



DEENDAYAL PORT AUTHORITY

(Erstwhile 'Kandla Port Trust')

Chief Mechanical Engineer
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E-mail – cme@deendayalport.gov.in

Date - 02.06.2025

To,

Subject: Drone-in-a-Box (DiaB) system for 24 x 7 surveillance across Kandla complex - reg.

Sir,

Deendayal Port Authority (DPA) intends to procure Drone-in-a-Box (DiaB) system for 24 x 7 surveillance across Kandla complex.

The system will provide autonomous patrols, instant response to securing threats and integration with central command center for live monitoring and decision making.

Objective of this project will be to enhance security and situational awareness at industrial and critical infrastructure zones through an automated drone surveillance network capable of:

Continuous aerial patrols,
Quick threat detection,
Automated reporting and alerts and,
Integration with existing security infrastructure.

Proposed installation will resolve the existing limitations of:

- (1) Restricted line-of-sight,
- (2) Delayed response from manned patrols,
- (3) High manpower dependency and recurring costs,
- (4) Inconsistent incident tracking.

System Components:

- (1) Autonomous Drone Unit (with day/night & thermal cameras),
- (2) Drone-in-a-Box Station (with auto-charging, weatherproofing),
- (3) Command & Control Dashboard,
- (4) Maintenance & Support Plan.

Features required:

- Fully Autonomous operation via remote access & Precision Landing
- Automatic Charging and Battery swapping
- Built in AI & Data Processing & Fully encrypted data
- PoVJer Backup
- Modular & 2 Point Contact
- Integrated HVAC System & IP Rating – IP 66
- Automated & 360 degree aerial coverage
- Instant response with Thermal imaging / support for night operations,

- Data recording: Cloud storage video + Real time alerts
- Flammable and Hazardous chemical; sensor integration
- Area of surveillance: 600 meter radius
- Collection of air samples & generate AQI & Chemical concentration data
- Dashboard features:
 - Real time Data collection: Live operation (surveillance, mapping, inspections) data feed from Drone
 - Single platform to monitor drone activity and control multiple drones remotely
 - Data visualization: Collected data incl. images, videos, metrics presented through interactive charts, maps, and reports for ready interpretation
 - Real time automated alerts for specific events or anomalies (e.g. detected changes, equipment malfunctions)
 - Storage of Historical data and retrieval for comparison, analysis & reporting.
 - Customized Interface: Options to personalize the dashboard layout, filter views, and setting of parameters as per project needs.
 - Integration with Dashboard for AI/ML algorithms for automated analysis, such as identifying patterns, assessing risks, or recommending actions.
 - Cloud based access: Accessible from anywhere with a secure internet connection, providing mobility and flexibility
 - Permit to multiple users to collaborate in real-time, share insights, and make informed decisions
 - Generations of detailed reports in various formats – PDF / Excel / Word etc.
 - Live incident reporting & autonomous Mission Planning.
 - Automatic tracking and use of AIs for detect of non-compliance of PPEs, restricted entries, dumping activities in sea, Gas Leak detection etc.

Scope of Work:

- System Deployment: Strategic location setup and integration
- Scheduled Aerial Patrols: Pre-defined routes and timing
- Real-Time Alerts & Monitoring: Dashboard for live feed and analytics
- Threat Response: Rapid drone launch on anomaly detection
- Maintenance & Support: Uptime monitoring, repairs and upgrades.

Timeline: 3 months from issuance of Supply Order.

Please submit your Expression of Interest and supporting documents, as per Annexure electronically to cme@deendayalport.gov.in by 16.06.2025.

This Expression of Interest does not constitute a commitment to purchase, and DPA reserves the right to accept or reject any EOI without assigning any reason whatsoever.

Thanking you,

Yours faithfully,

-sd-

Chief Mechanical Engineer
Deendayal Port Authority

Submission to be made with Expression of Interest**Credentials of Firm**

Sr.	Description	Inputs to be filled in
1.	Name of Firm	
2.	GST No.	
3.	Whether Similar Work has been executed? If Yes, please provide the details of (a) Details of Drone / Surveillance system (b) location and (c) employer of referred system.	
4.	Please share the copy of Work Order / Completion Certificate of referred work.	

Budgetary Offer

Sr.	Description	Unit	Qty.	Rate	Amount for the Qty.	
					in figures	in words
1	Drone-in-a-Box (DiaB) Unit <i>Including Drone, Box, software, sensors etc.</i>	Nos.	2			
2	Installation & Integration <i>Including site survey, setup and configuration.</i>	Lot	1			
3	Annual Maintenance <i>including Hardware, software, technical support, Training (Remote & onsite) & Handover</i>	Months	12			
Total						

(Total Rupees _____ Only)

GST Charges shall be extra.

Payment Terms

All payments will be made through RTGS.

(1) For items at Sr. No. 1:

(a) On receipt of material at DPA site:

Seventy percent (70 %) of the item rate mentioned in Budgetary Offer shall be paid after receipt of the same at DPA site in good condition and after certification by Nodal Officer & TPIA.

(b) Installation & Integration:

Twenty percent (20 %) of the item rate mentioned in Budgetary Offer shall be paid against Installation & Integration after certification by Nodal Officer & TPIA.

(c) Upon final taking over:

Ten percent (10 %) of the item rate mentioned in Budgetary Offer shall be paid upon certification of Nodal Officer & TPIA and acceptance & final taking over of the Complete system by DPA.

- (2) For item at Sr. No. 2: 100 % payment will be released on completion of job and certification of Nodal Officer & TPIA.
- (3) Payment for Sr. No. 3 will be on monthly basis.

-sd-

Chief Mechanical Engineer
Deendayal Port Authority

Sign. & Seal of Contractor

Place: _____

Date: _____