitoring the changes is all required as part of solution.	TNSTSPL

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
138.	Page No. - 179 Point - 76.24	Proposed solution should come with out-of-the-box dashboards through which you can see the status of key KPIs over time. Solution should allow you to identify the trends or specific points in time where KPI status changed and drill down to the health page where we can monitor metrics like CPU usage, average memory usage, average datastore latency and average network traffic across all hosts.	<p><b>Justification:</b> SIEM can do Health monitoring of its own components, not for all end devices. This can be achieved easily with NMS or any other network monitoring tool. SIEM is a log management and correlation tool achieve compliance, provide security insight of the entire network &amp; to automate the response. Favoring to only one OEM, Request you to please delete this clause from the RFP, not all SIEM solution offer this as a feature.</p> <p><b>Changes Required:</b> Please delete this Point</p>	The bidder to comply to the conditions/ requirements at para 76.24 on page 179 of RFP. Mentioned capability is required for this project. Bidder can bring a combination of tools and technologies to meet this requirement in overall solution proposed by bidder. SIEM should be able to correlate with all the data points in case of any attack to able to pin point the root cause effectively and in timely manner. This helps to reduce the false positive and improve response time.	TNSTSPL
139.	Page No. - 180, Point - 76.26 C25 - SIEM & SOAR	Solution must be able to analyze captured traffic and PCAP files simultaneously. The proposed solution must support the decoding of the following network protocols from log data or picking the meta data from network traffic: HTTP, FTP, DNS, MySQL, SMTP, SNMP, SMB, TCP, UDP, NFS, Oracle (TNS), LDAP/ AD, PostgreSQL, Sybase/ SQL Server (TDS), IMAP, POP3, RADIUS, IRC, SIP, DHCP, AMQP, DIAMETER, MAPI	<p><b>Justification:</b> SIEM is a security solution &amp; collaborate with network security tool to capture information, events from PCAP solution. Hence please consider our request &amp; delete PCAP clause from the RFP. Favoring to only one OEM, Request you to please delete this clause from the RFP, not all SIEM solution offer this as a feature.</p> <p><b>Changes Required:</b> Please delete this Point</p>	The bidder to comply to the conditions/ requirements at para 76.26 on page 180 of RFP. Mentioned capability is required for this project. Bidder can bring a combination of tools and technologies to meet this requirement in overall solution proposed by bidder.	TNSTSPL



Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
140.	Page No. - 180, Point - 76.33 C25 - SIEM & SOAR	The proposed solution must provide GUI that can easily help to build, built-in or custom machine learning models using the guided experience and should be able to integrate with generic machine learning tools like Jupyter Notebook, tensor flow, pytorch etc.	<b>Justification:</b> This point is specific to one OEM. Request you to please make it generic & mention  <b>Change Required:</b> "The proposed solution must provide Logging and Intelligence to provides capabilities to built custom data models.	The bidder to comply to the conditions/ requirements at para 76.33 on page 180 of RFP. Please refer to the clause in RFP. Clause mentioned in query differs from RFP. For ease of use and adoption this capability is required as part of solution.	TNSTSPL
141.	Page No. - 180, C25 - SIEM & SOAR Point - 76.34	The proposed solution should have machine learning platform embedded in the solution that can easily help to build, built-in or create unlimited custom machine learning models using the pre-defined sequence and should be able to integrate with a collection of NLP and classical machine learning libraries, generic machine learning tools like tensor flow, pytorch,R, Python, Scala etc	<b>Justification:</b> This point is specific to one OEM. Request you to please make it generic & mention  <b>Change Required:</b> "The proposed solution must provide Logging and Intelligence to provides capabilities to built custom data models.	The bidder to comply to the conditions/ requirements at para 76.34 on page 180 of RFP. Refer to the clause in RFP. Clause mentioned in query differs from RFP. Machine leaning platform capabilities are required in the solution	TNSTSPL
142.	Page No. - 180, Point - 76.35 C25 - SIEM & SOAR	The proposed solution machine learning capabilities must allow addition of custom machine learning algorithms from popular open source libraries like NLP, Python etc.	<b>Justification:</b> This point is specific to one OEM. Request you to please make it generic & mention  <b>Change Required:</b> "The proposed solution must provide Logging and Intelligence to provides capabilities to built custom data models.	The bidder to comply to the conditions/ requirements at para 76.35 on page 180 of RFP. Refer to the clause in RFP. Clause mentioned in query differs from RFP. Machine leaning capabilities are required in the solution	TNSTSPL

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
143.	Page No. - 180 Point - 76.36 SIEM & SOAR	C25 - The proposed solution machine learning capabilities must includes API access, role-based access controls for machine learning models. The proposed solution should natively have ML capabilities and should not have separate engine/compute requirements for running ML models.	<b>Justification:</b> This point is specific to one OEM. Request you to please make it generic & mention  <b>Change Required:</b> "The proposed solution must provide Logging and Intelligence to provides capabilities to built custom data models.	Bidder has to comply with RFP specifications. Machine leaning capabilities are required in the solution. ML capabilities needs be embedded in the solution and shouldn't require any separate compute so that ML algorithm should run simultaneously on the Data lake created by ingesting customer machine data.	TNSTSPL
144.	Page No. - 182 Point - 76.41 SIEM & SOAR	C25 - The proposed SOAR solution should have built in functionality for triage health check failures – perform ping test, gather information (VM status, OS Uptime, SCOM status for Windows), and triage issues.	<b>Justification:</b> This point is specific to one OEM. Request you to please make it generic & mention  <b>Change Required:</b> " The proposed SOAR solution should provides enrichment to address mentioned functionality."	Bidder has to comply with RFP specifications. Mentioned capability is required in solution to run the operations efficiently. Triaging is very basic feature of SOAR solution which help analysts in identifying and triaging the issues.	TNSTSPL
145.	Page No. - 182 Point - 76.41 - SIEM & SOAR	C25 The proposed SOAR solution should support periodic automations – notify the users of underutilized VMs and reduce VM profile.	<b>Justification:</b> This point is specific to one OEM. Request you to please make it generic & mention  <b>Change Required:</b> "The proposed SOAR solution can be configured to support periodic automations."	Bidder has to comply with RFP specifications. Mentioned capability is required in solution to run the operations efficiently	TNSTSPL

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
146.	Page No. - 182 Point - 76.42 - SIEM & SOAR C25	Ability to identify the future needs of critical system resources, no prior knowledge in predictive modeling algorithms required to use this functionality, and the ability to easily interpret and customize the results	<b>Justification:</b> This point is specific to one OEM. Request you to please make it generic & mention  <b>Change Required:</b> "Solution should provide Predictive analysis to identify future need".	Bidder has to comply with RFP specifications. Mentioned capability is required in solution to run the operations efficiently and with ease. This functionality is critical as it'll help analyst in setting up an alert for underutilized Virtual Machine and helps in optimization of same.	<b>TNSTSPL</b>
147.	143/70.13	WAN bandwidth of 8 Mbps at ROBO site and 40 Mbps at Central Data Center site	Kindly amend "WAN bandwidth of 32 Mbps at ROBO site and 1000 Mbps at Central Data Center site" <b>[Justification: The given clause is not aligned to the bandwidth details requirement at each site].</b>	Bidder has to bid as per para 103 of appendix A of RFP on page 257.	<b>TCS</b>
148.	252/95.29	OEM certified Inter-operability with existing Central Cloud Management Software VMware vCenter, vROps(Required licenses be provisioned)	Please clarify the software/licenses required with ROBO servers	Licenses required for HCI at ROBO to work including server and storage virtualization, virtualization management and its monitoring to be provisioned.	<b>TCS</b>
149.	256/103	List of CG stations and designed bandwidth	Please clarify : 1. Location of Near Line DR 2. Are there separate MPLS link terminating at Nearline DR or it is LAN extension of DC 2. Is there separate Internet link terminating at NLDR	1. Near Line DC - Noida/NCR 2. Separate MPLS link will be required for the NLDC. 3. Provisioning of termination of internet link at NLDC is required. However, providing of internet bandwidth is not in the scope of bidder.	<b>TCS</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
150.	256/103	List of CG stations and designed bandwidth	Please clarify How ship will connect to Jetty SDWAN device and what hardware will be used, will there be device like L3 switch will be available for the same.	Para 98 of Appendix - A on page 255 is relevant. Bidder has to provide a workable solution for connecting the ship with the DC considering multiple ships (upto 8 ship at a time) at Jetty.	<b>TCS</b>
151.	256/103	List of CG stations and designed bandwidth	Please clarify how the users at remote sites will connect to MPLS network/ SDWAN. We understand that LAN setup/ switches are already available at these remote sites. Please confirm	Para 98 of Appendix - A on page 255 is relevant.	<b>TCS</b>
152.	265/103	NW Connectivity & Components	Please clarify the number of sites along with the number of links at each site with Bandwidth (row with link L-191 to L-202). 1. What is ICG IDC location 2. what are Inter-MPLS Links 3. What is IDC-DC link 4. Is there a separate Internet and MPLS link terminating at Near Line DR	1. ICG IDC location at - Mahipalpur, Delhi. 2. MPLS links details placed at para 103 of appendix A of RFP on page 257. 3. IDC - DC link is the link between Interim Data Centre at CGHQ and the Upcoming Data Centre at Mahipalpur, Delhi. 4. ICG has asked for only MPLS links at all places. No internet link is require.	<b>TCS</b>
153.	18	30.1.3	Each site is to be connected with two redundant lines sourced from two different service providers  In 109 nodes , 101 nodes are with redundant links (202) another 8 VSAT link nodes are having single link. Wanted to confirm the same.	Affirmative	<b>BEL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
154.	18	30.1.3	109 Nodes Are these nodes part of intranet within those particular location	Affirmative	<b>BEL</b>
155.	250	95.4	Compute Nodes Ruggedized HCI Appliance with Enterprise Hypervisor Licenses. RFP calls for HCI Appliance , there is no separate compute nodes required. Three HCI Ruggedized nodes will be coming and native SDS will take care for all the data protection.	The bidder to comply to the conditions/ requirements at para 95.4 on page 250 of RFP.	<b>BEL</b>
156.	250	95.5	Quorum Node RFP calls for Three HCI Appliance , there is no separate Quorum nodes required. Three HCI Ruggedized nodes will be coming and native SDS will take care for all the data protection. Not Required , May be removed for better competition	The bidder to comply to the conditions/ requirements at para 95.5 on page 250 of RFP.	<b>BEL</b>
157.	251	95.12	Storage Available Capacity, 2RF Please clarify if 4 TB usable capacity to be provided after considering RF=2,FTT=1.	Affirmative	<b>BEL</b>
158.	251	95.14	L3 Switch, SDN Ready For HCI two TOR Switches are required , Kindly clarify if 12 Port switch shall be factored with HCI.	Affirmative	<b>BEL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
159.	251	95.15	SRST Support for IPPBX  May be removed for better competition	ICG is having IP telephony service with PAN ICG connectivity. SRST kind off capability is sought for continuation of existing infrastructure, bidder to provide the workable solution for the integration of the same.	<b>BEL</b>
160.	251	95.16	SRST in-built/external  May be removed for better competition		<b>BEL</b>
161.	251	95.17	Min. Switch Speed  Min. 4 x 10 Gbps port per HCA to be provided	The specifications stated at reference clauses are minimum and are to be mandatorily complied with. However, the bidder is at liberty to include higher specifications/ optimise suitably to attain the desired solution.	<b>BEL</b>
162.	251	95.19	Link Load Balancer, Virtual  May be removed for better competition	Bidder to offer solution complying with specifications mentioned in RFP	<b>BEL</b>
163.	251	95.2	WAN Link Optimiser  May be removed for better competition	Bidder to offer solution complying with specifications mentioned in RFP	<b>BEL</b>
164.	251	95.21	WAN Bandwidth Monitoring  May be removed for better competition	Bidder to offer solution complying with specifications mentioned in RFP	<b>BEL</b>
165.	251	95.23	Support for OSPF, VRRP, 1588v2, SNMPv3  May be removed for better competition	Bidder to offer solution complying with specifications mentioned in RFP	<b>BEL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
166.	251	95.24	<p>Support for security features of IEEE 802.1ae 256 bit encryption, TACACS, RADIUS, 802.1x, Radius change of Authorisation , Dynamic VLAN, IPv6 Snooping, IPv6 Guard, IPv6 DHCPGuard, IPv6 Neighbour Discovery Inspection and IPv6 Source Guard.</p> <p>Support for security features TACACS, RADIUS, 802.1x, Radius change of Authorisation , Dynamic VLAN, IPv6 Snooping, IPv6 Guard, IPv6 DHCPGuard, IPv6 Neighbour Discovery Inspection and IPv6 Source Guard. Would request to amend this clause for wider participation</p>	Bidder to offer solution complying with specifications mentioned in RFP	<b>BEL</b>
167.	251	95.25	<p>Rugged Enclosure, MIL Grade</p> <p>Since Smart Rack has been asked in the tender for ROBO Locations May be removed</p>	ROBO is sought for ICG ships. Therefore, bidder to comply with the RFP requirement.	<b>BEL</b>
168.	251	95.26	<p>Marine Grade Installation</p> <p>Clause may be changed to "Ruggedized HCI Appliance should be certified with MIL-STD-810G certification"</p>	ROBO is sought for ICG ships. Therefore, bidder to comply with RFP requirement.	<b>BEL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
169.	256	102.3	<p>High level Bill of Material is as under:-            VSAT (Very Small Aperture Terminal) link to Island sites. Link should support mesh topology with 1:1 bandwidth of latency not exceeding 800ms</p> <p>Kindly request to make the clause the following:</p> <p>VSAT (Very Small Aperture Terminal) link to Island sites. Link should support mesh/star topology with 1:1 bandwidth of latency not exceeding 800ms</p>	The bidder to comply to the conditions/ requirements at para 102.3 on page 256 of RFP.	<b>HCIL</b>
170.	1	238	<p>(a) Core IT Infrastructure.</p> <p>(iii) Establishment of pan ICG MPLS/ VSAT Wide Area Network providing connectivity to.....</p> <p>Kindly request you to provide details for VSAT connectivity band i.e. Ku-Band or INSAT C-Band for operation.</p>	Bidder to offer solution complying with specifications mentioned in RFP	<b>HCIL</b>
171.	257	103	<p>List of CG Stations &amp; Designed Bandwidth.</p> <p>Class-'C': Shall be VSAT, 1:1 BW, 2Mbps Uplink, latency not exceeding 800ms</p> <p>What is the download bandwidth. Is it the same as uplink i.e. 2Mbps ?</p>	Bidder to offer solution complying with specifications mentioned in RFP	<b>HCIL</b>



Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
172.	256	102	<p>TECHNICAL SPECIFICATIONS: NETWORK CONNECTIVITY &amp; COMPONENTS</p> <p>VSAT (Very Small Aperture Terminal) link to Island sites. Link should support mesh topology with 1:1 bandwidth of latency not exceeding 800ms</p> <p>What is the antenna and RF sizing required for VSAT link</p>	Bidder to offer solution complying with specifications mentioned in RFP	<b>HCIL</b>
173.	257	103	<p>TECHNICAL SPECIFICATIONS: NETWORK CONNECTIVITY &amp; COMPONENTS</p> <p>Class-‘C’: Shall be VSAT, 1:1 BW, 2Mbps Uplink, latency not exceeding 800ms</p> <p>Is only Bandwidth required 1:1 or VSAT equipment is also required 1:1.</p> <p>By 1:1 bandwidth is it meant (2 Mbps + 2 Mbps) uplink &amp; (2 Mbps + 2 Mbps) downlink at a single node.</p>	1:1 means the bandwidth should not be pooled i.e the Maximum Information Rate (MIR) and Committed Information Rate (CIR) must be same.	<b>HCIL</b>
174.	438	7.3.1.2.	<p>Appendix G:TRIAL METHODOLOGY VSAT links with latency upto 1800ms etc.</p> <p>Please clarify whether latency is 1800 ms or 800 ms</p>	VSAT latency should not exceed 800 ms	<b>HCIL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
175.	438	7.3.1.2	<p>Performance Testing. Carryout Load Testing, Stress Testing, Scalability Testing, Stability Testing by simulating conditions specific to ICG such as Wide Area Network (WAN), VSAT links with latency upto 1800ms etc.</p> <p>Performance Testing. Carryout Load Testing, Stress Testing, Scalability Testing, Stability Testing by simulating conditions specific to ICG such as Wide Area Network (WAN), VSAT links with latency upto 1800ms etc.</p> <p>We request Coast Guard to consider LEO technology for SATCOM solution as it can provide low latency and high throughputs. For example a LEO VSAT will be able to provide throughputs of 50Mbps and Latency of 100ms. Hence Remote to Remote response will be approx 250ms where as in MESH it 800ms and Star its 1600ms.</p>	VSAT specification mentioned in RFP is minimal. Bidder can offer better upgraded solution	<b>HCIL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
176.	257	103	<p>List of CG Stations &amp; Designed Bandwidth.</p> <p>VSAT Locations at ISLAND are highly corrosive</p> <p>We request Coast Guard to ensure the VSAT provided at ISLAND locations is covered by RaDome as the ISLAND environment is highly corrosive. The electronics equipment along with Antenna gets rusted more often &amp; its very difficult to carry out repairs at these ISLAND locations. Hence Antenna system should be protected by RADOME</p>	VSAT specification mentioned in RFP is minimal. Bidder can offer better upgraded solution	<b>HCIL</b>
177.	257	103	<p>List of CG Stations &amp; Designed Bandwidth.</p> <p>VSAT Locations at ISLAND have high wind velocity</p> <p>We request Coast Guard to deploy Automatic steerable Gyro Antenna as ISLAND locations for continuous connectivity. The Static VSAT Antenna 2.4m / 3.2m gets misaligned due to high wind velocity. The new age LEO VSAT with Radome covering ensures that there is no Wind misalignment</p>	Specification mentioned in RFP is minimal. Bidder can offer better solution	<b>HCIL</b>
178.			<p>Backhauling Link</p> <p>Link from Commercial VSAT Operator to CG DC/DR</p>	The relevant conditions and clauses in the RFP are to be complied.	<b>HCIL</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
179.	257	103	<p>List of CG Stations &amp; Designed Bandwidth.</p> <p>Next Generation LEO VSAT enables 100Mbps Throughput, Low Latency 100ms, quick deployment as no Antenna Pointing is needed. We request Coast Guard to allow bidder to quote for LEO VSAT as alternate media to MPLS where MPLS is not available or have low Uptimes.</p>	VSAT specification mentioned in RFP is minimal. Bidder can offer better upgraded solution	<b>HCIL</b>
180.			<p>Ethernet ports in VSAT modem</p> <p>Please clarify the number of Ethernet ports required in VSAT modem</p>	2	<b>HCIL</b>
181.	255	98	We request to allow bidder to provide the links on RF also wherever fiber laying not possible	The bidder to comply to the conditions/ requirements at para 98 on page 255 of RFP.	<b>Airtel</b>
182.	255	101.2	Is bidder need to provide two different MPLS cloud or two different last miles	MPLS links should be from two different service providers and it should be manageable and in high availability.	<b>Airtel</b>
183.	Site access and permission	General	<p>All kind of permission/access at site from feasibility check to link delivery will be arranged by customer.</p> <p>In building internal cable routing in false ceiling and under POP wall will be in customer scope of work</p>	Permission should be obtained by SI. Documents/ certificate, if required, will be provided by ICG.	<b>Airtel</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
184.	19	General	Please allow RF as last mile for MPLS connectivity and providing other modes of connectivity as Jetties will be challenging	Last mile connectivity to be provided as per specification defined at page 255-265 of RFP.	<b>Airtel</b>
185.	19	General	Requesting you to modify contention ratio based on bandwidth utilisation	Bidder to follow the conditions mentioned in RFP	<b>Airtel</b>
186.	19	General	Can we consider pooled bandwidth deployment as VSAT bandwidth commercially very expensive	VSAT connectivity is required only for 08 remote locations and governed by para 102.3 at page no. 256 of RFP.	<b>Airtel</b>
187.	73	General	what is the replication bandwidth required between DC and DR and do you need redundancy in replication bandwidth	1 GBPs bandwidth to be catered between DC and DR.	<b>Airtel</b>
188.	73	General	Please specify internet Bandwidth required at DC and DR along with DDOS mitigation capacity if needed  Coast Guard is requested to include in BOQ the backhaul link of 20Mbps at-least to DC & DR each from Satellite Service provider HUB. This can be encrypted by IPSEC to enhance security	The bidder to comply to the conditions/ requirements conditions / clauses mentioned in RFP.	<b>Airtel</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
189.	256	102.3	<p>High level Bill of Material is as under:-            VSAT (Very Small Aperture Terminal) link to Island sites. Link should support mesh topology with 1:1 bandwidth of latency not exceeding 800ms</p> <p>Kindly request to make the clause the following:</p> <p>VSAT (Very Small Aperture Terminal) link to Island sites. Link should support mesh/star topology with 1:1 bandwidth of latency not exceeding 800ms</p>	The bidder to comply to the conditions/ requirements at para 102.3 on page 256 of RFP.	<b>RailTel</b>
190.	1	238	<p>(a) Core IT Infrastructure.</p> <p>(iii) Establishment of pan ICG MPLS/ VSAT Wide Area Network providing connectivity to.....</p> <p>Kindly request you to provide details for VSAT connectivity band i.e. Ku-Band or INSAT C-Band for operation.</p>	Bidder to offer solution complying with specifications mentioned in RFP	<b>RailTel</b>
191.	257	103	<p>List of CG Stations &amp; Designed Bandwidth.</p> <p>Class-‘C’: Shall be VSAT, 1:1 BW, 2Mbps Uplink, latency not exceeding 800ms</p> <p>What is the download bandwidth. Is it the same as uplink i.e. 2Mbps?</p>	Yes	<b>RailTel</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
192.	256	102	<p>TECHNICAL SPECIFICATIONS: NETWORK CONNECTIVITY &amp; COMPONENTS</p> <p>VSAT (Very Small Aperture Terminal) link to Island sites. Link should support mesh topology with 1:1 bandwidth of latency not exceeding 800ms</p> <p>What is the antenna and RF sizing required for VSAT link</p>	Bidder to provide the solution as per the RFP requirement.	<b>RailTel</b>
193.	257	103	<p>TECHNICAL SPECIFICATIONS: NETWORK CONNECTIVITY &amp; COMPONENTS</p> <p>Class-‘C’: Shall be VSAT, 1:1 BW, 2Mbps Uplink, latency not exceeding 800ms</p> <p>Is only Bandwidth required 1:1 or VSAT equipment is also required 1:1.</p> <p>By 1:1 bandwidth is it meant (2 Mbps + 2 Mbps) uplink &amp; (2 Mbps + 2 Mbps) downlink at a single node.</p>	1:1 means the bandwidth should not be pooled i.e the Maximum Information Rate (MIR) and Committed Information Rate (CIR) must be same.	<b>RailTel</b>
194.	438	7.3.1.2.	Appendix G:TRIAL METHODOLOGY VSAT links with latency upto 1800ms etc.	VSAT latency should not exceed 800 ms	<b>RailTel</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
195.		1	Pl provide Complete location address details including lat/long.	Postal address along with pin code of complete locations will be shared during pre-bid query meeting.	<b>TataTele Services</b>
196.		2	Page No. 253/ pt. 95.80  Page 253 point 95.80 – WAN latency support upto 200 ms. Can this checked and changed to <= 110 ms. This is latency which we provide in case of tier 3 cities. For tier 1 and 2 latencies are 70 ms and 90 ms respectively.	The conditions at para 95.80 on page 2 of RFP are to be complied.	<b>TataTele Services</b>
197.		3	Page No. 141/ pt. 70  Page 141 point 70 – Customer is looking for MPLS network as well as RFP document talks about SD-WAN. Is customer looking for links to be terminated on SD- WAN devices instead of a regular router. Seeking confirmation.	The link will terminate on respective service provider's router and then terminate on SDWAN.	<b>TataTele Services</b>
198.		4	Page 256/ point 101.13  Every location will have LAN connected to L3 switch. Will this L3 switch be placed between SD-WAN device and LAN.	Affirmative	<b>TataTele Services</b>
199.		5	General query  NW should be scalable to 1G/10G or higher : Please define all the locations where 1G or 10 G is needed.	It is the generic scalable capability required.	<b>TataTele Services</b>



Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
200.		6	General query Latency & Jitter : Document doesn't speak about Jitter and latency from SLA point of view.	SLA criteria is defined at para 1.8 - 1.10 on pages 422 - 425 of this RFP.	<b>TataTele Services</b>
201.		7	Page 424/ point 1.9.7/1.9.8 Bandwidth availability >=99.75% : Does it means Uptime or throughput post transmission losses.	Throughput	<b>TataTele Services</b>
202.		8	Page 72/ point 1.9.7/1.9.8 Uptime of services 99.98% : Can it be reworked as NW Uptime on ring architecture is 99.5% quarterly.	The standard is defined based on Uptime institute's Tier-III requirement. Bidder has to comply with RFP requirements	<b>TataTele Services</b>
203.		9	General query OTC Charges : Document doesn't talks about OTC charges and how it will be paid.	The bid should be inclusive of OTC	<b>TataTele Services</b>
204.		10	Page 255/ point 100.4 Document asks for providing dark fiber where ever feasible – Please specify the use of dark fiber.	It should be used for providing network connectivity as sought in this RFP, wherever feasible.	<b>TataTele Services</b>
205.		11	Page 256/ point 101.8 Says network should be capable of integrating IPsec – Please specify its usage in case MPLS network is being asked.	Capability mentioned here must be required for suiting with ICG charter of duties	<b>TataTele Services</b>
206.		12	Page 127/ point 65.8 Says switch should be capable of integrating IPsec – Please specify its usage in case MPLS network.		<b>TataTele Services</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
207.		13	General query Load balancing : Locations where 2 links have been sought, load balancing to be applied. Please specify whose SOW will it be	All links except VSAT locations to be provided with redundant links by the bidder.	<b>TataTele Services</b>
208.		14	General query Warranty : Locations where 2 links have been sought, load balancing to be applied. Please specify whose SOW will it be	All links except VSAT locations to be provided with redundant links by the bidder.	<b>TataTele Services</b>

**Additional queries raised during pre-bid meeting**

209.	General		Specification of passive cabling may be provided	The structured cabling shall meet all application design and implementation standards applicable, and shall follow a high quality workmanship. Complete cabling solution shall be modular in nature, properly dressed and with adequate identification markings. It shall at a minimum be based on Cat6A/Cat7 for copper cabling, and fiber cabling shall support 100G with MPO/ similar modular connectivity solutions. Bidder shall derive exact quantity, type and speed of structured cabling solution as per overall RFP requirement and number of racks as mentioned in the RFP.	M/s Aviation Technology
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Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
210.	General		How the OG and UG cabling requirement to be calculated at 109 sites?	Location address and pin code including contact number of each sites provided as Annexure-II to pre-bid replies. Based on these information, estimation may be done by the bidder.	<b>BEL</b>
211.	General		Is provisioning of encryptor within the project scope?	Encryptor is not in the scope of DCG project.	<b>BEL</b>
212.	General		Location address and contact details of 109 sites may be provided.	Address and contact details of ICG sites attached as Annexure-II	<b>RailTel</b>
213.	General		How bandwidth billing will be done in the project? Is it to be raised by ISP directly to ICG or bidder will raise the bill and paid to ISP?	During first year of contract, bidder needs to pay bandwidth charges to ISP. Thereafter, bidder has to raise bill to ICG and ICG will pay bandwidth charges directly to bidder. SLA compliance of ISP needs to be evaluated by bidder prior raising the bill. Bidder to mention site wise BW charges, maintenance cost, one time installation charges separately as per pre-bid format.	<b>RailTel</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
214.	General			During first year of contract, bidder needs to pay bandwidth charges to ISP. Thereafter, bidder has to raise bill to ICG and ICG will pay bandwidth charges directly to bidder. SLA compliance of ISP needs to be evaluated by bidder prior raising the bill. Bidder to mention site wise BW charges, maintenance cost, one time installation charges separately as per pre-bid format.	<b>HPE</b>
215.			Functional requirement of ROBO may be explained for clarity.	ROBO is envisaged for offering offline capability of ERP application to ships. Technical requirement of ROBO is given in RFP in details.	<b>Sara Infoway</b>
216.	250	C44	<b>ROBO Servers.</b> <b>Please explain the requirement</b>		<b>Sara Infoway</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
217.	492	Point 6	<p>6. Further, following criteria will apply for qualifying the project or it's elements to be considered as a similar project:-</p> <p>(a) Established Data Centre of at least 55 KW capacity and a Disaster Recovery Data Centre of at least half the capacity of the Data Centre.</p> <p>(b) Undertaken a MPLS/ VSAT network with minimum 50 nodes.</p> <p>(c) Implementation of proven ERP solution for minimum 4000 ERP licenses consisting at least one module of logistics, finance or HR.</p> <p>We request to amend the clause as under:</p> <p>6. Further, following criteria will apply for qualifying the project or it's elements to be considered as a similar project:-</p> <p>(a) Established Data Centre of at least 55 KW capacity and a Disaster Recovery Data Centre of at least half the capacity of the Data Centre.</p> <p>(b) Undertaken a MPLS/ VSAT/SDWAN network with minimum 50 nodes</p> <p>(c) Implementation of proven ERP solution for minimum 1000 ERP licenses consisting at least one module of logistics, finance or HR.</p>	The bidder to comply to the conditions/ requirements at para 6 on page 292 of RFP.	<b>Xtranet</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
218.	255	98	<p>Digital India plan of fiber connectivity to all rural Panchayat union offices underlines the importance of network connectivity with adequate bandwidth in digitization efforts. In similar lines, Digital Coast Guard should interconnect all Coast Guard units including ships using high speed, highly secured MPLS (Multiprotocol Label Switching) fiber networking / VSAT Equipment to run the Managed MPLS connectivity like Router, Rack UPS and Earthing needs to be deployed and maintained by Network Bandwidth Service Provider.</p> <p>ISP to Provide Router, UPS , RACK &amp; Earthing. What is the UPS backup time required. No of separate earth required? Normal or Chemical earthing? Rack Size reqd ?</p> <p>Please clarify</p>	Bidder to provide a comprehensive solution to meet RFP requirements and SLAs conditions	Ishaan
219.	255	99	<p>ALL CG units need to be connected with high-speed fiber MPLS network from any of the ISP. The SI (System Integrator) should implement the last mile redundant fiber connectivity to CG units including locations such as Jetties.</p> <p>All the links should be on Ring Fibre. Please clarify</p>	Each ISP link should have a redundant path for protection (using ring topology).	Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
220.	256	100.1	<p>Software-Defined WAN with Micro-Segmentation using virtual NGFW at all locations including Data Centre, DR DC &amp; ROBO sites.</p> <p>Its SDWAN with MPLS as underlay, Do we need to provide DUAL MPLS to use Load Balancing , Aggregation &amp; failover option of SDWAN. Please Clarify</p>	The bidder to comply to the conditions/ requirements at para 101 on page 255 of RFP.	Ishaan
221.	256	100.3	<p>No hardware appliances for routing and security at every remote location as part of 'Software Defined WAN' &amp; 'One cloud' approach.</p> <p>Ref 102.8 Clarification</p>	The bidder to comply to the conditions/ requirements at para 100.3 on page 256 of RFP.	Ishaan
222.	256	101.2	<p>MPLS Links from any of the two different service providers for high availability.</p> <p>At certain remote location , there would only one MPLS service provider. Please clarify</p>	Refer to para 103 and 104 on page 257 and 265 of RFP Class C sites will have only one link.	Ishaan
223.	258	102.7 & 102.8	<p>Centralised Management software for ROBO stack including HCI, SD WAN, SD Security stacks - as required</p> <p>L3 switches with SDN in HA - as required</p> <p>102.8 : L3 Functionality is inbuilt in the SDWAN Box . Are SDWAN Boxes required in HA ? Please clarify</p>	The bidder to comply to the conditions/ requirements at para 102.7 & 102.8 on page 258 of RFP.	Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
224.	258	Note (ii)	<p>All Network hardware of router, switch, UTM etc. should be designed to meet scalability of at least 4 times of present bandwidth requirement for each site.</p> <p>Considering the clause , do the SI need to provide required Router , SDWAN boxes with License from day one with enhance capability ? Please clarify</p>	SDWAN Licensing is not required to cater for scalability.	Ishaan
225.	58	103	<p>Class - 'S': Link between DC and DR Bandwidth per link shall be 1 Gbps.</p> <p>Class - 'A': Primary Link of Underground Fiber (UG with minimum depth of 1.8 mtr) and Secondary Link may be UG or Over ground (OG). Bandwidth per link shall be 32 Mbps.</p> <p>Class - 'B': Both Primary / Secondary Links may be OG or UG. Each Link should have 32 Mbps bandwidth.</p> <p>What fibre last mile at DC &amp; DR - UG or OH ? As per standard practice of DOT - 1.65 Mtr UG Please clarify</p>	Bidder to comply with para 101.2 on page 255 of RFP	Ishaan



Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
226.	103	265	<p>NW Connectivity &amp; Components</p> <p>Please clarify the number of sites along with the number of links at each site with Bandwidth ( row with link L-191 to L-202).</p> <ol style="list-style-type: none"> <li>1. What is ICG IDC location</li> <li>2. what are Inter-MPLS Links</li> <li>3 .What is IDC-DC link</li> <li>4. Is there a separate Internet and MPLS link terminating at Near Line DR</li> </ol>	<ol style="list-style-type: none"> <li>1. ICG IDC location at - Mahipalpur, Delhi.</li> <li>2. MPLS links details placed at para 103 of appendix A of RFP on page 257.</li> <li>3. IDC - DC link is the link between Intrim Data Centre at CGHQ and the Upcoming Data Centre at Mahipalpur, Delhi.</li> <li>4. ICG has asked for only MPLS links at all places. No internet link is required.</li> </ol>	Ishaan
227.	95.29	252	<p>OEM certified Inter-operability with existing Central Cloud Management Software VMware vCenter, vROps(Required licenses be provisioned)</p> <p>Please clarify the software/licenses required with ROBO servers</p>	Licenses required for HCI at ROBO to work including server and storage virtualization, virtualization management and its monitoring to be provisioned.	Ishaan
228.	91	240	<p>C40-Software Defined Data Center (SDDC) for DC, DR &amp; ROBO sites</p> <p>It seems like a typo. For ROBO as per bill of material compliance table C44 will be applicable. Please correct the heading as "C40-Software Defined Data Center (SDDC) for DC, DR"</p>	For ROBO compliance table C44 on page 250 of RFP is applicable	Ishaan

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
229.	103	256	List of CG stations and designed bandwidth  Please clarify : 1. Location of Near Line DR 2. Are there separate MPLS link terminating at Nearline DR or it is LAN extension of DC 2. Is there separate Internet link terminating at NLDR	1. Near Line DC - Noida/NCR 2. Separate MPLS link will be required for the NLDC. 3. Provisioning of termination of internet link at NLDC is required. However, providing of internet bandwidth is not in the scope of bidder.	Ishaan
230.	Bill of Material	496	Bill of Material  No separate Load balancer asked for Internet zone separately. Please clarify	The conditions at para Appendix-Q on page 496 of RFP are to be complied.	Ishaan
231.	103	256	List of CG stations and designed bandwidth  Please clarify How ship will connect to Jetty SDWAN device and whath hardware will be used, will there be device like L3 switch will be available for the same.	Refer to para 98 on page 255, Bidder to provide a workable solution including hardware for connecting the ships considering multiple ships (upto 8 ship at a time) at Jetty.	Ishaan
232.	103	256	List of CG stations and designed bandwidth Please clarify how the users at remote sites will connect to MPLS network/ SDWAN. We understand that LAN setup/ switches are already available at these remote sites. Please confirm		Ishaan

**PAYMENT TERMS, WARRANTY & AIAMC RELATED PRE-BID QUERIES**

<b>Ser</b>	<b>RFP reference</b>	<b>Content of RFP requiring clarification</b>	<b>Points for Clarification / Query by Bidder</b>	<b>Response/ Clarification</b>	<b>Vendor</b>
1.	Page # 423	Penalty calculations	To be limited to 1% of Quarterly pay-out	The bidder to comply to the conditions/ requirements at para 1.10 on page 425 of RFP.	<b>TCL</b>
2.	Page # 458	Payment term for services	Quarterly in Advance	No advance payment will be made, payment will be made in each quarter after receiving of invoices and calculating SLA	<b>TCL</b>
3.	Page # 426/ Section # 1.9.8	Internet Bandwidth availability	Connectivity availability is per site or per link . Please confirm. Also request you to please cap penalty to 10% of QP	Connectivity availability is per link. Penalty as per RFP conditions.	<b>TCL</b>
4.	RFP Page 410 of 505	7. In case the complete delivery of the Warranty obligations is delayed beyond the period stipulated in this contract, then the SELLER undertakes that the warranty period for the goods/ stores shall be extended to that extent.	Bidder request to delete this clause as in case of delay penalty will be charged as per the SLA defined.	The conditions at page 410 to 505 of RFP are to be complied	<b>HPE</b>
5.	RFP Page 424 of 505	1.7 Supply/ Installation and Configuration of IT Infrastructure	There are 2 penalty clauses related to delay in deliverables as stated in page 424 and page 449. Bidder request to delete the clause in Page 424	The bidder to comply to the conditions/ requirements at Para 6 on 446 of RFP .	<b>HPE</b>
6.	RFP Page 431 of 505	(iv) The total deduction per quarter shall not exceed 20% of the total QP value.	Bidder request to cap the penalty to 10% of QP value	The bidder to comply to the conditions/ requirements on page 431 tp 505 of RFP.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
7.	RFP Page 447 of 505	1.3.12. Payment of Taxes and Duties. Payment of taxes, duties and statutory levies will be made on submission of requisite documentary proof to Paying authority. Reimbursement of taxes and duties will be as per rates and amounts indicated in the commercial bid/contract or as per actuals whichever is lower.	Bidder clarifies that GST needs be paid as per the actual applicable at the time of invoicing. Also, proof of paying of taxes cannot be submitted along with invoice as the same need to paid after collection from Customer within the due date as per GST law.	The bidder to comply to the conditions/ requirements on page 447 to 505 of RFP.	HPE
8.	RFP Page 459 of 505	DELIVERY SCHEDULE AND STAGES OF PAYMENT	Bidder request Customer to clarify below points. 1. APBG shall only be submitted for advance payment of 15% of contract value. All other payment shall be made after completion of milestone and submission of invoice 2. Since as per TRAI, Bandwidth can not be reseller by bidder, Customer shall sign tripartite contract with ISP and payment and other obligation will be directly between ISP and Customer. 3. All payment shall be made within 30 days of date of Invoice	1. As per Para 2 on page 456, APBG of equivalent amount to be submitted at each milestone. APBG will be returned on pro-rata basis on delivery of each lot batch. 2. Bidder has to comply with RFP clause. 3. Bidder has to comply with RFP clause.	HPE
9.	RFP Page 463 of 505	2.4 Hardware/ Software for DC/ DRDC/ NLDC	Bidder request to change payment milestone as 1. 70% of cost of HW/SW of DC, DRDC, NSDC on delivery 2. 15% of cost of HW/SW of DC, DRDC, NSDC and 75% of I&C on installation and commission	The bidder to comply to the conditions/ requirements on page 463 to 505 of RFP.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
10.	RFP Page 463 of 505	2.5 Hardware/ Software for Ships	Bidder request to change payment milestone as 1. 70% of cost of HW/SW on delivery 2. 15% of cost of HW/SW and 85% of I&C on installation and commission	The bidder to comply to the conditions/ requirements on page 463 to 505 of RFP.	HPE
11.	RFP Page 463 of 505	2.6 ERP	Bidder request to change payment milestone as 1. 50% of the cost of ERP package excluding hardware cost on delivery of ERP licenses 2. 10% of the cost of ERP package excluding hardware cost on 1st Pilot 3. 10% of the cost of ERP package Excluding Hardware Cost on 2nd Pilot 4. 85% cost of the ERP hardware and 85% of I&C charges on Delivery, installation and Commission of ERP HW 5. 10% of the cost of ERP package excluding hardware cost on completion of OEM Audit of ERP SAFAL 6. 5% of the cost of ERP package excluding hardware cost on completion of Security Audit	The bidder to comply to the conditions/ requirements on page 463 to 505 of RFP.	HPE
12.	RFP Page 4636 of 505	2.9 Final Acceptance and Go-live	Bidder request to change payment milestone as Balance 10% of Civil and 10% of I&C charges of HW/SW of DC,DRDC and NSDC on Final Go-live  Also, any delay in Go-live for the reason not attributable to bidder, payment shall be made on showing readiness for Go-live from bidder.	The bidder to comply to the conditions/ requirements on page 463 to 505 of RFP.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
13.	Annexure I to Appendix F - Note to SLAs - (iv) and (v)	<p>(iv) The total deduction per quarter shall not exceed 20% of the total QP value.</p> <p>(v) Two consecutive quarterly deductions amounting to more than 20% of the QPs on account of any reasons will be deemed to be an event of default and termination</p>	We request that the maximum penalty be capped to 3% of the QP value as 20% is high. Accordingly, we request that the event of default scenario be triggered only if the penalty reaches 3% of QP for 2 consecutive quarters	The bidder to comply to the conditions/ requirements at Appendix-F on page 428 of RFP.	<b>HPE</b>
14.	Appendix H - 1.3.7	The schedule for payments will be based on the Buyers requirements, enumerated at succeeding Paragraphs. The summary of delivery schedule and payments to be made are specified at Annexure V to this Appendix H.	We request addition of a provision that all payments to the bidder be made within 30 days from the date of raising of the invoice. This is based on the understanding that invoices will be raised after acceptance goods/services.	The bidder to comply to the conditions/ requirements at 1.3.7 on page 443 of RFP.	<b>HPE</b>
15.	Appendix H - 1.3.11	Post completion of warranty period, Quarterly payments for AIAMC will be made by PCDA/ CDA on submission of User clearance certificate through issue of cheque/ ECS.	We request addition of a provision that all quarterly payments to the bidder be made within 30 days from the date of raising of the invoice. This is based on the understanding that invoices will be raised after acceptance goods/services.	The bidder to comply to the conditions/ requirements at 1.3.7 on page 444 of RFP.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
16.	Appendix H - 6	<p>In the event of the Bidder's failure to submit the Documents, supply the stores/ goods, perform services, conduct trials, installation of equipment, training and MET as per schedule specified in this contract, the BUYER may, at his discretion withhold cost of the specific lot/batch or 1% of the Project cost, whichever is higher, until the completion of the contract. The BUYER may also deduct from the SELLER as agreed, liquidated damages to the sum of 1/100 of the delay percentage {Delay percentage = (Period of Delay in Delivery in Weeks) x 100 / (Delivery Period in weeks as per contract)} of the Base Contract Price of the delayed/ undelivered stores/ services mentioned above for every week of delay or part of a week, subject to the maximum value of the Liquidated Damages being not higher than 10% of the contract price of the value of delayed stores/ services (Any extension given by the Buyer for delay attributable to Buyer or Force Majeure Clause to be factored in delivery period).</p>	<p>We request that the maximum LD cap be reduced from 10% to 3% of the delayed goods as 10% is quite high.</p>	<p>The bidder to comply to the conditions/ requirements at 6 on page 446 of RFP.</p>	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
17.	Appendix H - 7	<p>In case the cumulative downtime exceeds 1.6 (hours) in the (Year), payment will be deducted. The total downtime will be calculated at the end of the financial year and payments will be deducted from the payments due for the final quarter of the financial year. The total payments to be deducted will be calculated as follows:-</p> <p>(a) Payments would be deducted on pro-rate basis for the duration, by which cumulative downtime exceeds __ (1.6 hours), as follows:-</p> <p>(i) Per year AIAMC= 'X1 '</p> <p>(ii) Period by which cumulative downtime exceeds the specified cumulative downtime, in days = 'Y1'</p> <p>(Hi) Payment Deduction = 'Z1'</p> <p>Where Z1 = [(X1/ Number of hours in the year) * Y1]</p> <p>(b) In addition, damages would be deducted to the sum of 0.1% of the per annum AIAMC cost per day, for the duration, by which cumulative downtime exceeds the maximum permissible cumulative downtime per quarter/ halfyear/ year, subject to the maximum value of this</p>	<p>We request that the damages be capped to 3% of the annual AIAMC cost as 5% is quite high.</p>	<p>The bidder to comply to the conditions/ requirements at 7 on page 446 of RFP.</p>	HPE



Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
		damages not being higher than 5% of the annual AIAMC cost.			
18.	Appendix K - 6	The Seller undertakes that he has not given, offered or promised to give, directly or indirectly any gift, consideration, reward, commission, fees brokerage or inducement to any person in service of the Buyer or otherwise in procuring the Contracts or forbearing to do or for having done or for borne to do any act in relation to the obtaining or execution of the Contract or any other Contract with the Government for showing or forbearing to show favor or disfavor to any person in relation to the Contract or any other Contract with the Government. Any breach of the aforesaid undertaking by the seller or any one employed by him or acting on his behalf (whether with or without the knowledge of the seller) or the commission of any offence by the seller or anyone employed by him or acting on his behalf, as defined in Chapter IX of the Indian Penal Code, 1860 or the Prevention of Corruption Act, 1988 or any other Act enacted for the prevention of corruption shall entitle the	We request that the bidder be given a chance to be heard before any decision is taken as the ramifications of a decision on the bidder is quite huge.	Before taking any decision in this regard, bidders point will be heard.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
		Buyer to cancel the contract and all or any other contracts with the seller and recover from the seller the amount of any loss arising from such cancellation. A decision of the buyer or his nominee to the effect that a breach of the undertaking had been committed shall be final and binding on the Seller.			
19.		New clause	We request that the following clause be added to the contract for the purposes of limiting the liability of the bidder:- <i>To the full extent permitted by law, the Bidder shall not be liable to the Buyer in respect of any Claim for loss of profits, business, revenue, anticipated savings, goodwill, data or contracts or any type of special, indirect, economic, punitive or consequential loss (including loss or damage suffered as a result of any claims brought by a third party) even if such loss was reasonably foreseeable or the Bidder had been advised of the possibility of the Bidder incurring the same. The Bidder's cumulative liability to Buyer for all claims made under or in connection with this contract whether arising under contract (including under any indemnity), negligence or any other tort, under statute or otherwise at all will not exceed the total contract value in aggregate.</i>	The bidder to comply to the relevant conditions/ requirements of RFP.	<b>HPE</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
20.		New clause	<p>We request addition of the following clause as a new clause:</p> <p><i>The bidder and its sub-contractors will own all IPR in any materials, methodologies, processes, techniques, tools, forms, templates, and Software (collectively "Materials") that are:</i></p> <p><i>i) owned or licensed by the Bidder, its subcontractors, or their respective affiliates prior to the effective date of the Contract;</i></p> <p><i>ii) developed by Bidder, its subcontractors, or their respective affiliates whether developed during or independently of performance of the Contract; and/or,</i></p> <p><i>iii) modifications, enhancements, and derivative works of the Materials.</i></p>	The bidder to comply to the relevant conditions/ requirements of RFP.	HPE
21.	Page 459, Annexure V to Annexure H, Delivery Schedule and Stages of payment, Section 2.4.1	Delivery of all IT Hardware and Software by T0+12 months	As per section 2.3.9, the DC build will be accepted only by T0+19 months. Kindly confirm the location where these materials should be delivered as the same can't be delivered to an area under construction	Bidder to keep the delivered hardware in Closed, locked containers at land provided by ICG.	HPE
22.	Page 459, Annexure V to Annexure H, Delivery Schedule and Stages of payment, Section 2.4.2	Completion of installations and commissioning of all hardware and software	Installation and commissioning activities cannot be taken up until the datacenter is fully ready. Hence the timelines should be from the time of acceptance of the datacenter build. Considerable time should also be allowed for shifting of hardware from designated delivery locations to the DC/DR/NDC	The bidder to comply to the conditions/ requirements at para 2.4.2 on page 459 of RFP.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
23.	Page 459, Annexure V to Annexure H, Delivery Schedule and Stages of payment, Section 2.6.1	Delivery of ERP licences and development hardware for ERP by T0+6 months	Kindly confirm the locations where the hardware should be delivered and the development activities should be taken up	Bidder to keep the delivered hardware in Closed, locked containers at land provided by ICG (Mahipalpur, Delhi for DC and Mangalore for DRDC). However, development of ERP should be carried out by Bidder at their own premises. ICG team will review the developmental activities.	HPE
24.	2 (c ), Page 2	(c) The DCG project will be under 02 yrs warranty followed by 03 yrs AIAMC.	Most of the IT equipment available with 3 year warranty. Request you to please consider 3 Year warranty followed by 2 Years AMC	The bidder to comply to the conditions/ requirements at para 2(c) on page 2 of RFP.	HPE
25.	395/ 253	In consideration of the factors brought out in the preceding paras, requirement of following technical manpower is recommended for duration of 05 years	We understand that manpower is mandatorily required however clause mentions as "recommended". Please confirm.  Request clarification	Minimum manpower is mentioned in RFP however bidder needs to ensure that appropriate resources are deployed to meet the requirements, service window and SLAs defined in RFP	HPE
26.	395/ 253	Manpower	Please clarify on shift timing and working days for given resources types  Request clarification	The manpower requirement are worked out for manning the installation on 24X7X365 basis and considering each Shifts of standard 8 hrs with day shift fixed 0900 to 1700h.	HPE
27.	398/ 257	Training Requirement	Please clarify if training is to be provided by respective OEM/ OEM certified trainers Request clarification	Training to be provided by OEM/ OEM certified trainers	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
28.	500	<p>12. Functional ERP consultant, L3 level, OEM Certified, 05 years' experience, 03 Nos.</p> <p>13. Onsite ERP support engineers, L2 level, OEM Certified, 03 years' experience, 06 Nos.</p> <p>14. Onsite ERP Database Administrator, OEM Certified, 03 years' experience, 02 Nos.</p> <p>15. Onsite ERP system engineer (02 Nos.), Middleware/ Cloud Automation (02 Nos.) OEM Certified, 03 years' experience</p>	AMC manpower is required clarification for the quantity mentioned in description also	Bidder to provide ERP manpower as per para 255 on page 296 of RFP.	HPE
29.	414	The Bidder would be bound by a condition in the contract that he is in a position to provide product support for the software, licences, stores, assemblies/ subassemblies, spares and consumables, Special Maintenance Tools (SMT)/ Special Test Equipment (STE) subcontracted from other agencies/ manufacturer in terms of maintenance, materials and spares for a minimum period of seven years including warranty as per RFP after the <b>acceptance of the project</b> by the Buyer.	The project final acceptance will take 2 years from the signing of contract. Product life support for another 7 years (i.e. minimum 9 years from today) will be too long for any leading OEM to provide. As the device components are procured from the other larger chip manufacturers like intel, Broadcom, QUALCOMM, etc, who does not support their components for so long, it will not be possible for OEM to provide support on their devices for this long period. <b>So please ask for 7 year support from signing of the contract or 5 year support from acceptance of the project.</b>	The bidder to comply to the conditions/ requirements at para 1 on page 414 of RFP.	HPE
30.	416/ 7.1	Software upgrades, bug-fixes/ patches will be provided by the Seller at no additional cost	OEMs provide the software upgrade and bug fixes as long as the software and associated hardware product is covered under active AMC. So, Please modify the	The bidder to comply to the conditions/ requirements at para 7.1 on page 416 of RFP.	HPE

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
		during the lifetime of the software.	clause as:  "Software upgrades, bug-fixes/ patches will be provided by the Seller at no additional cost during the lifetime of the software as long as the software and associated hardware product is covered under active AMC."		
31.	Page no. 393 MANPOWER, TRAINING & DOCUMENTATION REQUIREMENTS	250. As Uptime objectives increase so do staffing presence requirements. Besides deciding whether personnel is needed on site 24x7 or some lesser level, the <b>data Centre operator</b> must also decide what level of technical expertise or trade is needed	Please confirm if data centre operator mentioned here will be the selected bidder for implementation and O&M of the scope mentioned in the RFP	Please refer to Para 253 on page 394 of RFP. Bidder to provide the manpower for operations and management of DC, DRDC as specified.	<b>Mahindra Defence</b>
32.	Page no. 393 MANPOWER, TRAINING & DOCUMENTATION REQUIREMENTS	253.1 Onsite manpower support for Data Centre. 253.1.1 Cloud automation, L2, OEM provided	Please confirm if L2, OEM provided manpower should be on OEMs payroll or he/she can be on OEM implementation partner's pay roll.	Please refer to Para 253.1.1 on page 394 and para 253.3 on page 395 the manpower mentioned should be on OEM payroll.	<b>Mahindra Defence</b>
33.	Page no. 395 MANPOWER, TRAINING & DOCUMENTATION REQUIREMENTS	254. Support Level & Exit Management for DC and DRDC 254.2 L1 support engineers shall be a combination of ICG service personnel and SI/ OEM manpower initially trained by specialist L2 engineers as on-job training.	We understand that the qty of L1 manpower mentioned in the table 253.1 and 253.2 are from the bidder side, kindly clarify.	The manpower mentioned at para 253.1 to 253.2 on page no. 394 and 395 has to be provided by the Bidder except manpower mentioned at Sl. 253.1.1 on page 394 and para 253.3 on page 395 thhe L2 manpower should be on OEM payroll.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
34.	Page no. 394 MANPOWER, TRAINING & DOCUMENTATION REQUIREMENTS	MANPOWER, TRAINING & DOCUMENTATION REQUIREMENTS Manpower Requirements	Please specify if there is any minimum Manpower requirement for the Implementation phase ( 24 months ) before Go-Live	Manpower required for the operational purpose of DC & DRDC has been projected in para 253.1 and 253.2. However, manpower required during the implementation phase for development, UAT and proving of the system has to be catered by the bidder.	<b>Mahindra Defence</b>
35.	Page no. 394 MANPOWER, TRAINING & DOCUMENTATION REQUIREMENTS	Onsite manpower support for Data Centre. 253.1.3 Network Engineer for NOC, L2, 24x7 , 1 , Set 253.1.5 Server, Storage, Backup, 24x7 , 1, Set 253.1.7 Security Analyst, L2 , 2 Set	Measuring unit is mentioned as "set" in the manpower requirement table in many places, please specify the exact manpower requirement in numbers.	Manpower required to man the data centre for 24X7X365 is considered as one set. In which maximum shift of one person is eight hours.	<b>Mahindra Defence</b>
36.	Page 456 Annexure V to Appendix H DELIVERY SCHEDULE AND STAGES OF PAYMENT	Scheme for submission and Return of Advance Payment Bank Guarantees: - APBG of equivalent amount to be submitted. APBG is to be returned on pro-rata basis on delivery of each lot batch.	Please indicate schedule of release of APBG at every stage.	The APBG shall be released as per the provisions of DAP-2020 and the extant rules in vogue at the that time. Details shall be included in the contract document.	<b>Mahindra Defence</b>
37.	253,395	In consideration of the factors brought out in the preceding paras, requirement of following technical manpower is recommended for duration of 05 years	We understand that manpower is mandatorily required however clause mentions as "recommended". Please confirm	Manpower mentioned at 253.1 on page 394 is required for 05 years. However same may be extended as required.	<b>Mahindra Defence</b>
38.	253,395	Manpower	Please clarify on shift timing and working days for given resources types	Manpower support will be required for 24X7X365 basis. Shifts will be 0900hrs to 1700hrs and so on in rotation.	<b>Mahindra Defence</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
39.	257,398	Training Requirement	Please clarify if training is to be provided by respective OEM/ OEM certified trainers	Training to be provided by OEM/ OEM certified trainers	<b>Mahindra Defence</b>
40.	2 (c ), Page 2	(c) The DCG project will be under 02 yrs. warranty followed by 03 yrs. AIAMC.	Most of the IT equipment available with 3 year warranty. Request you to please consider 3 Year warranty followed by 2 Years AMC	Refer to Appendix-C on page 406 of RFP, bidder to comply RFP requirement.	<b>Mahindra Defence</b>
41.	Page no. 414, 1. PRODUCT SUPPORT	The Bidder would be bound by a condition in the contract that he is in a position to provide product support for the software, licences, stores, assemblies/ subassemblies, spares and consumables, Special Maintenance Tools (SMT)/ Special Test Equipment (STE) subcontracted from other agencies/ manufacturer in terms of maintenance, materials and spares for a minimum period of seven years including warranty as per RFP after the <b>acceptance of the project</b> by the Buyer.	The project final acceptance will take 2 years from the signing of contract. Product life support for another 7 years (i.e. minimum 9 years from today) will be too long for any leading OEM to provide. As the device components are procured from the other larger chip manufacturers like intel, Broadcom, QUALCOMM, etc, who does not support their components for so long, it will not be possible for OEM to provide support on their devices for this long period. <b>So please ask for 7 year support from signing of the contract or 5 year support from acceptance of the project.</b>	The bidder to comply to the conditions/ requirements at para 1 on page 414 of RFP.	<b>Mahindra Defence</b>
42.	Page no. 416, 7.1 All Inclusive Annual Maintenance Contract (AIAMC)	Software upgrades, bug-fixes/ patches will be provided by the Seller at no additional cost during the lifetime of the software.	OEMs provide the software upgrade and bug fixes as long as the software and associated hardware product is covered under active AMC. So, Please modify the clause as:  "Software upgrades, bug-fixes/ patches will be provided by the Seller at no additional cost during the lifetime of the software as long as the software and associated	The bidder to comply to the conditions/ requirements at para 7.1 on page 416 of RFP.	<b>Mahindra Defence</b>



Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
			hardware product is covered under active AMC."		
43.	20	35.1 - Active Technology Obsolescence Management.	<p>35.1 The Bidder/ OEM as applicable will notify the Buyer not less than two years before the closure of its production line about the intention to close production of equipment for provision of purchasing spare parts, before closure of the said production line.</p> <p>IT hardware OEMs provide 6 months of notification before putting the device on End-Of-Sale, so please relax the period to six months.</p>	The bidder to comply to the conditions/ requirements at para 35.1 on page 20 of RFP.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
44.	414	1. PRODUCT SUPPORT	<p>The Bidder would be bound by a condition in the contract that he is in a position to provide product support for the software, licences, stores, assemblies/ subassemblies, spares and consumables, Special Maintenance Tools (SMT)/ Special Test Equipment (STE) subcontracted from other agencies/ manufacturer in terms of maintenance, materials and spares for a minimum period of seven years including warranty as per RFP after the acceptance of the project by the Buyer.</p> <p>The project final acceptance will take 2 years from the signing of contract. Product life support for another 7 years (i.e. minimum 9 years after award of contract) will be too long for any leading OEM to provide. As the device components are procured from the other larger chip manufacturers like intel, Broadcom, QUALCOMM, etc, who does not support their components for so long, hence it will not be possible for OEM to provide support on their devices for this long period of 9 years. So please consider 7 years support from signing of the contract or 5 year support from acceptance of the project.</p>	The bidder to comply to the conditions/ requirements at para 1 on page 414 of RFP.	<b>L&amp;T</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
45.	416	7.1 All Inclusive Annual Maintenance Contract (AIAMC)	<p>Software upgrades, bug-fixes/ patches will be provided by the Seller at no additional cost during the lifetime of the software.</p> <p>OEMs provide the software upgrade and bug fixes as long as the software and associated hardware product is covered under active AMC. So, Please modify the clause as:</p> <p>"Software upgrades, bug-fixes/ patches will be provided by the Seller at no additional cost during the lifetime of the software as long as the software and associated hardware product is covered under active AMC."</p>	The bidder to comply to the conditions/ requirements at para 7.1 on page 416 of RFP.	<b>L&amp;T</b>
46.	395/254. 5utmort Level & Exit Management for DC and DRDc	254.2 LI support engineers shall be a combination of ICG service personnel and SI/ OEM manpower Initially trained by specialist 1.2 engineers as on-job training.	How many ICG ICG service personnel will be allocated for L1 (Helpdesk)	The manpower mentioned at para 253.1 to 253.2 on page no. 394 and 395 has to be provided by the Bidder. Positioning of ICG staff will be decided during implementation phase	<b>TCS</b>
47.	395/253	In consideration of the factors brought out in the preceding paras, requirement of following technical manpower is recommended for duration of 05 years	We understand that manpower is mandatorily required however clause mentions as "recommended". Please confirm	The manpower mentioned at para 253.1 to 253.2 on page no. 394 and 395 has to be mandatorily provided by the Bidder.	<b>TCS</b>
48.	395/253	Manpower	Please clarify on shift timing and working days for given resources types	Manpower support will be required for 24X7X365 basis. Shifts will be 0900 to 0500 and so on in rotation.	<b>TCS</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
49.	396/, Manpower Requirement for SAFAL ERP.	255. Following technical manpower will be required for duration of 05 years:-	Please conform that these resources are to be provided at Delhi, in case some other location kindly specify.	Locations for positioning of manpower has been provided at para 253.1 on page 394 for DC, Para 253.2 on page 394 for DRDC and para 255 on page 396 for ERP.	TCS
50.	398/257	Training Requirement	Please clarify if training is to be provided by respective OEM/ OEM certified trainers	Training to be provided by OEM/ OEM certified trainers	TCS
51.	406/Appendix C (Refers to Para 12 & 34 of REP and Para 1 of Appendix `F) WARRANTY CLAUSE	6. HIPS Server+ Clients TrendMicro Deep Security	<p><b><u>Kindly amend the below clause as:</u></b></p> <p>1. The SELLER warrants that the goods/services supplied under this contract conform to technical specifications prescribed and shall perform according to the said Technical Specifications.</p> <p>2. The Seller warrants for a period of 24 months from the date of Installation and commissioning <del>or final go-Live, whichever is later</del>, that the goods/ stores supplied under the contract (All civil work, DG sets, UPS &amp; associated equipment, hardware and software installed at the Data Centre, Near Line Dab Centre &amp; Disaster recovery Data Centre Including air-conditioning and power backup, hardware installed onboard ships, neNvotidng hardware, network links and the ERP package) and each component used In the manufacture thereof shall be free from all types of defects/failures (including latent and patent defects).  <b><u>Note: This is subject to standard warranty exclusions and disclaimer</u></b></p>	The bidder to comply to the conditions/ requirements at para 6 on page 406 of RFP.	TCS

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
52.	406/Appendix C (Refers to Para 12 & 34 of REP and Para 1 of Appendix `F) WARRANTY CLAUSE	Enterprise	<b><u>Kindly amend the below clause as:</u></b>  7. In case the complete delivery of the Warranty obligations is delayed <b><u>for reasons solely attributable to the SELLER</u></b> beyond the period stipulated in this contract, then the SELLER undertakes that the warranty period for the goods/ stores shall be extended to that extent	Bidder has to comply with RFP conditions. Warranty shall not be sought for reasons not attributable to the bidder.	TCS
53.	406/ Appendix C Warranty Clause	3 Servers with	Kindly modify the clause to be read as - The Seller warrants for a period of 24 months from the date of Installation and commissioning <del>or final go-live, whichever is later,</del> that the goods/ stores supplied under the contract (All civil work, DG sets, UPS & associated equipment, hardware and software installed at the Data Centre, Near Line Dab Centre & Disaster recovery Data Centre Including air-conditioning and power backup, hardware installed onboard ships, neNvotidng hardware, network links and the ERP package) and each component used In the manufacture thereof shall be free from all types of defects/ failures (including latent and patent defects).	The bidder to comply to the conditions/ requirements at para 3 on page 406 of RFP.	TCS

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
54.	432/ Annexure-III to Appendix-F	General	What are the existing method of training in ICG? What are the different training programs and delivery medium being used now - Hands-on training, e-Learning / Web-based training (WBTs) / Computer-based Training (CBT), classroom training (ILT) or Online Training (virtual ILT)? Please provide more information as possible. <b>[To understand the existing training in ICG]</b>	Existing method is class room instructions. Bidder to provide training as per Annexure-III to Appendix-F of RFP	TCS
55.	432/ Annexure-III to Appendix-F	All training requirements such as training aids, projection system, complete equipment with accessories/ optional, technical literature, spares, test equipment/ test set up, charts, training handouts, power point presentations, Computer Based Training (CBT), Documentation, Simulators etc will be catered by the Bidder.	For Computer-based Trainings (CBT), let us know the type of the artifacts needed: 1). WBTs (Explains the process overview and key features of different modules) OR 2). Simulations (Step-by-step procedural interactive simulations for various functionalities) OR 3). Nano videos (Short videos which will include a scenario based learning for the end users). <b>[If CBT content development is in scope then we will have to onboard the respective team].</b>	Bidder can suggest training tools to provide training as per para 2.2 on page 433 of RFP. CBT is one the mode of training. CBT can not be the primary mode of training.	TCS
56.	432/ Annexure-III to Appendix-F	All training requirements such as training aids, projection system, complete equipment with accessories/ optional, technical literature, spares, test equipment/ test set up, charts, training handouts, power point presentations, Computer Based Training (CBT), Documentation, Simulators etc will be catered by the Bidder.	Please confirm, If CBT artifacts are to be in Machine Voiceover or Human Voiceover? <b>[It is required to onboard/ not onboard the Voiceover Vendor and for estimates]</b>	Bidder can suggest training tools to provide training as per para 2.2 on page 433 of RFP	TCS

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
57.	432/ Annexure-III to Appendix-F	All training requirements such as training aids, projection system, complete equipment with accessories/ optional, technical literature, spares, test equipment/ test set up, charts, training handouts, power point presentations, Computer Based Training (CBT), Documentation, Simulators etc will be catered by the Bidder.	Apart from English, are there any other languages in scope for the content / training delivery? <b>[For scope and estimates]</b>	NO	TCS
58.	432/Annexure-III to Appendix-F	All training requirements such as training aids, projection system, complete equipment with accessories/ optional, technical literature, spares, test equipment/ test set up, charts, training handouts, power point presentations, Computer Based Training (CBT), Documentation, Simulators etc will be catered by the Bidder.	Is there a preference on the tools and technologies developing CBT material? Will DCG provide appropriate eLearning tools or TCS can suggest a tool? <b>[Understand tool preference to develop CBT content]</b>	Bidder can suggest training tools to provide training as per para 2.2 on page 433 of RFP	TCS

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
59.	433/Annexure-III to Appendix-F	ERP Functional Training (End User). Functional training would be provided to all ERP users across ICG. This training would focus on user specific requirements and address the daily working and reporting requirement In the ERP solution. A refresher training of all the functions needs to be provided to update the knowledge of ERP solutions.	What is the approx. count of Key Users and End Users who need to be trained?	Training on ERP to be provided as per para 2.2 on page 433 of RFP.	<b>TCS</b>
60.	458//Annexure V to Appendix IA	Each Milestone payment is linked to submission of ABG of equivalent amount	Each Milestone payment is linked to submission of ABG of equivalent amount is not acceptable. These milestone payments are not advance payment and bidder is not liable to submit any ABG against these payments. Pls delete this requirement.	The conditions at Annexure V on page 458 of RFP are to be complied.	<b>TCS</b>



Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
61.	465/ /Annexure V to Appendix IA	Balance 10% of the cost of civil works Balance 15% cost of the hardware/ software for DC/DRDC/ NLDC/ Ships/ ERP and balance 10% of I&C charges. Balance of 15% of cost of ERP package excluding ERP HW cost - to be paid on final Golive	All Balance payment percentages of each activity must not be withheld until Go-live as bidder is required to submit a performance BG of 5%. Holding payment milestone of each activity increases the exposure for project and adversely affects the cashflow. Hence request to modify the payment terms such that only 5% of each activity is withheld and linked to final go-live.	The bidder to comply to the conditions/ requirements at Annexure V on page 465 of RFP.	TCS
62.	466/ /Annexure V to Appendix IA	Note - Reimbursement of taxes and duties will be as per rates and amounts indicated in me commercial bid/contract or as per actual whichever is lower.	Pls modify it to be read as - Reimbursement of taxes and duties will be as per rates and amounts indicated in the commercial bid/contract or as per actuals <u>as the time of invoicing whichever is lower.</u>	The clause is as per para 1.5.9 on page 263 of DAP-2020. Bidder to comply to RFP conditions	TCS
63.	432, 397 /TRAINING AGGREGATES (Appendix F)	257. Training for all identified staff to be conducted for various roles of administration, support (L1/L2) of Main Data Centre, DR Data Centre, Networking and SAFAL ERP users to enable them to effectively operate and perform the relevant services using the software. The training content will have to be relevant to the target trainees	Please specify clearly the following with respect to training 1/ In case there is a travel for imparting training to another city the travel and boarding/lodging cost for the trainers will be borne by the department. 2/ Please agree that online training will be preferred wherever it is possible. 3/ Training infrastructure like training rooms with tables, chairs, white boards/flipcharts etc will be provided by the department 4/ Please agree that no hardcopies will be	All expenses borne out of training to be catered by SI as per para 1 on Page No. 432 of RFP	TCS

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
		<p>depending upon the role. This training shall be designed to give the operators and maintainers (L1 &amp; L2) necessary knowledge and skills to operate &amp; maintain-Data Centre, Disaster Recovery Data Centre,</p> <p>Training for all identified staff to be 'conducted for various roles of administration, support (L1/ L2) of Main Data Centre, DR Data Centre, Networking and SAFAL ERP users to enable them to effectively operate and perform the relevant services using the software. The training content will have to be relevant to the target trainees depending upon the role. This training shall be designed to give the operators and maintainers (L1 &amp; L2) necessary knowledge and skills to operate &amp; maintain-Data Centre, Disaster Recovery Data Centre, SAFAL ERP Package and associated hardware. The syllabus of the training should be defined by the Bidder In consultation with the Buyer at least six months prior offering the system for acceptance/ expiry of the delivery timeline.</p>	<p>distributes to the trainees, only digital content will be provided.</p>		

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
		<p>All training requirements such as training aids, projection system, complete equipment with accessories/ optional, technical literature, spares, test equipment/ test set up, charts, training handouts, power point presentations, Computer Based Training (CBT), Documentation, Simulators etc will be catered by the Bidder.</p> <p>SAFAL ERP Package and associated hardware The syllabus of the training should be defined by the Bidder In consultation with the Buyer at least six months prior offering the System for acceptance/ expiry of the delivery timeline.</p> <p>All training requirements such as training aids, projection system, complete equipment with accessories/ optional, technical literature as per Annentre-H of Appendix F, spares, test equipment/ test set up, chart, training handouts, power point presentations, Computer Based Training (U3i), Documentation, Simulators etc. will be catered by the Bidder.</p> <p>Requirement of training aggregate is given at Annewre-171 of Appendix F.</p>			

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
64.	12	13	In Service of the deliverables should be minimum 7 years for IT HW and software, 15 years for DG sets, UPS & associated equipment & 20 years for Civil Infrastructure.  Is this including from the date of contract	From the date of go-live	<b>BEL</b>
65.	Delivery and signed off report	General	Scanned copy of the delivery, installation document will be shared with the customer on mail. Customer will provide the signoff for delivered locations billing (Site wise Billing) within 48 hours.	Payment terms and conditions are as per Appendix 'H' of RFP	<b>Airtel</b>
66.	First level troubleshooting	General	In case of connectivity down, FLT will be done by the customer SPOC available at site. No downtime will be attribute to bidder incase the local person is not available at site or on site access is not available for the bidder engineer to check after the FLT.	Ticket will be raised only after FLT done by ICG SPOC either by his own or after taking advice of NOC staff. If the reason for sit-down is attributable to ICG, ticket will not be raised and SLA starts, the moment, ticket is raised for a downtime.	<b>Airtel</b>
67.	SLA calculation	General	SLA/downtime calculation will be done basis the trouble ticket raised by the customer with the bidder central helpdesk. Bidder will share the monthly Uptime report with the customer where all the SR will be captured along with detailed RFO/RCA.	Affirmative	<b>Airtel</b>
68.	Training	General	Training will be conducted at central location proposed by the customer. Customer has to made all the arrangement for the trainees at his location.	Training to be imparted as per Annexure-III to Appendix 'F' of RFP.	<b>Airtel</b>
69.	SLA Exemption	General	NO SLA penalty will be applicable on bidder incase the location is down due to 1) Power issue at customer end. 2) Equipment damaged due to water seepage	Affirmative	<b>Airtel</b>

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
<b>70.</b>	<b>Additional queries raised during pre-bid meeting</b>				
71.	General		Most of the OEMs are giving one year warranty for ICT products. Therefore, warranty and AIAMC clause may be amended to 01 year warranty instead of 02 year warranty.	In many case including non-ICT projects, global OEMs are providing warranty for a period decided by themselves. However, system integrators are complying with warranty terms framed in the contract. Therefore, warranty requirement mentioned in RFP may be complied by all the bidders.	<b>Sara Infotech</b>
72.			What are the criteria to consider go-live of the project?	Go-live is clearly defined in RFP. Bidder requested to go through para 4(d) on page no. 4 & 5 of RFP.	<b>HPE</b>
73.	2.c	The DCG project will be under 02 yrs warranty followed by 03 yrs AIAMC.	Generally the warranty is 3 years and 2 years AMC, please change the same	Go-live is clearly defined in RFP. Bidder requested to go through para 4(d) on page no. 4 & 5 of RFP.	<b>HPE</b>
74.	465	Price Bid Format	<u>Line item 2.16- ERP</u> 05 years support including ATS (02-year warranty + 03 years AIAMC).  Payment terms for 05 years ERP support not mentioned in payment scheduled, please give the clarity on this.	The bidder to comply to the conditions/ requirements at para 2 on page 465 of RFP.	Xtranet
75.	465	Price Bid Format	<u>Line item 2.13- ERP</u> Licenses cost.  We request to please release the 100% payment of ERP License after delivery & Installation of Licenses.	The bidder to comply to the conditions/ requirements at para 2 on page 465 of RFP.	Xtranet

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
76.	465	Price Bid Format	<p><u>Line item H-</u> Documentation as specified at Appendix 'A</p> <p>Payment terms for Document Cost not mentioned in payment scheduled, please give the clarity on this.</p>	The bidder to comply to the conditions/ requirements at para 2 on page 465 of RFP.	Xtranet
77.	456	DELIVERY SCHEDULE AND STAGES OF PAYMENT	<p><u>Activity (2.6.4) - Delivery, Installation and Commissioning of ERP hardware</u>  <u>Timeline - T0 + 06-14 month</u>  <u>Scheme for Payment-</u> 70% cost of the ERP hardware and 75% of I&amp;C charges.</p> <p>Line item for I&amp;C charges of ERP hardware not available in BOQ please make the provision for the same in BOQ and modify the payment terms accordingly.</p> <p>As per the payment terms 85% payment of ERP hardware will be released on Delivery, Installation and Commissioning of ERP hardware (70%) and Final Acceptance &amp; Go-live (15). Please clarify when remaining 15% payment of ERP hardware will process.</p>	The bidder to comply to the conditions/ requirements at Annexure V on page 456 of RFP.	Xtranet
78.	456	DELIVERY SCHEDULE AND STAGES OF PAYMENT	<p><u>Activity (2.6)- ERP</u>  <u>2.6.1 - Finalisation of SRS documents for ERP SAFAL. Delivery of ERP licenses and development hardware for ERP.</u>  <u>2.6.2 - Completion of First Pilot implementation demonstration of ERP SAFAL/ MVCR.</u>  <u>2.6.3 - Second Pilot implementation demonstration of ERP SAFAL/ MVCR.</u>  <u>2.6.5 - Completion of OEM audit of ERP</u></p>	The bidder to comply to the conditions/ requirements at Annexure V on page 456 of RFP.	Xtranet

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>SAFAL.  <u>2.6.6</u> - Completion of security audit of ERP  SAFAL.  Final Acceptance and Go-live</p> <p>As per the payment terms 85% payment of ERP package excluding ERP HW cost will be released as per below:  2.6.1 - Finalisation of SRS documents for ERP SAFAL. Delivery of ERP licenses and development hardware for ERP - 20% payment  2.6.2 - Completion of First Pilot implementation demonstration of ERP SAFAL/ MVCR - 15% Payment  2.6.3 - Second Pilot implementation demonstration of ERP SAFAL/ MVCR - 15% Payment  2.6.5 - Completion of OEM audit of ERP SAFAL - - 10% Payment  2.6.6 - Completion of security audit of ERP SAFAL - 10% Payment  Final Acceptance and Go-live - 15 % Payment</p> <p>Please clarify when remaining 15% payment of ERP package excluding ERP HW cost will process.</p>		
79.	253	395	<p>In consideration of the factors brought out in the preceding paras, requirement of following technical manpower is recommended for duration of 05 years.</p> <p>We understand that manpower is mandatorily required however clause</p>	<p>Minimum manpower is mentioned in RFP however bidder needs to ensure that appropriate resources are deployed to meet the requirements, service window and SLAs defined in RFP</p>	<b>Ishaan</b>

<b>Ser</b>	<b>RFP reference</b>	<b>Content of RFP requiring clarification</b>	<b>Points for Clarification / Query by Bidder</b>	<b>Response/ Clarification</b>	<b>Vendor</b>
			mentions as "recommended". Please confirm		
80.	253	395	Manpower  Please clarify on shift timing and working days for given resources types	Manpower support will be required for 24X7X365 basis. Shifts will be 0900 to 0500 and so on in rotation.	<b>Ishaan</b>
81.	257	398	Training Requirement  Please clarify if training is to be provided by respective OEM/ OEM certified trainers	Training to be provided by OEM/ OEM certified trainers	<b>Ishaan</b>



**OEM PRE-BID QUERIES**

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
1	208/504	C30- Endpoint Protection, End Point Detection & APT.	81.1 Cloud Workload Protection  Request you to please confirm the number of VMs to be secured by Workload Protection solution	Total Number of VMs are approx. 1000 for DC, DRDC and NLDC.	Trend Micro
2	208/504	C30- Endpoint Protection, End Point Detection & APT.	81.1 Cloud Workload Protection  Request you to please confirm if customer will provide the pre-requisite (Compute, Storage, Operating System, Database etc) required for implementing Cloud Workload Protection solution	Bidder has to plan for the requirement	Trend Micro
3	208/504	C30- Endpoint Protection, End Point Detection & APT.	81.1 Cloud Workload Protection  Request you to please confirm if the servers at DRDC site are planned to be used as active nodes or shall we consider it as complete DR site ?	DR Site may be used as recovery site, and we may use it as active site depending on the future requirement for application availability.  Please plan a separate setup for DC and DR with local site level redundancy.	Trend Micro
4	208/504	C30- Endpoint Protection, End Point Detection & APT.	81.1 Cloud Workload Protection  Request you to please confirm if customer will provide the pre-requisite (Compute, Storage, Operating System, Database etc) required for implementing End Point Protection solution	Bidder has to plan for the requirement	Trend Micro

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
5	210/504	C30- Endpoint Protection, End Point Detection & APT.	81.23 Anti Advance Per  Request you to confirm if the Images of Operating System for Sandboxing solution will be provided by Customer or Bidder has to plan for the persistent Threat	Bidder has to plan for the requirement	Trend Micro
6	210/504	C30- Endpoint Protection, End Point Detection & APT.	81.23 Anti Advance Persistent Threat  Request you to confirm if we should assume the Anti APT solutions(Hardware) to be deployed at each Data Center site i.e. DC , DRDC and NDC. As per the tender , each data center shall be prepared to manage the services with equal capacity planning.	Bidder to plan the Anti APT solution for each Data center site i.e. DC , DRDC and NDC.	Trend Micro
7	210/504	C30- Endpoint Protection, End Point Detection & APT.	81.23 Anti Advance Persistent Threat  Request you to please confirm if we should plan the Anti APT solution deployments with redundant modules/hardware at each site /data center. We will architect the solution accordingly	Yes , the redundancy to be ensured at each data center.	Trend Micro
8	210/504	C30- Endpoint Protection, End Point Detection & APT.	81.23 Anti Advance Persistent Threat  Request you to please confirm if we should plan the standalone sandbox appliance at each data center , so each data center has its own sandboxing capability for zero day prevention.	Yes, standalone sandbox capability is to be planned at each data center , so there is no interdependency between the sites for zero day protection.	Trend Micro

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
9	210/504	C30- Endpoint Protection, End Point Detection & APT.	<p>81.23 Anti Advance Persistent Threat</p> <p>Request you to please confirm if each data center site will have internet connectivity ? Or shall we plan to deploy the solution in completely air gap network ?</p>	Bidder to plan the solutions considering the air gap network.	Liferay
10	Page 389	SAFAL-ERP: NON-FUNCTIONAL REQUIREMENTS	<p>Based on our experience and understanding of the project, an Enterprise Portal will be an integral component to act as a front facing web portal for all the integrated ERP modules so that users can access the same based on Role Based Access Control and personalized experience.</p> <p>Also the non Functional requirements are majorly for the portal part. Hence we suggest to specifically mention specifications for Enterprise Open Source Portal.</p> <p>Based on industry standards, we are suggestion some specifications for inclusion <b>[our suggestion: Please add the following specifications for Web Portal:</b></p> <p><b>1.) The key criteria are to ensure proper and effective dissemination and management of information. This would require a well-designed, well maintained enterprise edition OSS (Open source Software) with enterprise level support from respected OEM at the core of the solution proposed.</b></p> <p><b>2.) Bidder should submit technical details along with the MAF (Manufacture Authorization Form) from the respective OEM of the proposed solution with</b></p>	Vendor to quote as per RFP conditions.	Liferay

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>necessary supporting documents along with the bid.</p> <p>3.) Inherently support localization features and multi-lingual support with English and Hindi language support being mandatory. Support of other Indian languages is desirable.</p> <p>4.) Built on a platform that have natively integrated Content Management System (CMS), Portal, Workflow Engine, Form Engine, Digital Asset &amp; Media Management and Enterprise Search capability as a unified system.</p> <p>5.) Support Social media integration and capable multiple channel information delivery – webcasts, RSS feeds, etc Have Inherent, inbuilt high performance, customizable, user friendly enterprise search facility which can search across other applications outside the platform also and should be configurable through admin interface. The search should be able to find content through HTML pages, word files, PDF files, excel files, etc.</p> <p>6.) Be responsive in nature and whatever being developed should be responsive in nature. The solution should have a simulation capability for checking the responsiveness at the time of development itself.</p> <p>7.) Support features that facilitate SEO enabling the website to figure high in results of various search engines Have a robust user management and security management features including</p>		

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>password policies, user reminder settings and complete login security procedures.</p> <p>8.) Support publishing workflows – Document (Order, circular, notice, etc.) will be uploaded by the department user. This will be approved by Head of Department. On approval it'll be visible to a group of moderators, who can then publish the same to the website. Audit logs have to be maintained of all the updations of the website.</p> <p>9.) There must be custom publishing workflows which can be created using drag and drop capability of workflow engine of the underlying platform CMS of the solution should be headless in nature.</p> <p>10.) Support functionality to register with the website for mobile updates and email alerts.</p> <p>11.) Support customizable discussion forum for public consultation</p> <p>12.) The Platform should be natively integrated with Digital &amp; Media Management System for storing all the underlying assets like images, videos etc. required in process. The Digital Asset Management should support adaptive media streaming based on the type of channel through which the portal is accessed.</p> <p>13.) Support facilities like – event calendar, hit counter, level content structure (main link, sub links and so on), alerts, banners, photo gallery, meta tags, meta titles, automated chat facility for common</p>		

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>queries, XBRL support, Blog feed, etc. 14.) The platform should have essential tools for collaboration including discussion forums, blogs, wikis, and social components. The collaboration capability helps in better visitor engagements by enabling surveys, feedbacks, etc. 15.) GIGW and W3C for portal development</p>		
11	Page 389	SAFAL-ERP: NON-FUNCTIONAL REQUIREMENTS	<p>We believe a Content Management will significantly help in creating the SAFAL ERP Web Portal by drag and drop page and content creation but we do not find specifications for the same in RFP. Hence we humble request to include the suggested specifications. <b>[OUR SUGGESTIONS: Please add the following specifications for CMS:</b></p> <ul style="list-style-type: none"> <li>a. Proposed tool should have the quicker mechanism of deploying, managing, editing, storing, preserving &amp; Delivering the content</li> <li>b. Should support Single sign-on</li> <li>c. Should have versioning feature to allow track new versions as well as roll back to previous versions</li> <li>d. Should provide support/interoperable with multiple databases like Oracle/SQL Server/ DB2 / MySQL etc.</li> <li>e. Proposed tool should have facility of one click page creation &amp; quick site creation</li> <li>f. Proposed tool should allow to combine web content alongside web application portlet, widgets</li> <li>g. Proposed tool should have capability to</li> </ul>	Requirements are customised to meet specific service requirements. Bidder to comply to RFP conditions / equirements/ clauses.	Liferay

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>administer user defined contents including reports, videos, audios etc.</p> <p>h. Should be able to address both structured and unstructured data</p> <p>i. Proposed tool should have facility to automatically generate a hierarchical site map for the entire portal</p> <p>j. Proposed tool should have faceted search criteria</p> <p>k. The proposed tool should capability of dynamic keyword tagging to web content</p> <p>l. The proposed tool should make content pages instantaneously searchable by external search engines.</p> <p>m. The proposed tool should be able to leverage in a SOA architecture as well as used for simple integration via REST or RSS Subscription</p> <p>n. The proposed tool should have dynamic virtual hosting capability and friendly URL feature</p> <p>o. The proposed tool should have internal workflow engine</p> <p>p. The proposed tool should have workflow based lifecycle from content creation to review and approval, and finally publishing of the content, as per Access Control to users and groups</p> <p>q. The proposed tool should be capable of search, archiving and versioning of the content</p> <p>r. The proposed tool should have capability of live page editing and scheduling without affecting published content</p>		

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
			<p>s. The proposed tool should provide all relevant functionalities to provide centralized knowledge base</p> <p>t. The proposed Content Management System (CMS) /DXP should be present in the latest Gartner's Magic quadrant for CMS/DXP.</p> <p>u. Proposed CMS/DXP should have Enterprise Level Licence and support from OEM. Community/Free version of CMS/DXP is not permitted. MAF from the respective OEM should be submitted along with the Bid.</p>		
12	Page 334	Document Management Workflow Management	We would suggest the Document Management and Workflow Management to be in-built capabilities of the Enterprise Portal/ CMS proposed. Thus will reduce too much integrations because these will be available on the same native platform.	Requirements are customised to meet specific service requirements. Bidder to comply to RFP conditions / equirements/ clauses..	Liferay
13		General Query for sizing	Please suggest the number of concurrent users expected per second	Requirements are customised to meet specific service requirements. Bidder to comply to RFP conditions / equirements/ clauses.	Liferay
14		General Query for sizing	Please suggest the number of non-Production environments to be provisioned	Requirements are customised to meet specific service requirements. Bidder to comply to RFP conditions / equirements/ clauses.	Liferay
15		General Query for sizing	Please suggest the DR compute wrt DC	Specification of compute in terms of DC, DRDC and NLDC has been indicated in para 58 on page 104 of RFP and BOM is given at Appendix ' Q' of this RFP.	Microfocus



Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
16	Page No. - 392 Point - 244.1	Integration with ICG IAM (Identity and Access Management) system	While technical requirements ask for IDAM technical capabilities (C28- IDAM Technical Requirement), RFP says applications need to be integrated with Oracle IAM solution.  Is IAM solution with full Identity and Access Management capabilities already available?  If IAM solution already available, it needs to be replaced?	Bidder has to provide the IAM solution and configure.	Microfocus
17	Page No. - 201	C-28- IDAM Technical Requirement	What are the total number of users to be considered for IDAM licensing?	Approx. 16000	Microfocus
18	Page No. - 201	C-28 - IDAM Technical Requirement	What are the total number of applications to be integrated with IDAM solution?	Minimum 20 application needs to be integrated with IDAM solution	Microfocus
19	Page No. - 201	C-28 - IDAM Technical Requirement	Is DR infra for IDAM should also need to be proposed in High Availability	Yes	Microfocus
20	Page No. - 206	C-29 - Privileged Access Management	What are the number of target devices/servers to be onboarded on PAM?	Approx 1000	Microfocus
21	Page No. - 206	C-29 - Privileged Access Management	What are the type of targets which needs to be integrated with PAM.	Approx 1000	Microfocus

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
22	Page No. - 175 Point - 76.2, C25 - SIEM & SOAR	Proposed solution have the ability to natively monitor layer 7 traffic and perform deep packet inspection (DPI). Solution should support full packet capture and should have the ability where download packets can be restricted based on user/group. Proposed solution should not use any SQL or Flat files or RDBMS database for storing logs and events.	<p><b>Justification:</b> SIEM solution collect all the logs generated by the system or application. SIEM cannot generate the logs on behalf of application (security logs) but can capture the security logs from any security devices such as WAF, IDS/IPS, DOS etc.. &amp; then correlate to find out the vulnerabilities, attacks etc.. SIEM solution can integrate with 3rd party Packet capture solution to collect logs, not all SIEM vendor support this feature. Packet capture is altogether a different technology and support by one OEM. Please remove this point from the RFP so other can also comply and bid.</p> <p><b>Change Required:</b> "The solution should have capability to integrate with applications and not restricted to audit or transaction logs. In addition to this, SIEM should be able to capture security logs from any security or network device which are not natively generated by applications."</p>	Bidder to comply to RFP specifications. Mentioned capability is required for this project. Bidder can bring a combination of tools and technologies to meet this requirement in overall solution proposed by bidder.	Microfocus

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
23	Page No. - 178, Point - 76.9 C25 - SIEM & SOAR	Machine learning should be embedded across the platform (SIEM, SBDL). It should empower every user in the SOC with ML. Security analyst to become citizen data scientist i.e. used predefined ML algorithms to detect & predict threats, threat hunters to build their own ML models with steps to build, train and implement model and data scientists should be able to integrate advanced ML frameworks.	<b>Justification:</b> Request you to change the clause to generic language so that other reputed OEMs can participate, as are point is restricting many leading SIEM OEMs <b>Change Required:</b> Solution should be able to utilize Machine learning. It should empower every user in the SOC with ML. Security analyst to become citizen data scientist i.e. used predefined ML algorithms to detect & predict threats, threat hunters to build their own ML models with steps to build, train and implement model and data scientists should be able to <b>configure custom ML models.</b>	Bidder to comply to RFP specifications. Solution should be able to Integrate advanced ML frameworks which will give flexibility and help achieve the outcome. Also, SIEM with advance ML capabilities which enable the user to import custom models or import any additional open source ML models.	Microfocus
24	Page No. - 178, Point - 76.19 C25 - SIEM & SOAR	Proposed solution must be able to create alerts to notify about suspect activities, allowing actions like: enriching data, sending email, sending information to a syslog and exporting a PCAP file that may be accessed via CIFS/SMB/NFS and via dashboard. Solution should provide the ability to choose between capturing all packets and selective packet capture to lower storage requirements	<b>Justification:</b> Request you to change the clause to generic language so that other reputed OEMs can participate, as are point is restricting many leading SIEM OEMs. SIEM is a security solution & collaborate with network security tool to capture information, events from PCAP solution. Hence please consider our request or delete this clause from the RFP. <b>Change Required:</b> Proposed SIEM solution should collaborates with network security tool to capture information, events from PCAP solution	Bidder to comply to RFP specifications Mentioned capability is required for this project. Bidder can bring a combination of tools and technologies to meet this requirement in overall solution proposed by bidder.	Microfocus

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
25	Page No. - 178, Point - 76.23 C25 - SIEM & SOAR	The solution must dynamically learn behavioural norms and identify and report on changes as they occur by baselining the the customer environment and monitoring for changes from a known normal state.	<p><b>Justification:</b> Request you to change the clause to generic language so that other reputed OEMs can participate, as are point is restricting many leading SIEM OEMs</p> <p><b>Changes Required:</b> The solution must be able to detect suspicious behavioural and identify and report on changes as they occur in customer environment and monitoring for changes from a known normal state.</p>	Bidder to comply to RFP specifications. Dynamic learning of behavioural norms, identify and report on changes by baselining the environment and monitoring the changes is all required as part of solution.	Microfocus
26	Page No. - 179 Point - 76.24	Proposed solution should come with out-of-the-box dashboards through which you can see the status of key KPIs over time. Solution should allow you to identify the trends or specific points in time where KPI status changed and drill down to the health page where we can monitor metrics like CPU usage, average memory usage, average datastore latency and average network traffic across all hosts.	<p><b>Justification:</b> SIEM can do Health monitoring of its own components, not for all end devices. This can be achieved easily with NMS or any other network monitoring tool. SIEM is a log management and correlation tool achieve compliance, provide security insight of the entire network &amp; to automate the response. Favouring to only one OEM, Request you to please delete this clause from the RFP, not all SIEM solution offer this as a feature.</p> <p><b>Changes Required:</b> Please delete this Point</p>	Bidder to comply to RFP specifications. Mentioned capability is required for this project. Bidder can bring a combination of tools and technologies to meet this requirement in overall solution proposed by bidder. SIEM should be able to correlate with all the data points in case of any attack to able to pin point the root cause effectively and in timely manner. This helps to reduce the false positive and improve response time.	Microfocus

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
27	Page No. - 180, Point - 76.26 C25 - SIEM & SOAR	Solution must be able to analyse captured traffic and PCAP files simultaneously. The proposed solution must support the decoding of the following network protocols from log data or picking the meta data from network traffic: HTTP, FTP, DNS, MySQL, SMTP, SNMP, SMB, TCP, UDP, NFS, Oracle (TNS), LDAP/ AD, PostgreSQL, Sybase/ SQL Server (TDS), IMAP, POP3, RADIUS, IRC, SIP, DHCP, AMQP, DIAMETER, MAPI	<p><b>Justification:</b> SIEM is a security solution &amp; collaborate with network security tool to capture information, events from PCAP solution. Hence please consider our request &amp; delete PCAP clause from the RFP. Favouring to only one OEM, Request you to please delete this clause from the RFP, not all SIEM solution offer this as a feature.</p> <p><b>Changes Required:</b> Please delete this Point</p>	Bidder to comply to RFP specifications. Mentioned capability is required for this project. Bidder can bring a combination of tools and technologies to meet this requirement in overall solution proposed by bidder.	Microfocus
28	Page No. - 180, Point - 76.33 C25 - SIEM & SOAR	The proposed solution must provide GUI that can easily help to build, built-in or custom machine learning models using the guided experience and should be able to integrate with generic machine learning tools like Jupyter Notebook, tensor flow, pytorch etc.	<p><b>Justification:</b> This point is specific to one OEM. Request you to please make it generic &amp; mention</p> <p><b>Change Required:</b> "The proposed solution must provide Logging and Intelligence to provides capabilities to built custom data models.</p>	Bidder to comply to RFP specifications. Please refer to the clause in RFP. Clause mentioned in query differs from RFP. For ease of use and adoption this capability is required as part of solution.	Microfocus
29	Page No. - 180, C25 - SIEM & SOAR Point - 76.34	The proposed solution should have machine learning platform embedded in the solution that can easily help to build, built-in or create unlimited custom machine learning models using the pre-defined sequence and should be able to integrate with a collection of NLP and classical machine learning libraries, generic machine learning tools like tensor flow, pytorch,R, Python, Scala etc	<p><b>Justification:</b> This point is specific to one OEM. Request you to please make it generic &amp; mention</p> <p><b>Change Required:</b> "The proposed solution must provide Logging and Intelligence to provides capabilities to built custom data models.</p>	Bidder to comply to RFP specifications. Please refer to the clause in RFP. Clause mentioned in query differs from RFP. Machine leaning platform capabilities are required in the solution	Microfocus

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
30	Page No. - 180, Point - 76.35 C25 - SIEM & SOAR	The proposed solution machine learning capabilities must allow addition of custom machine learning algorithms from popular open source libraries like NLP, Python etc.	<b>Justification:</b> This point is specific to one OEM. Request you to please make it generic & mention  <b>Change Required:</b> "The proposed solution must provide Logging and Intelligence to provides capabilities to built custom data models.	Bidder to comply to RFP specifications. Please refer to the clause in RFP. Clause mentioned in query differs from RFP. Machine leaning capabilities are required in the solution	Microfocus
31	Page No. - 180 Point - 76.36 C25 - SIEM & SOAR	The proposed solution machine learning capabilities must includes API access, role-based access controls for machine learning models. The proposed solution should natively have ML capabilities and should not have separate engine/compute requirements for running ML models.	<b>Justification:</b> This point is specific to one OEM. Request you to please make it generic & mention  <b>Change Required:</b> "The proposed solution must provide Logging and Intelligence to provides capabilities to built custom data models.	Bidder to comply to RFP specifications. Machine leaning capabilities are required in the solution. ML capabilities needs be embedded in the solution and shouldn't require any separate compute so that ML algorithm should run simultaneously on the Data lake created by ingesting customer machine data.	Microfocus
32	Page No. - 182 Point - 76.41 C25 - SIEM & SOAR	The proposed SOAR solution should have built in functionality for triage health check failures – perform ping test, gather information (VM status, OS uptime, SCOM status for Windows), and triage issues.	<b>Justification:</b> This point is specific to one OEM. Request you to please make it generic & mention  <b>Change Required:</b> " The proposed SOAR solution should provides enrichment to address mentioned functionality."	Bidder to comply to RFP specifications. Mentioned capability is required in solution to run the operations efficiently. Triaging is very basic feature of SOAR solution which help analysts in identifying and triaging the issues.	Microfocus
33	Page No. - 182 Point - 76.41 C25 - SIEM & SOAR	The proposed SOAR solution should support periodic automations – notify the users of underutilized VMs and reduce VM profile.	<b>Justification:</b> This point is specific to one OEM. Request you to please make it generic & mention  <b>Change Required:</b> "The proposed SOAR solution can be configured to support periodic automations."	Bidder to comply to RFP specifications. Mentioned capability is required in solution to run the operations efficiently	Microfocus

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
34	Page No. - 182 Point - 76.42 C25 - SIEM & SOAR	Ability to identify the future needs of critical system resources, no prior knowledge in predictive modelling algorithms required to use this functionality, and the ability to easily interpret and customize the results	<p><b>Justification:</b> This point is specific to one OEM. Request you to please make it generic &amp; mention</p> <p><b>Change Required:</b> "Solution should provide Predictive analysis to identify future need".</p>	Bidder to comply to RFP specifications. Mentioned capability is required in solution to run the operations efficiently and with ease. This functionality is critical as it'll help analyst in setting up an alert for underutilized Virtual Machine and helps in optimization of same.	Palo Alto
35	141	C19 - Software Defined WAN	<p>The proposed solution should provide an option of using the Orchestrator (Management and Provisioning Platform) from a public cloud and it should also have the capability to be deployed on-premises.</p> <p>Please clarify if you need an on-premise Orchestrator/Controller Solution or should it be on any Public Cloud ?</p>	The mentioned requirement is for on-premise private cloud	Palo Alto
36	142	C19 - Software Defined WAN	<p>The branch device should be capable of running/supported over major hypervisors like VMware and KVM</p> <p>Please clarify why a hypervisor support is requested on the Branch/CPE device when the SDWAN functionality will be delivered by the appliance as requested in the RFP specifications scope. This feature is OEM specific and should be deleted as SDWAN desired functionalities ask mentioned on the RFP has no correlation to Virtualization support on the branch/edge device</p>	Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions	Palo Alto

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
37	143	C19 - Software Defined WAN	<p>The branch device should have an inbuilt firewall for providing Layer 4 policies and the branch device should also be capable of running 3rd part firewall VNFs and provide service chaining for the same.</p> <p>Requested Change : Please modify the clause as "The branch device should have an inbuilt firewall for providing Layer 3 to Layer 7 policies " Justification: As there is mention of security capabilities on the branch device, the policy capabilities should be meant for Layer 7 considering the application based flows. Layer 7 security policy posturing can only cater to layer 7 flows on the branch device rather than just mentioning Layer 4 policies. VNFs and service chaining concepts are OEM specific and all leading SDWAN/Security OEMs don't support this feature set on the branch edge device and even this is not required because today's branch device can offer both NGFW and SDWAN capabilities in the single appliance as mentioned in the RFP scope</p>	<p>Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions</p>	Palo Alto



Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
38	184	C26 – NGFW Appliance	<p>Should support performance as per the annexure for NGFW (FW, AVC, anti-bot, identity awareness, anti-malware, antispam, zero phishing and IPS) real-world/ production/ Enterprise Testing performance</p> <p>Requested Change : Please modify the clause as "Should support performance as per the annexure for NGFW (FW, AVC, anti-bot, identity awareness, anti-malware, antispam, zero phishing, IPS, Sandboxing, and all other security services enabled along with logging) real-world/ production/ Enterprise Testing performance considering transaction size reference of 64KB HTTP" Justification: Correct Hardware Throughput benchmarking can only be done when all the security services are enabled on the NGFW appliance and there is a consideration of Layer 7 HTTP packet size reference as requested in the modified clause. This will ensure that the NGFW benchmarking has been done on Layer 7 as these NGFW appliances will be processing Layer 7 application flows traversing in the Coast Guard environment</p>	Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions	Palo Alto

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
39	184	C26 – NGFW Appliance	<p>Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6-toIPv4) &amp; Nat46 (IPv4-to-IPv6) functionality</p> <p>Requested Change : Please modify the clause as " Firewall should support Nat66(IPv6-to-IPv6) or equivalent, Nat 64 (IPv6-toIPv4)/Nat46 (IPv4-to-IPv6) functionality" Justification: In Today's preferred deployment scenarios, NAT46 is not a preferred choice of NAT translation. So, NAT46 should be made optional or should be deleted. Few leading does NPTV6 instead of NAT 66 which offers similar NAT functionality. Please mention equivalent along with NAT66 feature ask</p>	<p>Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions</p>	Palo Alto

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
40	184	C26 – NGFW Appliance	<p>Should support more than 8000 (excluding custom application signatures) distinct application signature as application detection mechanism to optimize security effectiveness and should be able to create 40 or more application categories for operational efficiency</p> <p>Requested Change : Please modify the clause as "Should support more than 3900 (excluding custom application signatures) distinct application signature as application detection mechanism to optimize security effectiveness and should be able to create 65 or more application categories for operational efficiency" Justification: Every OEM has its own application categorization standards and categories/sub-categories mapped to the application signatures. Mentioning 3900 plus signature will ensure that clause is generic and all leading OEMs can comply to the stated ask</p>	Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions	Palo Alto

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
41	185	C26 – NGFW Appliance	<p>Should support more than 12,000 (excluding custom signatures) IPS signatures or more. Should support capability to configure correlation rule where multiple rules/event can be combined together for better efficacy</p> <p>Requested Change : Please modify the clause as "Should support more than 20,000 (excluding custom signatures) IPS signatures or more. Should support capability to configure correlation rule where multiple rules/event can be combined together for better efficacy" Justification: More IPS signature reference of 20000 plus will ensure better security effectiveness of the NGFW platform and will provide better security posture for the applications/data assets of the complete deployment setup</p>	Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions	Palo Alto

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
42	185	C26 – NGFW Appliance	<p>Should support minimum 5 Virtual Systems from day 1 and scalable upto 50 virtual system without any additional hardware.</p> <p>Requested Change : Please modify the clause as "Should support minimum 5 Virtual Systems from day 1 and scalable upto 20 virtual system without any additional hardware." Justification: Virtual Systems are created to physically segregate the NGFW to multiple NGFW instances. Threat Prevention throughput is only 15 Gbps and slicing the NGFW to 50 instances ( less than 300 Mbps ) will not be an ideal deployment scenario for future consideration. Please modify the clause to support scalability upto 20 Instances/Virtual Systems if needed for future requirements</p>	Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions	Palo Alto
43	187	C26 – NGFW Appliance	<p>Solution must be able to segment the rule base in a sub policy structure in which only relevant traffic is being forwarded to relevant policy segment for an autonomous system</p> <p>This clause is OEM specific and should be deleted</p>	Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions	Palo Alto
44	187	C26 – NGFW Appliance	<p>Solution should be able to provide insights of hosts/user on basis of indication of compromise, any license required for this to be included from day one.</p> <p>This clause is OEM specific and should be deleted</p>	Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions	Palo Alto

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
45	188	C26 – NGFW Appliance	<p>Throughput (NGFW (FW,AVC and IPS) // Throughput threat prevention with Anti malware, Antibot , zero phishing ,Anti-Spam</p> <p>Requested Change : Please modify the clause as "NGFW throughput should be at least 40 Gbps with AVC and Logging enabled considering 64KB HTTP and Threat Prevention throughput with all security services enabled including Sandboxing and Logging should be minimum 20 Gbps considering 64KB HTTP". Please remove Anti-Spam as all leading OEMs do not support this feature on NGFW appliances and it will restrict few OEMs to participate Justification: NGFW throughput and Threat Prevention are the two main benchmarking standards for NGFW appliances. Threat Prevention throughput ask should be mentioned by including all security services so that HW performance does not degrade when these security services are enabled on the platform. Packet size of 64KB HTTP should be considered in the calculation because every OEM will quote a lower end platform by calculating with varying frame size. A frame size will ensure that NGFW benchmarking is performed while evaluating the platforms</p>	<p>Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions</p>	Palo Alto

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
46	189	C26 – NGFW Appliance	<p>8            X            10G            SFP+</p> <p>Requested Change : Please include at least 2*40G/100G ports for the uplink connectivity along with SFP+ ask mentioned for the Input/Output ports Justification: Considering the throughput requirements and switches ask mentioned in the RFP scope, backbone network design should be on 40G/100G uplinks/core links considering a 5-7 years future investment consideration and bandwidth demands of the current application landscape</p>	Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions	Palo Alto
47	189	C26 – NGFW Appliance	<p>Concurrent Sessions: 30 Million or more</p> <p>Requested Change : Please modify the clause as "30 Million TCP/UDP connections/sessions or minimum 3.5 Million Layer 7 Sessions" Justification: Considering the NGFW session scoping, there should be a specific mention about Layer 7 session count because majority of the current DC flows will be layer 7 based i.e. HTTPS/HTTP/DNS/SMTP/etc.So, the session sizing concurrency should be considered for both Layer 4 and Layer 7 sessions. Few Leading OEMs don't publish any figures on Layer 4 because the NGFW platforms are built around application inspection/control and there is no point of taking layer 4 benchmarking as per the earlier benchmarking standards of stateful firewalls</p>	Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions	Palo Alto

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
48	189	C26 – NGFW Appliance	<p>Connections/Second: Minimum 400K</p> <p>Requested Change : Please modify the clause as "Minimum 400K TCP/UDP new connections/sessions per second or minimum 2,90,000 Layer 7 New Sessions per second" Justification: Considering the NGFW session scoping, there should be a specific mention about Layer 7 session count because majority of the current DC flows will be layer 7 based i.e. HTTPS/HTTP/DNS/SMTP/etc.So, the new session per second sizing should be considered for both Layer 4 and Layer 7 sessions. Few Leading OEMs don't publish any figures on Layer 4 because the NGFW platforms are built around application inspection/control and there is no point of taking layer 4 benchmarking as per the earlier benchmarking standards of stateful firewalls</p>	<p>Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions</p>	Palo Alto



Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
49	189	C26 – NGFW Appliance	<p>Throughput (NGFW(FW,AVC and IPS): 5 Gbps</p> <p>Requested Change : Please modify the clause as "Threat Prevention throughput with all security services enabled including Sandboxing and Logging should be minimum 5 Gbps considering 64KB HTTP" Justification: Threat Prevention throughput with all security knobs enabled is the main benchmarking standard for NGFW appliances. Threat Prevention throughput ask should be mentioned by including all security services so that HW performance does not degrade when these security services are enabled on the platform. Packet size of 64KB HTTP should be considered in the calculation because every OEM will quote a lower end platform by calculating with varying frame size. A frame size will ensure that NGFW benchmarking is performed while evaluating the platforms</p>	Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions	Palo Alto

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
50	189	C26 – NGFW Appliance	<p>Interfaces 4 GE RJ-45 + 4 X10G SFP+</p> <p>Requested Change : Please also include minimum 2*25G ports on the Internet NGFW device for uplink connectivity consideration Justification: Uplink ports aggregate both the North-South and East-West traffic and higher BW ports are desired for uplink/core connectivity considerations. Not mentioning the port ask from day 1 will turn into a Hardware refresh in case of Bandwidth bottleneck arising in the next 5-7 years considering higher BW demanding applications</p>	<p>Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions</p>	Palo Alto
51	189	C26 – NGFW Appliance	<p>Concurrent Sessions: 8 million or more</p> <p>Requested Change : Please modify the clause as "8 Million TCP/UDP connections/sessions or minimum 1.4 Million Layer 7 Sessions" Justification: Considering the NGFW session scoping, there should be a specific mention about Layer 7 session count because majority of the current DC flows will be layer 7 based i.e. HTTPS/HTTP/DNS/SMTP/etc.So, the session sizing concurrency should be considered for both Layer 4 and Layer 7 sessions. Few Leading OEMs don't publish any figures on Layer 4 because the NGFW platforms are built around application inspection/control and there is no point of taking layer 4 benchmarking as per the earlier benchmarking standards of stateful firewalls</p>	<p>Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions</p>	Palo Alto

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
52	189	C26 – NGFW Appliance	<p>Connections/Second: Minimum 100K</p> <p>Requested Change : Please modify the clause as "Minimum 100K TCP/UDP new connections/sessions per second or minimum 1,40,000 Layer 7 New Sessions per second" Justification: Considering the NGFW session scoping, there should be a specific mention about Layer 7 session count because majority of the current DC flows will be layer 7 based i.e. HTTPS/HTTP/DNS/SMTP/etc.So, the new session per second sizing should be considered for both Layer 4 and Layer 7 sessions. Few Leading OEMs don't publish any figures on Layer 4 because the NGFW platforms are built around application inspection/control and there is no point of taking layer 4 benchmarking as per the earlier benchmarking standards of stateful firewalls</p>	Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions	Palo Alto
53	190	C26 – NGFW Appliance	<p>Storage, Memory, RU:Min. of 32 GB of RAM, SSD 200GB of Storage in RAID1. Should not consume more than 1 RU</p> <p>Requested Change : Please modify the clause as "Min. of 32 GB of RAM, SSD 200GB of Storage in RAID1 or 480GB SSD based storage. Should not consume more than 1 RU" Justification: Every OEM has its own Hardware architecture. So, we are only requesting for a change in the SSD based storage as our platform will offer 480GB SSD based storage on the appliance"</p>	Bidder to comply to with RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions	Palo Alto

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
54	191	C26 – NGFW Appliance	<p>the solution would enable emulation of file sizes larger than 100 MB in all types it supports</p> <p>This is an OEM specific clause. Please change the file emulation size to 50MB</p>	Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions	Palo Alto
55	191	C26 – NGFW Appliance	<p>Hardware Requirement: Unique files per hour: 4000 Form Factor: 1U Minimum CPU cores: 2 x 8 physical, 24 virtual Virtual Machines: 24 Storage: 1x2000 GB SSD Memory: 128 GB Ports: 2x 10/100/1000 RJ45 and 2x with Included 10GbE SR transceivers for future expansion.</p> <p>Requested Change : Please modify the Form Factor to be max 2 RU, file analysis count of 7000 files per day and 480GB SSD System Disk Storage plus support for 4*8TB drives in RAID 1 configuration ( There is no SSD drive of 2 TB available with all OEMs and this is an OEM specific feature ) Justification: We meet all the Hardware benchmarks defined for the Anti-APT Hardware appliance and every OEM calculates the file analysis throughput with their own proprietary method. Please modify the Form Factor, file analysis output/Storage requirement on SSD/HDD mentioned in the change so that this is not OEM specific and generic for other leading OEMs to participate</p>	Bidder to comply to RFP requirements. Minimum specifications are mentioned in RFP. Bidder can propose higher specification to provide a comprehensive solution to meet RFP requirements and SLAs conditions	Radware

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
56	Virtual Server LB C18-Virtual Server LB Page 139 Sl. No 69.1	Must be a virtual appliance which supports Multitenancy and virtual Contexts, should be supported on Bare-metal, leading Hypervisors of ESXi and KVM. Should integrate with GSLB and Enterprise SIEM as provided part of project.	<p>Despite Being an Global Industry Leader for ADC and Load Balancing Solution for past 2 decade, this clause is restricting us to participate. Also, Virtualization is a feature of hardware appliance which allows to create multiple isolated context in the same hardware, but here Virtual Appliance based solution is asked which is itself a virtual context. Request you to kindly amend this clause.</p> <p><b>Suggested Clause :</b>  <b>Must be a virtual appliance should be supported on leading Hypervisors of ESXi and KVM and public cloud environment like AWS and AZURE. Should integrate with GSLB and Enterprise SIEM as provided part of project.</b></p>	The clause mentioned at para 69.1 on page 139 of RFP to be complied.	Radware
57	Virtual Server LB C18-Virtual Server LB Page 139 Sl. No 69.2	The solution should support Layer 7 throughput of upto aggregated 10 Gbps or higher and scalable upto 20Gbps with additional license and allows unlimited instances without exceeding licensed aggregated throughput at any given point in time.	<p>As per Industry standard, Load Balancing Licensing Plan for almost all the vendor is designed on L4 throughput, not on Layer 7 throughput. Hence we request you to consider the same.</p> <p><b>Suggested Clause :</b>  <b>The solution should support Layer4/Layer 7 throughput of upto aggregated 10 Gbps and scalable upto 15 Gbps with additional license</b></p>	Bidder to provide the workable solution as per the clause mentioned at para 69.2 on page 139 of RFP.	Radware

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
58	Virtual Server LB C18-Virtual Server LB Page 140 Sl. No 69.3	Should support minimum 800,000 Layer 7 requests per second on day 1 and scalable upto 1.5 million with additional license.	Despite Being an Global Industry Leader for ADC and Load Balancing Solution for past 2 decade, this clause is restricting us to participate. Request you to kindly relax this clause.  <b>Suggested Clause :</b> <b>Should support minimum 800,000 Layer 7 requests per second on Day 1.</b>	Bidder to comply to the clauses/ conditions/ requirement mentioned at para 69.3 on page 139 of RFP.	Radware
59	Virtual Server LB C18-Virtual Server LB Page 140 Sl. No 69.5	The solution should have inbuilt multi-tenancy and should support auto-discovery, Integration and Orchestration of the underlying infrastructure on which it has been deployed.	Despite Being an Global Industry Leader for ADC and Load Balancing Solution for past 2 decade, this clause is restricting us to participate. Request you to kindly relax this clause.  <b>Suggested Clause :</b> <b>The solution should support Integration and Orchestration of the underlying infrastructure on which it has been deployed.</b>	Bidder to comply to the clauses/ conditions/ requirement mentioned at para 69.5 on page 140 of RFP.	Radware
60	Virtual Server LB C18-Virtual Server LB Page 140 Sl. No 69.6	The proposed solution should have a Central Management station which support Auto-Discovery, Integration and Orchestration of the underlying cloud on which it has been deployed.	Despite Being an Global Industry Leader for ADC and Load Balancing Solution for past 2 decade, this clause is restricting us to participate. Request you to kindly relax this clause.  <b>Suggested Clause :</b> <b>The proposed solution should have a Central Management station which support Integration and Orchestration of the underlying cloud on which it has been deployed.</b>	Bidder to comply to the clauses/ conditions/ requirement mentioned at para 69.6 on page 140 of RFP.	Radware

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
61	Virtual Server LB C18-Virtual Server LB Page 140 Sl. No 69.7	The solution should support auto scale out and scale in functionality so that when traffic load Increases, required load balancer instances are added or deleted on demand.	<p>Despite Being an Global Industry Leader for ADC and Load Balancing Solution for past 2 decade, this clause is restricting us to participate. It should be active-active High Availability mode to support increasing traffic which can be load balanced between Primary and secondary device. Request you to kindly relax this clause.</p> <p><b>Suggested Clause :</b>  <b>The Proposed Solution should be deployed in active-active High Availability mode to support increasing traffic. It should use Industry Standard VRRP Protocol for High Availability (No Proprietary protocol should be used)</b></p>	Bidder to comply to the clauses/ conditions/ requirement mentioned at para 69.7 on page 140 of RFP.	Radware
62	Virtual Server LB C18-Virtual Server LB Page 140 Sl. No 69.8	The solution should support application monitoring, end-to-end round trip times with latencies, "network DVR" like record and review capabilities and searchable traffic logs, security insights, log insights, client insights etc.	<p>Every OEM has its own way of monitoring, reporting, dashboard and analytics. Hence, we request you to generalize the Clause.</p> <p><b>Suggested Clause :</b>  <b>The solution should support application monitoring, end-to-end round trip times with latencies and searchable traffic logs, security insights, log insights, client insights etc.</b></p>	Bidder to provide the workable solution as per the clause mentioned at para 69.8 on page 140 of RFP.	Radware

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
63	Virtual Server LB C18-Virtual Server LB Page 141 Sl. No 69.17	The solution must provide native DNS and IPAM capabilities as well as support/integration with popular DNS & IPAM providers like Infoblox, Route 53, Azure IPAM/DNS etc.	Native DNS and IPAM is not the functionality of ADC. However, For GSLB, Device should support resolution of A and AAAA records. Hence we request you to remove this clause.  <b>Suggested Clause :</b> <b>Kindly remove this Clause.</b>	Bidder to provide the workable solution as per the clause mentioned at para 69.17 on page 141 of RFP.	Radware
64	Virtual Server LB C18-Virtual Server LB Page 141 Sl. No 69.21	The product should offer in-depth analytics for the North-South traffic flows including latency/end-to-end timing analysis of flows, application performance monitoring, client and log analytics and dynamic health scoring.	Every OEM has its own way of monitoring, reporting, dashboard and analytics. Hence, we request you to generalize the Clause.  <b>Suggested Clause :</b> <b>The product should offer in-depth analytics for the North-South traffic flows including latency/end-to-end timing analysis of flows, application performance monitoring, client and log analytics.</b>	Bidder to provide the workable solution as per the clause mentioned at para 69.21 on page 141 of RFP.	Radware
65	Virtual Server LB C18-Virtual Server LB Page 141 Sl. No 69.21	New Clause Request	Minimum Eligibility Criteria should be mentioned to have a benchmark and healthy competition among the Industry Leading Solution.  <b>Suggested Clause :</b> <b>1. OEM should have OEM TAC in INDIA. (since last 10 years)</b> <b>2. OEM must have atleast 5 reference at INDIAN Government / BFSI / Telecom Organizations in last 5 years</b> <b>3. The proposed OEM should be Parent Technology OEM only (Should NOT be White labeled or Co-branding or 3rd Party Technology or Open Source or Reseller Agreement</b>	Bidder to comply to the clauses/ conditions/ requirement mentioned at para 69.21 on page 141 of RFP.	Radware



Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
66	Virtual Server LB C18-Virtual Server LB Page 141 Sl. No 69.21	New Clause Request	Cyber Security is very important aspect in the entire datacenter and application deployed.  <b>Suggested Clause :</b> <b>The proposed solution should support NSS Lab recommended, ICSA Certified and PCI Compliant WAF on the same Hardware from the same OEM. It must be able to handle OWASP Top 10 attacks and WASC Web Security Attack Classification.</b>	Bidder to provide the workable solution as per the clause mentioned at para 69.21 on page 141 of RFP.	Radware
67	C42-Application Delivery Controller (ADC) Page No. 246 Sl.No 2.0	Should support upto 60Gbps are scalability factor and should be provisioned with 03 Gbps. Throughput at L7.	AS per Bill of Material, Page No. 504, 10 Gbps of throughput is asked for ADC Functionality. We Request to Clarify the same.  <b>Suggested Clause :</b> <b>Should support upto 10Gbps are scalability factor and should be provisioned with 03 Gbps. Throughput at L7.</b>	Bidder to comply to the clauses/ conditions/ requirement mentioned at para 2.0 on page 246 of RFP to be complied.	Radware
68	C42-Application Delivery Controller (ADC) Page No. 246 Sl.No 93.9	Should have 18000 SSL TPS, using a ECC SSL certificate.	SSL Performance is completely based on the underlying infrastructure used. Also, As per Clause 1.8, 3400 TPS/CPS is asked. Hence we request you to clarify the same.  <b>Suggested Clause :</b> <b>Should support 10K SSL CPS for Future Use.</b>	Bidder to provide the workable solution as per the clause mentioned at para 93.9 on page 246 of RFP.	Radware

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
69	C42- Application Delivery Controller (ADC) Page No. 247 Sl.No 93.25	It should have capability to automatically analyze attacks like Brute Force and avail CAPTCHA on the fly to users to Identify bot/scripted attacks.	Every OEM has its own way of handling Brute Force Attack. Hence we request you to generalize the Clause.  <b>Suggested Clause :</b> <b>It should have capability to automatically analyze attacks like Brute Force</b>	Bidder to provide the workable solution as per the clause mentioned at para 93.25 on page 247 of RFP.	Radware
70	C42- Application Delivery Controller (ADC) Page No. 248 Sl.No 93.27	It should be able to detect the presence of Remote Access Trojans (RATs) residing in the user's web browser.	Worms and Spyware detection is not the Functionality of Web Application Firewall. Hence we request to remove this Clause.  <b>Suggested Clause :</b> <b>Kindly remove this Clause.</b>	Bidder to provide the workable solution as per the clause mentioned at para 93.27 on page 248 of RFP.	Radware
71	C42- Application Delivery Controller (ADC) Page No. 248 Sl.No 93.28	It should perform comprehensive countermeasure to protect against zero day attack, Challenge-Response Mechanism, which should be able to detect and protect attacks in real time through inbuilt Captcha mechanism.	Every OEM has its own way of handling Attack. Hence we request you to generalize the Clause.  <b>Suggested Clause :</b> <b>It should perform comprehensive countermeasure to protect against zero day attack, Challenge-Response Mechanism, which should be able to detect and protect attacks in real time through inbuilt Captcha/Fingerprinting mechanism.</b>	Bidder to provide the workable solution as per the clause mentioned at para 93.28 on page 248 of RFP.	Radware

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
72	C42- Application Delivery Controller (ADC) Page No. 248 Sl.No 93.29	It should encrypt the sensitive fielding the application in real time as compared to encrypted after a submit button or equivalent being pressed.	This clause is restrictive. Parameter Encryption is not the functionality of WAF. Hence we request you to amend this.  <b>Suggested Clause :</b> <b>Kindly Remove this clause.</b>	Bidder to provide the workable solution as per the clause mentioned at para 93.29 on page 248 of RFP.	Radware
73	C42- Application Delivery Controller (ADC) Page No. 248 Sl.No 93.36	Vendor should provide a service to upload this snapshot and get feedback on the health of the unit & missing Hotfixes and best practices.	Every OEM has its own way of handling SR Cases, hot fixes, learning portal, documentation, best practices etc. Hence we request you to generalize the Clause.  <b>Suggested Clause :</b> <b>OEM should provide web portal access for handling SR Cases, hot fixes, learning portal, documentation, best practices etc</b>	Bidder to provide the workable solution as per the clause mentioned at para 93.36 on page 248 of RFP.	Radware
74	C42- Application Delivery Controller (ADC) Page No. 249 Sl.No 8.0	OEM should be listed in Gartner leader quadrant for ADC for last 3 years consecutively.	There is no report from Gartner in last 3 Years. Last report published by Gartner on ADC Is in 2016. Hence we request you to amend the clause as below.  <b>Suggested Clause :</b> <b>OEM should be listed in Gartner leader quadrant for ADC as per last published report.</b>	Bidder to provide latest available report.	Radware

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
75	C42- Application Delivery Controller (ADC) Page No. 249	New Clause Request	<p>Minimum Eligibility Criteria should be mentioned to have a benchmark and healthy competition among the Industry Leading Solution.</p> <p><b>Suggested Clause :</b></p> <ol style="list-style-type: none"> <li><b>1. OEM should have OEM TAC in INDIA. (since last 10 years)</b></li> <li><b>2. OEM must have atleast 5 reference at INDIAN Government / BFSI / Telecom Organizations in last 5 years</b></li> <li><b>3. The proposed OEM should be Parent Technology OEM only (Should NOT be White labeled or Co-branding or 3rd Party Technology or Open Source or Reseller Agreement)</b></li> </ol>	The clause mentioned at on page 249 of RFP to be complied.	Radware
76	C42- Application Delivery Controller (ADC) Page No. 249	New Clause Request	<p>Cyber Security is very important aspect in the entire datacentre and application deployed.</p> <p><b>Suggested Clause :</b></p> <p><b>The proposed solution should support NSS Lab recommended, ICSA Certified and PCI Compliant WAF on the same Hardware from the same OEM. It must be able to handle OWASP Top 10 attacks and WASC Web Security Attack Classification.</b></p>	The clause mentioned at C42 on page 249 of RFP to be complied.	Infinity Lab

Ser	RFP reference	Content of RFP requiring clarification	Points for Clarification / Query by Bidder	Response/ Clarification	Vendor
77	Page No. 254, Para 97	OEM qualification requirement	<p>Data Centre, DR Data Centre and Zero Touch ROBO OEM components of Hardware, Hyper-Converged Appliances for ROBO, Virtual NGFW, Backup software, SDDC software, SD-WAN should have been mentioned in latest Gartner Magic Quadrant/ Forrester Wave Reports in respective product category.</p> <p>As per RFP, computing, storage, networking and security products should be mentioned in latest Gartner Report. However, SDWAN devices is not covered under Gartner report. Therefore, the clause may be exempted for SDWAN.</p>	<p>Para 97 on page 254 of RFP may be read as</p> <p>for "SDWAN" read "WAN SWITCH" and</p> <p>'Data Center..... Gartner Magic Quadrant/ Forrester Wave Reports or relevant Indian certifications/ report such as TEC/ TSEC, STQC, BIS or their accredited lab reports in respective product category'.</p>	Infinity Lab
78		General	As per RFP, ICG intended 200% scalability for data centre in design. Therefore, whether vendor to cater an SDWAN solution with bandwidth capacity suiting to meet this 200% scalability from day 1 itself?	Bidder to provide SDWAN solution meeting current bandwidth requirement only.	Infinity Lab

**ICG SIMHA SOFTWARE STACK STANDARD**

Sl.	STACK	COTS (SIMHA)	FOSS (SIMHA- BRASS/ICONS)
1	SOA/ Microservices	SOA/ Microservices	SOA/ Microservices
2	J2EE App Server	Oracle Web Logic Server 12c	JBoss Wildfly
3	Java Framework	Spring 5.2.7	Spring 5.2.7
4	Database	Oracle Database 12c	PostgreSQL Community Edition 9.6
5	Database ORM Tool	Hibernate 5.4	Hibernate 5.4
6	Integrated Development Environment	JDeveloper 12.2.1	Eclipse 4.12
7	Language (Server- Side)	Java 1.8	Java 1.8
8	Front-end Web Application Framework	Angularv 10	Angular 10 (React)
9	Enterprise Service Bus (ESB)	Oracle ESB 12c	JBoss Fuse Community Edition EAP version 7.21
			with 7.4.0
10	Identity Access Management	Oracle IAM 12c	RedHat Keycloakvi 9.02
11	Java Development Kit	Entire Open JDK 8	Entire Open JDK 8
12	Build Automation Tool	Apache Maven 3.6.0	Apache Maven 3.6.0
13	CI/CD Toolviii	Jenkins 2.204	Jenkins 2.204
15	Version Control Systemxii	Bit Bucket 6.9	Bit Bucket 6.9
16	Multi-master asynchronous Database Replicationxiv	Oracle Golden Gate 12c	Symmetric DS 9.8
17	REST API Interface for Database	ORDS	PostgREST
18	UI/ UX Design	HTML5, CSS 3.2	HTML5, CSS 3.2, Bootstrap

19	CSS framework	Bootstrap	Bootstrap
20	Service Desk Software	GLPI 0.7.8	GLPI 0.7.8
21	Bug Tracker	MantisBT 2.2	MantisBT 2.2
22	JAVA Object Serialization	Eclipse Jersey 2.30.1	Eclipse Jersey 2.30.1
23	JDBC API	JAVA 8	JAVA 8
24	Web Server	Oracle HTTP Server (OHS) 12c	Apache 2 HTTP server
25	Caching Server	Redis	Redis
26	Logging Software	Log4j	Log4j
27	Static Code Analysis	SonarQube	SonarQube
28	Desktop GUI using Web	Electron	Electron
29	NodeJS/ JavaScript IDE	Visual Studio Code	Visual Studio Code
30	Configuration Server	Spring Cloud Config	Spring Cloud Config
31	API Gateway	Kong Gateway	Kong Gateway

**ADDRESS AND CONTACT DETAILS OF ICG SITES AND LINKS**

<b>SL</b>	<b>Link ID</b>	<b>Site ID</b>	<b>Site Name</b>	<b>Address</b>	<b>Contact details</b>
1	L001	S001	CGHQ, ICGS(DLI), ICG IDR	Coast Guard Headquarters, C/o ICGS Delhi, National Stadium Complex, Near Gate NO. 7	S Mishra P/Nvk
2	L002	S001	CGHQ, ICGS(DLI), ICG IDR	New Delhi - 110001	Mob. 6294788525
3	L003	S002	CGHQ Annex., Noida Sector-62	CGHQ Annexure Building (Near Indus Valley Public School),	
4	L004	S002	CGHQ Annex., Noida Sector-62	C Block, Phase 2, Industrial Area, Sector 62, Noida, UP-201309	
5	L005	S003	CGOM (NOI)	Coast Guard Officer Mess,	MD Raghunath, U/Adh
6	L006	S003	CGOM (NOI)	A-1 Building, Opposite Adobe Building, Sector-24, Noida-201301	Mob. 8355968064
7	L007	S004	CGAOT(KAN)	The Officer in charge	GC Koley, PSE
				CGAOT Kanpur	Mob. 9840845539
				C/o - M/s HAL (TAD)	
				Kanpur	
8	L008	S004	CGAOT(KAN)	Kanpur - 208008	
9	L009	S005	ICGS (JAK)	1. The Commanding Officer	Brahamdutt Adh      Mob. 8901639443
				Coast Guard Station Jakhau	
				511/211, Flat No. 34	
				Everest Colony Post Naliya	
10	L010	S005	ICGS (JAK)	Dist – Kutch(Gujarat) – 376 055	
10	L010	S005	ICGS (JAK)	PIN- 370655	
11	L011	S006	ICGS (VDR)	ICGS Vadinar                      Vill- Vadinar,                      PO- Deb Bhoomi Dwarka	Ram Kumar, P/Nvk 9619296434/8639694719 02833-256333



<u>SL</u>	<u>Link ID</u>	<u>Site ID</u>	<u>Site Name</u>	<u>Address</u>	<u>Contact details</u>
12	L012	S006	ICGS (VDR)	Gujarat-361010	Office: 02833-256560
13	L013	S007	DHQ-15 / ICGS (OKA)	C/O DHQ-15, Okha Port, Jamnagar Dist, Gujarat-361350	Sandeep, P/Nvk
14	L014	S007	DHQ-15 / ICGS (OKA)		Mob. 9467950190
15	L015	S008	CG Jetty, Okha Port Trust	C/O DHQ-15, Okha PORT, Jamnagar Dist, Gujarat-361350	Mukesh, P/Nvk
16	L016	S008	CG Jetty, Okha Port Trust		Mob. 9744003605
17	L017	S009	ICGS (VRL)	The CommaCommnding Officer	Renjith S P/NVK Mob.6302300270/ 8891955331
				Coast Guard Station – Veraval	
				House No-113 Gali No-4	
				Shivaji Nagar	
				Veraval – 362265	
18	L018	S009	ICGS (VRL)		
19	L019	S010	DHQ-1 , ICGS(PBD)	1. The Commander	Prodeep Roy, P/Nvk
				Coast Guard Distt HQ – 01	Mob. 8328897240
				Post Box No. 25	Malik, U/Nvk
				Near RGT College	Mob. 7668017838
				Porbander(Gujarat) – 360 575	
20	L020	S010	DHQ-1 , ICGS(PBD)		
21	L021	S011	CGAE (PBD), 850	1. The Squadron Commander	Arpan Shaw, U/Nvk
			SQN(CG)	Coast Guard Air Sqdn – 850	Mob. -7016126040
				C/o Coast Guard Air Enclave	

<u>SL</u>	<u>Link ID</u>	<u>Site ID</u>	<u>Site Name</u>	<u>Address</u>	<u>Contact details</u>
				Near Civil Aerodrome	
				Porbandar - 360575	
22	L022	S011	CGAE (PBD), 850		
			SQN(CG)		
23	L023	S012	CG Jetty, Porbander Port Trust	Coast Guard Distt HQ – 01	Prodeep Roy, P/Nvk
				Post Box No. 25	Mob. 8328897240
				Near RGT College	Malik, U/Nvk
				Porbander(Gujarat) – 360 575	Mob. 7668017838
24	L024	S012	CG Jetty, Porbander Port Trust		
25	L025	S013	RHQ (NW), ICGS(GDN)	1. The Commander	Vijesh Adh
				Coast Guard Regional HQ (North West)	Mob. 9497447889
				PO Box No. 09, Udyog Bhavan	
				Block 11/12, 7th Floor, Sector 11	
				Gandhi Nagar	
				Gujrat – 382010	
26	L026	S013	RHQ (NW), ICGS(GDN)		
27	L027	S014	ICGS (MDR)	<b>EXISTING BUILDING</b>	BV Rao, U/Nvk IT
				ICGS MUNDRA, 4TH FLR, PORT USER BUILDING(5B), NAVINAL ISLAND	Mob. 9182850167
				GUJARAT- 370421	
				<b>PROPOSED SHIFTING</b>	
28	L028	S014	ICGS (MDR)	ICGS MUNDRA, NEAR KHARI MEETHI TEMPLE ROAD, BAROI VILLAGE, MUNDRA-370421	

<u>SL</u>	<u>Link ID</u>	<u>Site ID</u>	<u>Site Name</u>	<u>Address</u>	<u>Contact details</u>
29	L029	S015	ICGS (PPV)	C/O ICGS pipavav, Jafrabad RD, Hindorna Chowk, PB NO. 41, Amreli	Rakesh Kumar, U/Nvk
30	L030	S015	ICGS (PPV)	Gujarat- 365560	Mob. 7727822425
31	L031	S016	CGRPS(SRT)	CGRPT (Surat) C/O ABG Shipyard LTD, Near Magdalla Port, Dumas Road	Gaurav P/Nvk
32	L032	S016	CGRPS(SRT)	Gujarat- 395007	Mob. 9427920504
33	L033	S017	ICGAS (DMN)/750,	2. The Commanding Officer	Anvarasan, P/Nvk
			841 SQN(CG)	Coast Guard Air Sqdn – 841	Mob. 7600843702
				C/o CGAS Daman	
				Nani Daman	
			Daman –396 210		
34	L034	S017	ICGAS (DMN)/750,, 841 SQN(CG)		
35	L035	S018	RHQ (W), DHQ-2, ICGS(MBI)	2. The Commander	AP Prasad, Adh
				Coast Guard Regional HQ (West) Worli Sea Face Post Office, Worli	Mob. 8080758831
				Mumbai – 400 030	
36	L036	S018	RHQ (W), DHQ-2, ICGS(MBI)		
37	L037	S019	Buvik	The Officer-in-Charge	Manikandan, PSE
				{SO(IT)}	Mob. 7012229384
				Bureau of Naviks	Sreejith, U/Adh
				Military Camping Ground	Mob. 9566001164
			Village- Kalundre		
38	L038	S019	Buvik	Panvel, Navi Mumbai - 410206	
39	L039	S020	CGSD(MBI)	1. The Office-in-Charge	KV Krishna Rao, PSE Mob. 9679530327
				Coast Guard Store Depot	
				Mankhurd Chhetah Camp	

<u>SL</u>	<u>Link ID</u>	<u>Site ID</u>	<u>Site Name</u>	<u>Address</u>	<u>Contact details</u>
				Mumbai – 400 088	
40	L040	S020	CGSD(MBI)		
41	L041	S107	CG Jetty, Indra Dock, Mumbai Port Trust, Mumbai	Coast Guard Regional HQ (West) Worli Sea Face Post Office, Worli	AP Prasad, Adh
				Mumbai – 400 030	Mob. 8080758831
42	L042	S107	CG Jetty, Indra Dock, Mumbai Port Trust, Mumbai		
43	L043	S022	CGAIS(MBI),842 SQN (CG)	The Commanding Officer	HK Keepgen, P/Ytk
				Coast Guard Air Sqdn – 842	Mob. 9496003713
				C/o INS Kunjali (NAS)	
				Colaba	
				Mumbai – 400 005	
44	L044	S022	CGAIS(MBI),842 SQN (CG)		
45	L045	S023	ICGS (MJR)	The Commanding Officer	Ballav Raj, P/Nvk
				Coast Guard Station – Murud Janjira	Mob. 8072356433
				Dutta Mandir Street, P.O. Janjira Murud	
				Dist Raigad	
				Maharashtra – 402401	
46	L046	S023	ICGS (MJR)		
47	L047	S024	ICGS(RTG)	The Commanding Officer	Prashant, P/Nvk
				Coast Guard Station – Ratnagiri	Tel. 02352-224555
				Airport Building, MIDC area	Ram Pal Adh
				Ratnagiri Air port, Ratnagiri	Mob. 7978661800
				Maharashtra – 415639	
48	L048	S024	ICGS(RTG)		
49	L049	S025	ICGS (DHU)	The Commanding Officer	Abhishek C, U/Nvk
				Coast Guard Station – Dahanu	Mob. 7077024889
				Beach Road	
				Vill & PO – Chikhale	

<u>SL</u>	<u>Link ID</u>	<u>Site ID</u>	<u>Site Name</u>	<u>Address</u>	<u>Contact details</u>
				Dist – Thane	
				Dahanu – 401602	
50	L050	S025	ICGS (DHU)		
51	L051	S026	DHQ-11/, ICGS (GOA)	2. TThe Commander	Rajesh, P/Adh
				Coast Guard Distt HQ – 11	Mob. 9429120653
				4 <sup>th</sup> floor, MPT Old Admin Bldg	
				Mormugao Harbour	
				Goa – 403 803	
52	L052	S026	DHQ-11/, ICGS (GOA)		
53	L053	S027	CGAE (GOA), CGASD(GOA), 800 SQN(CG)	The Commanding Officer	Ashok
				Coast Guard Air Sqdn – 800	Mob. 9764552312)
				C/o Coast Guard Air Enclave	
				Dobolim Air port	
				Goa –403 801	
54	L054	S027	CGAE (GOA), CGASD(GOA), 800 SQN(CG)		
55	L055	S028	ICGS (KAR)	The Commanding Officer	Sibi P/Nvk
				Coast Guard Station – Karwar	Mob. 9943523694
				501/1, NH-17	
				Naval Base PO	
				Arga	
				Karwar – 581308	
56	L056	S028	ICGS (KAR)		
57	L057	S029	CGAOT(BGL)	CG Aircraft & Aero Engine Holding Unit C/O HAL Technical TRG Inst. Suranjandas RD Vimanpura	TV Chellum, P/Adh
58	L058	S029	CGAOT(BGL)	Bangalore- 560017	Mob. 7799111999
59	L059	S030	CG Jetty, Mangalore Port Trust	Coast Guard Distt HQ – 03	Somveer PSE
				Post Box No. 19	Mob. 8307513063/ 7989498687

<u>SL</u>	<u>Link ID</u>	<u>Site ID</u>	<u>Site Name</u>	<u>Address</u>	<u>Contact details</u>
				Panambur	
60	L060	S030	CG Jetty, Mangalore Port Trust	New Mangalore – 57501	
61	L061	S031	DHQ-3/ ICGS(MNG)	3. The Commander	
				Coast Guard Distt HQ – 03	
				Post Box No. 19	
				Panambur	
				New Mangalore – 575010	
62	L062	S031	DHQ-3/ ICGS(MNG)		
63	L063	S032	ICGS (BPY)	2. The Commanding Officer	Mahesh P/NvK
				Coast Guard Station Beypore	Mob. 7012797090
				Fishing Harbour Road	
				Beypore, Distt Kozhikode	
				Kerala – 673 015	
64	L064	S032	ICGS (BPY)		
65	L065	S033	DHQ-4, ICGS Kochi	4. The Commander	Surya Kant, P/Adh Mob.8610043427
				Coast Guard Distt HQ – 04	
				Kalvetty Fort	
				Kochi – 682 001	
66	L066	S033	DHQ-4, ICGS Kochi		
67	L067	S034	CGAE(KOC), 747 SQN(CG)	3. The Commanding Officer	Vijesh , Adh
				Coast Guard Air Sqdn – 747	Mob. 9445997151/
				C/o INS Garuda	9818878154
				Naval Base	
				Kochi – 682 004	
68	L068	S034	CGAE(KOC), 747 SQN(CG)		
69	L069	S035	CG Jetty, Naval Dockyard, Kochi	Coast Guard Distt HQ – 04	Surya Kant, P/Adh Mob.8610043427
				Kalvetty Fort	
				Kochi – 682 001	
70	L070	S035	CG Jetty, Naval Dockyard, Kochi		

<u>SL</u>	<u>Link ID</u>	<u>Site ID</u>	<u>Site Name</u>	<u>Address</u>	<u>Contact details</u>
71	L071	S036	ICGS (VZM)	3. The Commanding Officer	Anees, P/Nvk
				Coast Guard Station – Vizhijam	Mob. 9400130594
				Harbour Road	
				Vizhijam Post	
				Thiruvananthapuram	
72	L072	S036	ICGS (VZM)	Kerala – 695 521	
73	L073	S037	DHQ-12/ ICGS (KAV)	The Commander	Ajit,P/Ytk
				Coast Guard Distt HQ – 12	Mob. 9385718850
				Kavaratti Island	
				Union Territory of Lakshadweep	
				Kavaratti –682555	
74	L074	S038	ICGS (MIN)	The Commanding Officer	R K Singh, P/Adh
				Coast Guard Station – Minicoy	Mob. 9067081785
				Artisan Area Near CPCRI Farm	
				Minicoy Island – 682059	
				UT of Lakshadweep	
75	L075	S039	ICGS (AND)	The Commanding Officer	Vikam Singh U/NVK
				Coast Guard Station – Androth	Mob. 8289960693
				Pandath	
				Androth Island	
				UT of Lakshadweep – 682551	
76	L076	S040	RHQ(East), MRCC(CHN)	3. The Commander	CV Subaiya, PSE
				Coast Guard Regional HQ (East)	Mob. 9679583163
				Cooum River Mouth	
				Near Nappier Bridge	
				Chennai – 600 009	
77	L077	S040	RHQ(East), MRCC(CHN)		
78	L078	S041	DHQ-5/ ICGS Chennai	5. The Commander	Abdul Hamid, P/Nvk

<u>SL</u>	<u>Link ID</u>	<u>Site ID</u>	<u>Site Name</u>	<u>Address</u>	<u>Contact details</u>
				Coast Guard Distt HQ – 05	Mob. 7809630768 /8850398837/ 9020049393
				Fort St. George	
				Chennai – 600 009	
79	L079	S041	DHQ-5/ ICGS Chennai		
80	L080	S042	BMU(CHN)	The Officer-in-Charge	RK Sharma, Adh Mob. 6354972762
81	L081	S042	BMU(CHN)	BMU Chennai 56, S.N. Chelty Street Kasimedu, Chennai - 600 013. Tamil Nadu	
82	L082	S043	CGSD(CHN)	The Office-in-Charge	K Ahmed , P/Nvk
				Coast Guard Store Depot (Chennai)	Mob. 9933273993,
				C/o GM Pettai Road	9650546315
				Royapuram Chennai – 600 013	
83	L083	S043	CGSD(CHN)		
84	L084	S044	CGAS(CHN), CGAIS(CHN), 744 SQN(CG), 848 SQN(CG)	4. The Commanding Officer	Lju K, P/Nvk
				Coast Guard Air Sqdn – 744/848	Mob. 7046877669
				Rudra Road	
				St Thomas Mount	
				Chennai – 600 016	
85	L085	S044	CGAS(CHN), CGAIS(CHN), 744 SQN(CG), 848 SQN(CG)		
86	L086	S045	CG Jetty, Chennai Port Trust, Chennai	Coast Guard Distt HQ – 05	Abdul Hamid, P/Nvk
				Fort St. George	Mob. 7809630768 /8850398837/ 9020049393
				Chennai – 600 009	
87	L087	S045	CG Jetty, Chennai Port Trust, Chennai		
88	L088	S046	ICGS (MDP)	4. The Commanding Officer	Hariram,
				Coast Guard Station – Mandapam	Mob. 9698461960
				District Ramnad	
				Tamin Naidu – 623 518	



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89	L089	S046	ICGS (MDP)		
90	L090	S047	ICGS (TUT)	5. The Commanding Officer	Anuraj KJ, PSE
				Coast Guard Station – Tuticorin	Mob. 8281411195
				Harbour Estate	
				Tuticorin – 628 004	
91	L091	S047	ICGS (TUT)		
92	L092	S048	CG Jetty, Tuticorin Port Trust	Coast Guard Station – Tuticorin	Anuraj KJ, PSE
				Harbour Estate	Mob. 8281411195
				Tuticorin – 628 004	
93	L093	S048	CG Jetty, Tuticorin Port Trust		
94	L094	S049	ICGS(KKL)	The Commanding Officer	Sudarshan. P/Nvk
				Coast Guard Station – Karaikal	Mob. 9679545053
				Block – 3, Praveen Nagar	
				Oduthurai, Karaikal – 609604	
95	L095	S049	ICGS(KKL)		
96	L096	S050	DHQ-13/ ICGS (PCY)	6. The Commander	Kalay Murti, P/Adh
				7. Coast Guard Distt HQ-13	Mob. 9444975891
				CGS Puducherry	
				Post Bag No -1554	
				Puducherry Head Post Office	
				Puducherry - 605001	
97	L097	S050	DHQ-13/ ICGS (PCY)		
98	L098	S051	DHQ-6/ ICGS (VZG)	6. The Commander	Nagendra,
				Coast Guard Distt HQ – 06	Mob. 9951399182
				Post Box No. 1128	
				Malkapuram PO	
				Visakhapatnam – 530 011	
			Andhra Pradesh		
99	L099	S051	DHQ-6/ ICGS (VZG)		

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100	L100	S052	CG Jetty, Naval Dockyard, Vizag	Coast Guard Distt HQ – 06	Nagendra,
				Post Box No. 1128	Mob. 9951399182
				Malkapuram PO	
				Visakhapatnam – 530 011	
101	L101	S052	CG Jetty, Naval Dockyard, Vizag		
102	L102	S053	ICGS(KPM)	The Commanding Officer	Vidyasagar Mahanti, P/Nvk9133309027
				Coast Guard Station – Krishnapatnam	
				Post Box No. 3	
				Post office – Muttukur	
				Distt. Nellore	
Andhra Pradesh – 524344					
103	L103	S053	ICGS (KPM)		
104	L104	S054	ICGS(NPM)	The Commanding Officer	Manoj PT, Adh
				Coast Guard Station – Nizampatnam	Mob. 9497189557
				Door No. 8/109, Near State Bank of India	
				Vill & Mandal – Nizampatnam	
				Taluka – Tenali	
Dist. – Guntur – 522314 (AP)					
105	L105	S054	ICGS(NPM)		
106	L106	S055	CG Jetty, Kakinada Port Trust - Rajdhwaj, (F-1)	8. The Commanding Officer	Mohsin Rafi, Adh
				Coast Guard Station Kakinada	Mob. 8169065450
				Bureau Shell Area	
107	L107	S055	CG Jetty, Kakinada Port Trust - Rajdhwaj, (F-1)	Kakinada Port	
108	L108	S056	ICGS (KND)	Kakinada(AP) – 533 007	
109	L109	S056	ICGS (KND)		
110	L110	S057	DHQ-7/ ICGS (PDP)	7. The Commander	Nayak PSE
				Coast Guard Distt HQ – 07	Mob. 89197 81592
				Badapadia, Paradeep	
				Orissa – 754 142	

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111	L111	S057	DHQ-7/ ICGS (PDP)		
112	L112	S058	CGSD(PDP)	2. The Office-in-Charge	Shiv Diker, U/Adh
				Coast Guard Store Depot	Mob. 8849035914
				Badapadia, Paradip	
				Distt. – Jagatsinghpur	
				Orissa - 754142	
113	L113	S058	CGSD(PDP)		
114	L114	S059	CG Jetty, Paradip Port Trust	Coast Guard Distt HQ – 07	Nayak PSE
				Badapadia, Paradeep	Mob. 89197 81592
				Orissa – 754 142	
115	L115	S059	CG Jetty, Paradip Port Trust		
116	L116	S060	ICGS (GPR)	The Commanding Officer	Hemant Kumar U/Nvk Mob. 9581222266
				Coast Guard Station – Gopalpur	
				Building No. 533	
				NH-5 Bypass Road	
				Chhatarpur	
				Dist – Ganjam – 761020	
				Odisha	
117	L117	S060	ICGS (GPR)		
118	L118	S061	CGAE(BVR)	The Commanding Officer	Rajesh , U/Adh
				Coast Guard Air Enclave Bhubaneswar , Old Terminal Building , Biju Patnaik AirPort	Mob. 8056545881
119	L119	S061	CGAE(BVR)	Bhubaneswar-751 020	
120	L120	S062	RHQ(NE), ICGS (KOL)	The CThe Commander	Gopi Kumar, U/Adh
				Coast Guard Region (NE)	Mob. 9891427405
				Synthesis business Park	
				6th Floor, Shrachi Building	
				New Town, Rajarhat	
				Kolkata – 700157	
121	L121	S062	RHQ(NE), ICGS (KOL)		

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122	L122	S063	700 SQN(CG)	5. The Commanding Officer	Jaswant, U/Adh
				Coast Guard Air Sqdn – 700	Mob. 9978194683
				C/o Coast Guard Air Enclave	
				Hangar No. – 19	
				NSCBI Air port	
				Kolkata – 700 052	
123	L123	S063	700 SQN(CG)		
124	L124	S064	DHQ-8/ ICGS (HLD)	8. The Commander	Souvik Ghosh, U/Nvk
				Coast Guard Distt HQ – 08	Mob. 8972020292
				Anchorage Camp	
				Dist – Midnapore	
125	L125	S064	DHQ-8/ ICGS (HLD)	Haldia Port	
126	L126	S065	CG Jetty, Haldia Port Trust	Haldia – 721 605	
127	L127	S065	CG Jetty, Haldia Port Trust		
128	L128	S066	ICGS (FZR)	The Commanding Officer	Yusuf Upadhayay, U/Nvk Mob. 9633845306
				Coast Guard Station – Frazerganj	
				Vill: Frazerganj	
				PS: Frazerganj Coastal	
				Dist:South 24 Parganas	
				West Bengal PIN- 743 353	
129	L129	S066	ICGS (FZR)		
130	L130	S067	CGTLO(BKP)	The Officer-in-Charge	SK Naseem PSE.
				Coast Guard Technical Liaison Office Kolkata , C/o M/s HAL(BKP) , 9 Topkhana Road	Mob. 7708121804
131	L131	S067	CGTLO(BKP)	24 Parganas(North) , Kolkata – 700120 West Bengal	
132	L132	S068	CG Jetty, Port Blair	4. The Commander	Sarvana,
				Coast Guard Regional HQ (A&N)	Mob.9531811149/ 9025973536
133	L133	S068	CG Jetty, Port Blair	Post Box - 740	Pankaj Kumar, U/Nvk

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134	L134	S069	RHQ(A&N)/, DHQ-14/	Port Blair – 744 102	Mob. 9531880054
			ICGS(PBR)		
135	L135	S069	RHQ(A&N)/, DHQ-14/		
			ICGS(PBR)		
136	L136	S070	RSD (PBR)	The Officer-in-Charge RSD (Port Blair), Post Box No. 716 Haddo Post Port Blair – 744 102	
			RSD (PBR)	UT of Andaman and Nicobar	
138	L138	S071	745 SQN(CG), CGAE PORTBLAIR	6. The Commanding Officer	Ranjit, P/Nvk
				Coast Guard Air Sqdn – 745	Mob. 6302300270
				Post Bag No – 08	
				VIP Road, Junglight	
				Port Blair – 744 103	
139	L139	S071	745 SQN(CG), CGAE PORTBLAIR		
140	L140	S072	DHQ-9/ ICGS (DGP)	9. The Commander	Arun Singh Dayal
				Coast Guard Distt HQ – 09	Mob. 9400505260
				Aerial Bay, Diglipur	
				Andman & Nicobar – 744 202	
141	L141	S073	DHQ-10/ ICGS (CBL)	10. The Commander	Vela Morti, U/Adh
				Coast Guard Distt HQ – 10	Mob. 9442236071
				Camp Bell Bey	
				Andaman & Nicobar – 744 302	
142	L142	S074	ICGS (MYB)	The Commanding Officer	Chandan U/Adh
				Coast Guard Station – Mayabunder	Mob. 9798422423
				Near MGG College, Rampur Village	
				Mayabunder (North & Middle Andaman) – 744204	
143	L143	S075	ICGS(KAM)	The Commanding Officer	Jitender,
				Coast Guard Station – Kamorta	Mob. 09571022626
				Kamorta, Nancowrie	
				A&N Islands – 744303	

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144	L144	S076	ICGS(HBY)	The Commanding Officer	Ravi Das U/Nvk
				Coast Guard Station – Hutbay	Mob. 9426993507
				Hutbay Panchu Tikery	
				Little Andaman – 744102	
145	L145	S077	CGSD (Kochi)	3. The Office-in-Charge	LandLine Number
				Coast Guard Store Depot (Kochi)	0484-2226187
				6/1603 Lakshmi Niwas	
				New star Road	
				Mattancherry	
Kochi – 682002 (Kerala)					
146	L146	S077	CGSD (Kochi)		
147	L147	S078	CGDA	CGHQ ANNEXURE BUILDING (NEAR INDUS VALLEY PUBLIC SCHOOL),	Office Landline number
148	L148	S078	CGDA	C BLOCK, PHASE 2, INDUSTRIAL AREA, SECTOR 62, NOIDA, UP-201309	0120-2975734
149	L149	S079	PCDA	4. Office of the Principal Controller of Defence Account (PCDA)	Office Landline number
				5. No. 1 Cooperage Road ,	022-22802757
150	L150	S079	PCDA	6. Mumbai- 400 001	
151	L151	S080	CDA(Delhi)	The Controller of Defence Account (Navy/CG)	Office Landline number
				West Block-V, RK Puram Sector-1	011-26108401
				New Delhi – 110066	011-26194662/26163653
152	L152	S080	CDA(Delhi)		011-26100608 (F)
153	L153	S081	CDA (Kochi)	Controller of Defence Account, Kochi	Office Landline number
				Varghese Thittayil Road, Perumanoor, Thevara, Ernakulam, Kerala 682015	0484-2313626 (F)
					0484-2322601
					0484-2313626
154	L154	S081	CDA (Kochi)		0484-2313608 (EDP)
155	L155	S082	CDA (Chennai)	Building no. XXXV, Old	Office Landline number

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				INS Adyar Building, Fort St.George	Office Landline number
				Chennai-600018	044-25673015(F)
					044-25675269
156	L156	S082	CDA (Chennai)		044-25678195
157	L157	S083	CDA (Vizag)	Area Account Office Gajuwaka Main Road, Kakani Nagar, Visakhapatnam, Andhra Pradesh 530067	
158	L158	S083	CDA (Vizag)		
159	L159	S084	CDA (Kolkatta)	INS Netaji	Office Landline number
				Subash, Hastings, Nofia	033-22233717 (F)
160	L160	S084	CDA (Kolkatta)	Road Kolkata-700022	033-22130035(T)
161	L161	S085	CDA (Port Blair)	The Accounts Officer	Office Landline number 03192- 233200, 231060
				O/o The Asst.	
				Controller of	
				Accounts (Navy)	
				Buniyadabad	
162	L162	S085	CDA (Port Blair)	Port-Blair-744102	
163	L163	S086	CDA (Goa)	Shanti Nagar, Naval Base	Office Landline number
				Air Port Road	0832-2531066 (F)
				Vasco-Da-Gama,	0832-2531066
164	L164	S086	CDA (Goa)	Goa-403804	
165	L165	S087	CDA (Karwar)	CDA Karwar	Office Landline number
				501/1 NH-17, Naval Base Post Office, Arga	08382-233146
166	L166	S087	CDA (Karwar)	Karnatka-581308	08382-263646
167	L167	S088	Vizag Chetak Flight	Vizag Chetak Flight	N Singh, P/Nvk
				C/o INS Dega	Mob. 7904879395
				Vizag Airport, South Gate	
168	L168	S088	Vizag Chetak Flight	Vizag	
169	L169	S089	CGRPT (Vizag)	The Superintendent	T Gupta, SE
				Coast Guard Refit Production Team(Vizag)	Mob. 8667835017
				C/o Hindustan Ship yard Ltd Gandhigram (Post)	
				Vizag – 530005	
170	L170	S089	CGRPT (Vizag)		

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171	L171	S090	CGRPT (Kolkata)	The Superintendent	Office telephone number
				Coast Guard Refit Production Team (Kolkatta)	033-24694482
				C/o M/S Garden Reach Ship Engineers ,43/46 Garden Reach Road	
				Kolkatta – 700 024	
172	L172	S090	CGRPT (Kolkata)		
173	L173	S091	CGRPT (Goa)	1. The Superintendent	Bhola, P/Nvk
				Coast Guard Refit & Production Team (Goa)	Mob. 9675147272
				C/o M/S Goa ship yard Ltd	
				Vasco-Da-gama	
			Goa – 403 802		
174	L174	S091	CGRPT (Goa)		
175	L175	S092	CGRPT (Kochi)	2. The Superintendent	E Prasad, PSE
				Coast Guard Refit Production Team (Kochi)	Mob. 9404503512
				C/o Kochi Shipyard Ltd	
				Room No. 3-6, Dock House	
				Perumanoor Post	
			Kochi- 682015		
176	L176	S092	CGRPT (Kochi)		
177	L177	S093	CGRPT (Chennai)	3. The Superintendent	Mahabir, P/Adh
				Coast Guard Refit & Production Team(CH)	Mob. 8925274586
				C/o L& T Shipbuilding Limited	
				Kattupalli village	
				Ponneri Taluk	
				Tiruvallur Dist	
			Tamilnadu – 600120		
178	L178	S093	CGRPT (Chennai)		
179	L179	S094	CGRPT (Pipav)	4. The Superintendent	Rakesh Kumar, U/Nvk
				Coast Guard Refit & Production Team(PPV)	Mob. 7727822425



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				C/O ICGS Pipavav, Jafrabad RD, Hindorna Chowk, PB NO. 41, Amreli	
180	L180	S094	CGRPT (Pipav)	Gujarat- 365560	
181	L181	S095	PRT (West)	The Office-in-Charge	Biswajit Dutta, PSE
				Coast Guard Pollution Response Team (W)	Mob. 7377204952
				Shed No. 03	
				New Ferry Wharf	
				Mumbai – 400 009	
182	L182	S095	PRT (West)		
183	L183	S096	PRT (East)	1. The Office-in-Charge	Suhail S, U/Ytk
				Coast Guard Pollution Response Team (East)	Mob. 9495428521
				C/o ICGRHQ (East)	
				Near Napier Bridge	
				Chennai – 600 009	
184	L184	S096	PRT (East)		
185	L185	S098	CGSD (PBD)	7. The Office-in-Charge	Jay Prakash Mishra, P/Adh
				Coast Guard Store Depot (PBR)	Mob. 9975610468
				C/o CGDHQ – 1	
				Post Box No. 25	
				Porbandar – 360575	
186	L186	S098	CGSD (PBD)		
187	L187	S099	ACV 73 SQN	73 ACV SQN, BELAPUR, NAVI MUMBAI- 400640	BR Dukka, P/Ytk
188	L188	S099	ACV 73 SQN		Mob. 9484606809
189	L189	S100	CG Jetty, Murmugoa Port Trust	The Commander	Rajesh, P/Adh
				Coast Guard Distt HQ – 11	Mob. 9429120653
				4 <sup>th</sup> floor, MPT Old Admin Bldg Mormugao Harbour	
				Goa – 403 803	
190	L190	S100	CG Jetty, Murmugoa Port Trust		
191	L191	S101	ICG IDC (MPLS Cloud)	Coast Guard Headquarters, C/o ICGS Delhi, National Stadium Complex, Near Gate NO. 7	Office telephone number

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192	L192	S101	ICG IDC (MPLS Cloud)	New Delhi - 110001	011-23115243
193	L193	S097	ICG IDC (IDC-DC link)		
194	L194	S097	ICG IDC (IDC-DC link)		
195	L195	S108	CG DR (MPLS Cloud)	New Mangalore	Somveer, PSE
196	L196	S108	CG DR (MPLS Cloud)		Mob. 8307513063/ 7989498687
197	L197	S021	CG DC (MPLS Cloud)	Mahipalpur, Delhi NCR	
198	L198	S021	CG DC (MPLS Cloud)		
199	L199	S102	CG DC (DC-DR link)		
200	L200	S102	CG DC (DC-DR link)		
201	L201	S109	Inter-MPLS-link		
202	L202	S109	Inter-MPLS-link		
203	L203	S103	69 ACV SQN	C/O DHQ-15, Okha Port, Jamnagar Dist, Gujrat- 361350	J Senthil Murugan, USE
204	L204	S103	69 ACV SQN		Mob. 9757219057
205	L205	S104	CGAE (MNG)	CGAE New Mangalore, Mangalore International Airport, Old Terminal Building, Bajpe	Athul R, P/Nvk
206	L206	S104	CGAE (MNG)	PIN- 574142	Mob. 9427008028
207	L207	S105	CGAS (RTI), Ratnagiri	The Commanding Officer	Vinod Kumar, P/Ytk
				Coast Guard Air Station – Ratnagiri	Mob. 9408064502
				Airport Building, MIDC area	
				Ratnagiri Air Port, Ratnagiri Maharashtra – 415639	
208	L208	S105	CGAS (RTI), Ratnagiri		
209	L209	S106	79 ACV	ACV Sqn C/O ICGS Mandapam, near Railway Stn,	Lokesh Kumar, U/Nvk
210	L210	S106	79 ACV	Ramnathapuram Dist, TN-623518	Mob. 8901533003