

DCI intends to invite online tender on GeM portal regarding warehouse management software which includes the Radio Frequency Identification(RFID) technology as a part of Inventory control in DCI office across India as well as Integration with DCIL ERP software (Microsoft Dynamics 365 Finance & Operations on Premises).

In this regard, It is requested to provide your budgetary quote for supply of warehouse management software which includes RFID technology. A brief description of scope and the budgetary offer format is attached for your reference please.

Please note that the Budgetary quote should be valid for six months from the due date.

Requested to forward your budgetary quote on or before 01.12.2025

SCOPE OF WORK:

Description of the Work:

Implementation of Radio Frequency Identification Technology (RFID), as well as integration with Microsoft Dynamics 365 Finance & Operations on premises integration.

- a) To Visit On board DCI Dredgers working across india – if required.
- b) To segregate the list of Inventory stock of all the dredgers as mentioned in the BOQ given by DCIL and categorize as A (items more than 10 lakhs), B (between 5 lakhs to 10 lakhs) & C (Less than 5 lakhs) class items and finalise the required tags accordingly
- c) An web based solution/software to be designed & implement on board DCI Dredgers and Head office, stores available across india as well as to integrate with Microsoft dynamics 365 Finance & Operations on premises which keeps an eye on every movement carried out at entry and exit locations of each Dredger.
- d) Process flow in ERP – (a purchase order will be placed in ERP and the items will be received to various stores in India i.e for example to our warehouse in Chennai, against this we will be generating an MRV (material receipt voucher in ERP) and whenever there is a requirement of the spares for our vessels, then we will be generating an MIV(material issue voucher or transfer order) to the vessel warehouse. Now here the tagging will be done in our warehouses and the same will be forwarded to the vessel warehouse. Hence this entire process in ERP has to be parallely integrated with the RFID software. The designed software should Monitor and capture all the spares, from the receipt in warehouse to the consumption at on board Dredger.
- e) The project office officials including ship and shore staff at various locations in India should be able to track material movement & the stock status of spares on board.
- f) **Data Capture and Integration:** RFID system should capture data when spare parts move in and out , consumption and at all level of movement of spares. Integrate the captured data with the ERP system to update inventory and financial records as per company current practice.

- g) **Real-time Monitoring:** Implement a real-time monitoring dashboard to track spare parts movement, usage, and inventory levels. This helps optimize reordering and reduce stock outs.
 - h) **Data Accuracy and Quality:** Ensure the accuracy of RFID data by conducting regular audits and reconciliations. It should be Transparent and reliable data.
 - i) **Tagging and Labelling:** Attach RFID tags should enable easy tracking and identification. Supplied tags suitable for the maritime environment.
 - j) To submit Technical Specification, Methodology and detailed work scope with its requirements - hardware and software.
 - k) Dredgers will not have continuous internet connectivity. So designed software should work with Offline mode. Software should integrate with Microsoft Dynamics 365 Finance & Operations
 - l) Training session on Inventory , organising of Racks and stock arrangement , RFID tagging, Software application, to DCI ship staff engineers at onboard Dredgers as per which are located across the india .
 - m) Training session on RFID Software application for shore employees as per the BOQ.
 - n) Please note that the vendor, who is a partner or having a tie-up/collaboration with for Microsoft Dynamics 365 Finance & operations will be allowed to participate in the tender.
- Note: The above-mentioned scope is indicative in nature and the bidders are free to propose any additional point/ module/ solution which can be helpful to attain the overall objective of monitoring and better inventory Control with new initiatives.

Once IA/ Successful Bidder is selected, it will be his responsibility to manage end to end IT hardware/ software operations for the Purchaser so that suitable decisions shall be taken for better Inventory Control.

Please note that Budgetary offer can be submitted to the following email ID's punemsujith@dcil.co.in , durgaprasad@dcil.co.in .

BUDGETORY OFFER

SL NO	DESCRIPTION	QTY (A)	UOM	Unit Price (B)	Total Amount (C = A*B)
1	<p>Software Installation for seven vessels (DCI Dr XII, XIV , XV, XVI, XVII, XIX, XX, MNO, CSC, Kolkata, Kochi project office / godowns)</p> <p>Custom RFID Application or web-based Software with License with free onsite support for 1 Year. Mobile APP Software consisting of Customized RFID Solution Software tailored to meet inventory management need. Integration with Microsoft Dynamics 365, Danose PMS software & ID tech RFID software for data synchronization. Interface for initiative data entry, tracking & reporting.</p> <p>Live dashboard for real-time inventory visibility, alerts and notifications. Advanced analytics and report for data-driven decision-making. Compatibility with RFID tag formats and reader devices.</p> <p>Integration to Microsoft Dynamics 365, Danose PMS software & ID tech RFID software for streamlined data management. Automatic synchronization of RFID data with inventory records in Microsoft Dynamics 365 ERP, Danose PMS software & ID tech RFID software. Real-time updates on inventory levels, stock movements and item locations. Advanced reporting and analytic capabilities within the Microsoft Dynamics 365 ERP platform. Enhanced data accuracy, eliminating manual data entry and potential errors. Offline based applications at local server. Free onsite support for customized RFID Software for 1 Year.</p>	1	Lumpsum		
2	RFID Label Printing License Software per printer One Time with free onsite support for 1 Year.	1	Lumpsum		
3	Installation, Commissioning and freight charges for RFID Software , Hardware supply and Support at onboard DCI Dr XII, XIV , XV, XVI, XVII, XIX, XX, MNO, CSC, Kolkata, Kochi project office / godowns located at Kolkata / Haldia, Kochi, Mangalore, Kandla, Paradip, Chennai and other locations across india.	11	Nos		
4	Training session on Inventory , organising of Racks and stock arrangement , RFID tagging, Software application, to DCI ship staff engineers at onboard DCI Dr XII, XIV , XV, XVI, XVII, XIX, & XX, which is located at Kolkata or Haldia for 28 days, excluding travelling days .One set of training manual to be submitted at onboard DR XXI.	11	Nos		
5	<p>Training session on RFID Software application for shore employees at DCI Head office (CSC) at Visakhapatnam, Kochi project office, Kandla, Pardip and Kolkata (Balmer) for 2 days, Excluding travelling days.</p> <p>Three set of training manual to be submitted to Materials department at DCI Head office.</p>	1	Lumpsum		
6	<p>Industrial Tab 8 to 10 inches</p> <p><u>Specifications in details</u></p> <p>Durable ruggedized tablet with built in RFID reader for on the go inventory management. Touch screen for easy data entry and retrieval. Long battery life, wireless connectivity options and robust construction. Rear Camera with minimum of 15 MP and front camera of 5 to 10 MP. It should have GPS support. It should have</p> <p>Nano slim slot and extendable memory provision Ram 8 GB Ram and Internal Memory 256 GB. Pouch or cover for easy carry Android</p>	2	NO		
7	Other Components of Reputed brands Wireless RFID Handheld Reader for DCI Dr XII, XIV , XV, XVI, XVII, XIX, XX, MNO, CSC, Kolkata, Kochi project office / godowns consists of RFID handheld reader for rapid and accurate scanning of RFID tags. Long reading range and high read accuracy for efficient inventory management. Ergonomic design for comfortable usage and extended battery life. It should also integrate with the Wifi. It should read minimum 500 to 1000 tags per second. Range 20 plus feet read range, and ultra-accurate item finder mode. Battery Capacity 7000 mAh and a quick release function that's accessible without removing the mobile computer. The tri function trigger lets associates quickly access RFID reading, barcode scanning and a programmable third function, such as the enter key or push talk. Bluetooth Facility	20	NOS		

8	RFID Desktop Printer with all consumables like Printer ribbon rolls, barcode Label rolls & RFID paper Label tag rolls. High-performance RFID printer capable of encoding and printing RFID tags.Support for multiple tag formats. Integration with the RFID Solution software for seamless tag encoding and printing.Printer should be compatible with the existing Computers laptop and industrial tab. 4.3 inches full colour display with intuitive menu Integrate to existing wired or wireless networks or connect them directly to PC. It should print from any windows, Android or IOS device.	2	NO		
10	RFID M6 Paper Label (Non-Metal) ,Quantities are tentative and may vary at onboard while implementation	11000	NOS		
11	RFID Metal on Sticker/Megatron Metallic Tags, Quantities are tentative and may vary at onboard while implementation	1100	NOS		
12	RFID Mhard Tags with Cable Tie, Quantities are tentative and may vary at onboard while implementation	11000	NOS		
Total (D)					0
GST @ ___% E=D*GST %)					
Grand Total (F = D+E)					0