

## 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 Dr XXI deployed at Kolkata/Haldia – if required.
- b) To segregate the list of Inventory stock of DCI DR XXI 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) A web based solution/software to be designed & implement on board DCI DR XXI, and Head office, as well as integrated 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) The designed software should Monitor and capture all the spares, from the receipt to 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 in Offline mode. Software should be integrated 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 on board DR XXI for a period of 28 days (excluding travelling days) which is located at Kolkata or Haldia .One set of training manual to be submitted at on board DR XXI.
- m) Training session on RFID Software application for shore employees at DCI Head office (CSC) at Visakhapatnam Kolkata (Balmer Godown) for 2 days at each location (excluding travelling days).One set of training manual to be submitted to Materials department at DCI Head office.

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.