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तटरक्षक वायु सामग्री भंडार (गोवा)
Coast Guard Air Store Depot(Goa)
(आई एस ओ 9001:2008 प्रमाणित)
(An ISO 9001:2008 organisation)
दाबोलिम,गोवा-403801
Dabolim, Goa -403801

Reply should be addressed to
The Officer-in-Charge, CGASD (Goa)

Quoting: CGASD/EOI/AIMS/01/17-18

08 Aug 17

INVITATION OF EXPRESSION OF INTEREST
PROCUREMENT & FITMENT OF ADVANCED INVENTORY MANAGEMENT SYSTEM
(AUTOMATED STORAGE & RETRIEVAL SYSTEM) AT COAST GUARD AIR STORE
DEPOT (GOA)

Sir,

1. It is intimated that on behalf of President of India, The Officer-in-Charge, CGASD (Goa) invites "**Expression of Interest**" from the reputed manufacturers with proven track record and having state of art manufacturing & quality assurance systems for manufacturing and supply of following for **Coast Guard Air Store Depot (Goa)**. This EOI is being issued for enlisting the vendors after due technical & commercial evaluation of their capability to manufacture/install the items appended below. Based on this, the enlisted vendors will be eligible for issuance of RFP against regular requirement (as and when arises) for the below mentioned item.

Location	Location details/Numbers	Type of storage system proposed	Quantity
SE&FC warehouse (Main building)	1 Room	AIMS	2
Chetak & ALH store (Main building)	1 Room	AIMS	4
Ground Floor Store Room (Main Building)	1 Room	AIMS	2
Warehouse 4 (Other unit building)	1 Room	AIMS	4

Sl.	Description
(a)	Provisioning and fixing of Qty 12 in number Advanced Inventory Management System (Automated Storage and Retrieval System) in 04 (four) ware houses of Coast Guard Air Store Depot (Goa) including training of complete system and moving & installation of compactors from SE&FC warehouse to Dornier warehouse and CTK & ALH warehouse to Main warehouse-I. Specifications, technical details and locations are mentioned

in succeeding paragraphs.			
SI.	Description of Item in Details	Qty (in Nos)	Remarks
(aa)	Advanced Inventory Management System (with in-built air conditioner in each AIMS) with Installation for SE & FC warehouse (Main Building)	02 (Total 14 Trays)	Existing Storage System/Compactor is required to be moved & fitted at Dornier warehouse prior installation of AIMS
(ab)	Advanced Inventory Management System with Installation for CTK & ALH warehouse (Main Building)	04 (Total 14 Trays)	Existing Storage System/Compactor is required to be moved & fitted at Warehouse-I prior installation of AIM
(ac)	Advanced Inventory Management System (with in-built air conditioner in each AIMS) with Installation for Ground Floor Store Room (Main Building)	02 (Total 12 Trays)	--
(ad)	Advanced Inventory Management System (with in-built air conditioner in each AIMS) with Installation for Warehouse-IV (Other Unit Building)	04 (Total 18 Trays)	--
(ae)	Air Conditioner	08	--
Load Carrying capacity of each tray – min 300 Kgs			
<p>* Automatic Control operation includes the effort and design know how that will be put to use to optimize the storage, enabling movement of externally stored goods into the Warehouse on the ground floor and reorganize and restructure the inventory storage for maximizing benefits.</p> <p>* Provision for manual Operation in case of power failure</p>			

2. **ELABORATED TECHNICAL SPECIFICATIONS FOR PROCUREMENT AND FITMENT OF ADVANCED INVENTORY MANAGEMENT SYSTEM**

SE&FC STORE QTY 02 WITH 14 TRAY:

SI.No.	Parameter	Specification
1	Machine Width	3500(+100) mm
2	Machine Height	4300(+100) mm
3	Machine Depth	1600(+100) mm + 450 mm
4	Tray Int. Size	2940(W)X 400(D)X 400(H)

5	Tray Dead Weight	47 Kg (Approx.)
6	Surface Area of Tray	1.18 SQ.MTRS
7	Total Surface Area available to store Material	16.52 SQ. MTRS.
8	Per Tray Weight Capacity	300 KG
9	Tray Quantity	14 Nos
10	Usable Net Load	4.2 Tons
11	Gear Box & Motor 3 Ph 1440 rpm	Siemens Make or Equivalent
12	Chain	Diamond Make or Equivalent
13	Bearing	SKF / NTN Make or Equivalent
14	Control Panel	Tech-Mark Make
15	Power Supply	440v, 50/60 Hz. 3 Phase
16	Power Consumption	3.72 KW
17	Machine Base	5.6 SQ. MTRS
18	Epoxy Powder Coated Parts	With 1 years warrant
19	Electrical & Electronics Parts	Of Reputed Make.
20	Opening Door	Manual Door

CTK & ALH STORE QTY 04 WITH 14 TRAY:

Sl.No.	Parameter	Specification
1	Machine Width	3500(\pm 100) mm
2	Machine Height	4300(+100) mm
3	Machine Depth	1600(\pm 100) mm + 450 mm
4	Tray Int. Size	2940(W)X 400(D)X 400(H)
5	Tray Dead Weight	47 Kg (Approx.)
6	Surface Area of Tray	1.18 SQ.MTRS
7	Total Surface Area available to store Material	16.52 SQ. MTRS.
8	Per Tray Weight Capacity	300 KG
9	Tray Quantity	14 Nos
10	Usable Net Load	4.2 Tons
11	Gear Box & Motor 3 Ph 1440 rpm	Siemens Make or Equivalent
12	Chain	Diamond Make or Equivalent
13	Bearing	SKF / NTN Make or Equivalent
14	Control Panel	Tech-Mark Make
15	Power Supply	440v, 50/60 Hz. 3 Phase
16	Power Consumption	3.72 KW
17	Machine Base	5.6 SQ. MTRS
18	Epoxy Powder Coated Parts	With 1 years warranty
19	Electrical & Electronics Parts	Of Reputed Make.
20	Opening Door	Manual Door

GROUND FLOOR STORE ROOMQTY 02 WITH 12 TRAY.

Sl. No.	Parameter	Specification
1	Machine Width	3000(+100) mm
2	Machine Height	3800(+100) mm
3	Machine Depth	1600(+100) mm + 450 mm
4	Tray Int. Size	2940(W)X 400(D)X 400(H)
5	Tray Dead Weight	47 Kg (Approx.)
6	Surface Area of Tray	1.18 SQ.MTRS
7	Total Surface Area available to store Material	14.16 SQ. MTRS.
8	Per Tray Weight Capacity	300 KG
9	Tray Quantity	12 Nos
10	Usable Net Load	3.6 Tons
11	Gear Box & Motor 3 Ph 1440 rpm	Siemens Make or Equivalent
12	Chain	Diamond Make or Equivalent
13	Bearing	SKF / NTN Make or Equivalent
14	Control Panel	Tech-Mark Make
15	Power Supply	440v, 50/60 Hz. 3 Phase
16	Power Consumption	3.72 KW
17	Machine Base	4.8 SQ. MTRs
18	Epoxy Powder Coated Parts	With 1 years warranty
19	Electrical & Electronics Parts	Of Reputed Make.
20	Opening Door	Manual Door

WARE HOUSE NO 4QTY-02 WITH 18 TRAY:

Sl. No.	Parameter	Specification
1	Machine Width	3000(+100) mm
2	Machine Height	5300(+100) mm
3	Machine Depth	2100(+100) mm + 450 mm
4	Tray Int. Size	2940(W)X 650(D)X 400(H)
5	Tray Dead Weight	47 Kg (Approx.)
6	Surface Area of Tray	1.911 SQ.MTRS
7	Total Surface Area available to store Material	34.40 SQ. MTRS.
8	Per Tray Weight Capacity	300 KG
9	Tray Quantity	18 Nos
10	Usable Net Load	5.4 Tons
11	Gear Box & Motor 3 Ph 1440 rpm	Siemens Make or Equivalent
12	Chain	Diamond Make or Equivalent
13	Bearing	SKF / NTN Make or Equivalent
14	Control Panel	Tech-Mark Make
15	Power Supply	440v, 50/60 Hz. 3 Phase
16	Power Consumption	3.72 KW
17	Machine Base	7.35 SQ. MTRs
18	Epoxy Powder Coated Parts	With 1 years warranty

19	Electrical & Electronics Parts	Of Reputed Make.
20	Opening Door	Manual Door

SCOPE & FEATURES FOR AIMSADVANCED INVENTORY MANAGEMENT SYSTEM:-

- (a) The most modern and cost efficient storage and retrieval system for today's industry.
- (b) Use of the complete available height for storage.
- (c) Works on a simple Paternoster principle.
- (d) Works on a two vertical chain loop mechanism, which is electrically driven.
- (e) A sheet metal cladding ensures protection this assembly.
- (f) A window is provided at ergonomic level for easy loading and unloading of material.
- (g) Entire control using a PC based software with versions for inventory and document management, a PLC controller and an emergency manual mode.
- (h) The system is available from 2m to 20m.
- (j) Modular construction.
- (k) Specially designed trays to suit shape, dimensions and weight of the material to be stored.
- (l) Low noise due to well-engineered guiding mechanism using high quality bearings.
- (m) Fast retrieval due to higher speed and shortest path logic built in.
- (n) Low power consumption due to energy efficient motor and other components.
- (p) More compact design compared to other equivalent systems to save floor space.
- (q) Higher up time due to proven design and reliable manufacturing.
- (r) Ease of interface of the bundled software with existing systems, ERP, Warehouse Management Systems.
- (s) The AIMS will enable area to stock more stores in available space. **The provisioning of AIMS will help proper** utilization of space including height available in warehouses for storing of valuable aviation inventory. The AIMS will also cater for expansion of Depot Inventory for future plans with existing space.

(t) The AIMS provides custom designed trays to suit shape, dimensions and weight of the material to be stored. **Ease of interface of the bundled software with existing systems, future ERP and Warehouse management system.** It will give the user **full control of the storage and retrieval process** through a single and simple browser based interface including the physical storage and retrieval options. It will have full control over the parts and inventory data along with their storage locations, retrieval times and other details and also facilitate to import complete data into the system with real time inventory system.

DETAILS OF THE CONTROL PROVIDED FOR THE SYSTEM:

SYSTEM OPERATION:

- (a) Manual Operation Mode
- (b) Through PLC provided within the machine with HMI.
- (c) Manual Up/ Down.
- (d) Through External computer the AIMS will be operational in following types:
 - (i) Component No. calling operation.
 - (ii) List mode operation.
 - (iii) Tray No. calling operation.

2. **Please note that only comments/queries need to be forwarded and no “Budgetary quote” is to be forwarded. Forwarding of budgetary offer will disqualify the concerned firm from the tendering process.**

3. The conduct of installation of above-mentioned system including other general conditions, payment terms, etc. will be governed in accordance with provisions of **Defence Procurement Manual** in vogue.

4. For details of installation of the AIMS, you are requested to contact “The Deputy Officer-in-Charge, CGASD (Goa), Goa (Tele no. 0832-2532952) to ascertain availability and clearance to visit the office.

5. It is intimated that a Request for Information Conference (RFIC) will be held at CGASD (Goa), Goa to discuss/clarify the scope of work and to bring all the participating firms at par. It may be noted that the date and venue of RFIC will be intimated by CGASD (Goa) later.

6. It is also desired that suitable reps may be deputed for attending the RFIC on receiving intimation from CGASD (Goa). Alternatively, a communication may be sent to CGASD (Goa) that you would accept the work package as finalized during the RFIC.

7. It may be noted that RFP will be issued to all those firms who have not conveyed their unwillingness to undertake the work in accordance with provisions of DPM, irrespective of whether they attend the RFIC or not. As such, if you do not wish to undertake the work you should communicate it in writing before the RFIC take place.
8. You are required to submit an overview (within 30 days from the date of this publication) about their company like manufacturing capabilities, financial standing etc. This shall be scrutinized by CGASD (Goa) before issue of relevant drawing, technical documents, etc.
9. After obtaining relevant technical documents and drawings of the items from CGASD (Goa), the vendors are requested to study the drawing and technical documents thoroughly. If felt necessary the vendor's representative may visit the CGASD (Goa) with prior appointment to understand exact requirement.
10. Vendors are required to submit "Expression of Interest" along with the following information in detail within **30 days** from the date of issue of EOI.
- (a) Manufacturing plan and QA plan for the subject Item
 - (b) Manufacturing facilities including machines, capacity, trained manpower etc.
 - (c) Testing facilities
 - (d) Quality system certification (s); preferably be ISO-9001 certified
 - (e) List of customers to whom similar types of items are supplied
11. If found qualified, the capacity verification will be done by CGASD (Goa) team.
12. Vendors who have qualified technically for the subject items will be eligible for issuance of RFP.
13. It is requested that your comments/queries for the said work as per the list mentioned above be forwarded to reach **Coast Guard Air Store Depot (Goa)** within **30 days** from the date of issue of **EOI**.




(Harender Rai)
Deputy Commandant
Deputy Officer-In-Charge
for Officer-in-Charge