

TENDER DOCUMENT FOR

PROCUREMENT OF HARDWARE FOR GPS TRACKING DEVICES, GPS-BASED DASHCAM DEVICES, QR CODES, AND COMMAND CENTRE EQUIPMENT

Tender for "Supply, Installation & Commissioning of Hardware for Digital Sanitation Monitoring System in respect of Dhenkanal Municipality"

Ref. No.: 640

Date: 05/03/26

DISCLAIMER

The information contained in this Tender document or subsequently provided to Bidder(s), in documentary or any other form, by or on behalf of The Executive Officer, Dhenkanal Municipality is provided to Bidder(s) on the terms and conditions set out in this document and such other terms and conditions subject to which such information is provided.

This Tender is not an agreement and is neither an offer nor an invitation by The Executive Officer, Dhenkanal Municipality to the prospective Bidders or any other person. The purpose of this Tender is to provide interested parties with information that may be useful to them in the formulation of their bids.

The Executive Officer, Dhenkanal Municipality makes no representation or warranty and shall have no liability to any person, including any Bidder, under any law, statute, rules or regulations for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this Tender document.

The Executive Officer, Dhenkanal Municipality may in its absolute discretion but without being under any obligation to do so, update, amend or supplement the information contained in this Tender.

The issue of this Tender does not imply that The Executive Officer, Dhenkanal Municipality is bound to select any Bidder and reserves the right to reject all or any of the Bids without assigning any reasons whatsoever.

The Bidder shall bear all its costs associated with the preparation and submission of its Bid. All such costs and expenses will remain with the Bidder and The Executive Officer, Dhenkanal Municipality shall not be liable in any manner whatsoever for the same.

IMPORTANT DATES & INFORMATION FOR TENDER

Tender Floating Body	The Executive Officer, Dhenkanal Municipality
Tender Floating Authority	Office of The Executive Officer, Dhenkanal Municipality, Dhenkanal, PIN-759001 Website: www.dhenkanalmunicipality.com E-mail: dhenkanalm.hud@gmail.com
Amount Details	
Bid Security / EMD (INR)	Rs. 50,000/- (Rupees Fifty Thousand Only) by DD. Registered MSMEs with valid Udyam Registration are EXEMPTED from EMD.
Bid Security / EMD in favor of	The Executive Officer, Dhenkanal Municipality
Paper Cost (INR)	Rs. 5,000/- (Rupees Five Thousand Only) by DD
Paper Cost in favor of	The Executive Officer, Dhenkanal Municipality
Tender Dates	
Bid Document Procurement Start Date	07 / 03 / 2026 10:00 AM
Last Date & Time for Receipt of Bids	13/ 03 / 2026 01:00 PM
Date and Time of Opening Technical Bid	13 / 03 / 2026 at 03:30 PM
Bid Validity Period	120 days
Submission of documents	Technical Bid and Other Documents to be submitted at Office of The Executive Officer, Dhenkanal Municipality, Dhenkanal, PIN-759001
Submission in sealed packets	Packet A: Technical Evaluation related documents along with EMD & Paper Cost. Packet B: Financial Proposal

1. INTRODUCTION & BACKGROUND

Dhenkanal Municipality is implementing a comprehensive Digital Sanitation Monitoring System (DSMS) to enhance transparency, efficiency, and real-time monitoring of its sanitation operations across all wards.

As part of this initiative, The Executive Officer, Dhenkanal Municipality seeks to procure, install, and commission hardware equipment including GPS Tracking Devices for Tractors, GPS-based Dashcam Vehicle Tracking Devices for LCVs, boards for household-level monitoring, and Command Centre display equipment.

This tender pertains exclusively to the HARDWARE PROCUREMENT component of the project. The software development, mobile application, and web platform are covered under a separate RFP.

2. SCOPE OF SUPPLY

The scope of this tender covers the supply, installation, testing, commissioning, and warranty support of the following hardware items:

2.1 GPS Tracking Devices (for Tractors)

The bidder shall supply and install plain GPS Tracking Devices with 4G SIM support on 10 designated Tractors of Dhenkanal Municipality. The devices must meet the following minimum technical specifications:

Connectivity:

1. Cellular: 4G LTE connectivity for real-time data transmission and location updates.
2. GPS: Built-in GPS module with real-time location tracking, route mapping, geo-fence monitoring, speed monitoring, route playback, and deviation alerts.
3. SIM Support: In-built 4G SIM slot with support for data transmission.

Power & Durability:

1. Power Supply: Designed to connect directly to vehicle power system (DC 9V-36V range).
2. Internal Battery: Built-in backup battery for continued tracking after power loss.
3. Operating Temperature: Built to withstand -20°C to +70°C.
4. IP65 or higher rated enclosure for dust and water resistance.

Features:

1. Real-time vehicle tracking with configurable reporting intervals.
2. Ignition on/off detection.
3. Over-speed, geo-fence entry/exit, and route deviation alerts.
4. Trip history and route playback.
5. Tamper alert and tow alert.

Quantity: 10 Nos. (for 10 Tractors)

Warranty: Minimum one year warranty from the date of installation and commissioning. The bidder shall provide onsite warranty support.

2.2 GPS & Dash-cam Based Vehicle Tracking Devices (for LCVs)

The bidder shall supply and install GPS-based Dashcam devices on 30 designated LCVs (Light Commercial Vehicles) of Dhenkanal Municipality. The devices must meet the following minimum technical specifications:

Camera Configuration :

1. Dual-Facing: Road-facing and driver/cabin-facing cameras.
2. Multi-Camera Support: For 360-degree visibility.
3. Resolution: High Definition (HD) minimum.
4. Night Vision: Infrared (IR) LEDs to ensure visibility in low light conditions.
5. Field of View (FOV): Wide-angle lenses as standard (e.g., 120-150 degrees).

Storage:

Local Storage: SD card based for continuous loop recording (minimum 64GB).

Cloud Storage: To record event videos (triggered by harsh driving, AI detection, or manual buttons) via cellular connection.

Connectivity:

1. Cellular: 5G LTE / 4G connectivity as standard for real-time data transmission, live streaming, and cloud uploads.
2. GPS: Built-in GPS location tracking with snap to road, ETA calculation, route optimization, route mapping, deviation alert, geo-fence monitoring, speed monitoring, and route playback.
3. WiFi: Included for configuration, local data download, or connecting to vehicle hotspots.
4. Bluetooth: Included for specific functionalities or connections.

Sensors & Processing:

G-Sensor: Built-in accelerometer and gyroscope (6-axis minimum) to detect harsh events (braking, acceleration, cornering) and impacts.

AI Processor: On-device processing for real-time analysis for ADAS (Advanced Driver-Assistance Systems like collision warnings, lane departure) and DMS (Driver Monitoring Systems like drowsiness, distraction, phone use).

Audio:

Built-in microphone for audio recording. Speaker for in-cab audio alerts and two-way communication.

Power & Durability:

1. Power Supply: Designed to connect directly to vehicle power system (DC 9V-36V range).
2. Backup Battery: Internal or external battery to ensure recording finishes safely after power loss.
3. Operating Temperature: Built to withstand -20 degrees C to +70 degrees C.

Interfaces:

I/O ports (Digital Inputs/Outputs) for connecting external triggers (panic buttons) or controlling vehicle functions (remote immobilization relays). RS-232 connections for integrating additional sensors (fuel, temperature, etc.).

Warranty:

The product must have minimum one year warranty from the date of installation and commissioning. The bidder shall provide onsite warranty support.

2.3 Supply of

The bidder shall supply QR Code boards to be installed at each household under Dhenkanal Municipality for door-to-door collection monitoring and grievance reporting by public.

Specification	Requirement
Material	Sun board of minimum 3mm thickness
Size	6-inch width x 9-inch height (minimum)
Printing	UV printed, weather-resistant, fade-proof
QR Code	Unique QR code per household, linked to the DSMS software platform
Durability	Waterproof and UV-resistant for outdoor installation
Installation	With adhesive backing and/or screw holes for mounting
Quantity	As per actual household count of Dhenkanal Municipality (estimated: _____)

2.4 Command Centre Equipment

The bidder shall supply and install command centre monitoring equipment as follows:

Item	Specifications	Quantity
LED Android Smart TV	65 inch, 4K UHD, Android OS, WiFi & LAN connectivity, wall mount included	1
LED Android Smart TV	43 inch, 4K UHD, Android OS, WiFi & LAN connectivity, wall mount included	1
Wall Mount Bracket	Heavy duty wall mount for 65 inch and 43 inch TV	2

2.5 Delivery, Installation & Commissioning

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1. All hardware shall be delivered to the designated locations within Dhenkanal Municipality as directed by The Executive Officer, Dhenkanal Municipality.
2. The bidder shall be responsible for installation and commissioning of all GPS Tracking Devices on designated Tractors and GPS Dashcam devices on designated LCVs.
3. boards shall be delivered in bulk to the Municipality office. Distribution and installation support to be provided as directed.
4. Command Centre TV shall be installed and configured at the designated office location.
5. All installations shall be completed within 7 days from the date of delivery.
6. The bidder shall provide demonstration and basic operational training for all supplied hardware.
7. All hardware must be compatible and integrable with the DSMS software platform being developed under the separate software tender. The hardware bidder shall ensure full API-level compatibility and provide all necessary documentation, SDKs, and technical support required for integration with the software platform.

2.6 Warranty

All hardware items shall carry a minimum 1-year comprehensive onsite warranty from the date of installation and successful commissioning.

3. GENERAL TERMS AND CONDITIONS

The Executive Officer, Dhenkanal Municipality reserves the right not to accept bid(s) from agencies resorting to unethical practices or on whom investigation/enquiry proceedings have been initiated by Government investigating Agencies & Vigilance Cell.

The Executive Officer, Dhenkanal Municipality is not bound to accept any bid under this process or to assign any reason for non-acceptance. The Executive Officer, Dhenkanal Municipality reserves it's right to accept the bid in part or in full.

The Executive Officer, Dhenkanal Municipality reserves the right to summarily reject an offer, withdraw/cancel the bid document at any stage.

3.1 Termination of The Bid Process

The Executive Officer, Dhenkanal Municipality reserves the right to accept or reject any proposal, and to annul the bidding process at any time prior to award of contract, without liability to affected bidder(s).

3.2 Arbitration

In case of any dispute, The Executive Officer, Dhenkanal Municipality may appoint an arbitrator. The decision will be final and binding. Court jurisdiction will be in Odisha.

3.3 Indemnification

The selected agency shall keep The Executive Officer, Dhenkanal Municipality indemnified against all claims, damages, fines, penalties, and losses on account of non-compliance or violation.

3.4 Validity of Contract

The Contract shall be effective from the date of award till completion of supply, installation, and warranty period.

3.5 Payment Schedule

Payment shall be made against invoices duly certified by The Executive Officer, Dhenkanal Municipality as per the following schedule:

% of Contract Value	Milestone
60%	On delivery of all hardware items to site
30%	On successful installation, commissioning & testing
10%	After 30 days of satisfactory operation (retention)

3.6 Liquidated Damages

In case of delay in supply/installation beyond the stipulated timeline, liquidated damages at the rate of 0.5% of the contract value per week of delay shall be levied, subject to a maximum of 10% of the total contract value.

4. BIDDING PROCEDURE

4.1 Submission Procedure

Technical Bid: Bidders shall submit physically their bid in a sealed envelope. PART 1: EMD of Rs. 50,000/- and Paper cost of Rs. 5,000/- as Demand Drafts drawn in favour of The Executive Officer, Dhenkanal Municipality payable at Dhenkanal. Registered MSMEs with valid Udyam registration are exempted from EMD. PART 2: One copy of TECHNICAL BID with all technical and commercial details except prices.

Financial Bid: Bidder shall submit the Financial Bid at Office of The Executive Officer, Dhenkanal Municipality, Dhenkanal, PIN-759001.

4.2 Eligibility

Each Bidder shall submit only one (1) Bid. Any Bidder submitting more than one shall be disqualified.

5. EVALUATION OF BIDS

5.1 Pre-Qualification Criteria

#	PQ Criteria	Documentary Proof
1	Cover Letter	In the prescribed format (Annexure 1)
2	The bidder shall be a registered firm/company in the state of Odisha. Bidder having operated for a minimum of 2 years.	Certificate of Incorporation / Registration
3	The bidder should be an OEM / Authorized Dealer / Exclusive Channel Partner / Distributor of GPS tracking and dashcam devices, or a system integrator with prior GPS Tracking / Dashcam supply experience to Government bodies / ULB(s) in India.	OEM Certificate / Authorization Letter / Exclusive Channel Partner Agreement / relevant proof
4	Valid PAN Card	Copy of PAN Card
5	Valid GST Registration Number	GST Registration Certificate
6	EMD (Registered MSMEs with valid Udyam Registration are exempted)	Demand Draft as prescribed OR Udyam Registration Certificate for exemption
7	Paper Cost	Demand Draft as prescribed

Note: For the purpose of Pre-Qualification and Technical Evaluation, experience gained by the bidder as the Lead Technical Partner in a Joint Venture / Consortium shall be considered valid, provided the bidder submits a copy of the Joint Venture Agreement clearly establishing its role as Lead Technical Partner along with the relevant Work Orders / Experience Certificates.

5.2 Technical Bid Evaluation

S.N o.	Evaluation Criteria	Max Marks	Documentary Evidence
Domain Expertise & Experience		60	
1	Average annual turnover of more than Rs. 1 Crore for last 3 Financial Years	10	IT returns & audit balance sheet
2	Experience of supply / installation of GPS tracking devices / dashcam devices to Government bodies / ULB(s) either directly or through OEM / Channel Partner arrangement in last 3 years.	10	Work Orders / Supply Orders / Experience Certificates / Channel Partner Agreement with supply proof
3	OEM / Authorized Dealer / Exclusive Channel Partner certification for the proposed GPS tracking device and dashcam	10	OEM Authorization Certificate / Exclusive Channel Partner Agreement
4	Experience of supply of boards / signage to Government bodies / ULBs	10	Work Orders / Certificates
5	Experience in deploying GPS-based real-time monitoring systems for sanitation operations (e.g., GPS tracking of sanitation vehicles / workers, route monitoring, attendance tracking) in ULB(s)	20	Work Orders / Completion Certificates / Go-Live Certificates from ULBs
Technical Compliance & Presentation		40	
6	Technical compliance of proposed hardware with specifications in Section 2	15	Product datasheets, brochures, compliance matrix
7	Technical Presentation & Live Demo	25	Presentation + working sample demonstration
Total		100	

Only bidders scoring 70 marks and above in the technical evaluation shall be qualified for the financial evaluation.

5.3 Financial Bid Evaluation

The Bidder with lowest qualifying financial bid (L1) will be awarded 100% score (10 marks). Financial Scores for others: $F_n = (\text{Bid of L1} / \text{Bid of the Bidder}) \times 100\%$. Only fixed price bids will be considered. Bid price excludes taxes (mentioned separately). Conditional bids will be rejected.

5.4 Final Evaluation

Composite Bid Score: $B_n = 0.90 \times T_n + 0.10 \times F_n$. The Bidder with highest score will be selected. In case of tie, higher technical score prevails.


Executive Officer
Dhenkanal Municipality

ANNEXURE - 1: FORMAT FOR COVERING LETTER

(On the Letterhead of the Bidder)

To,

Date: _____

The Executive Officer, Dhenkanal Municipality

Dhenkanal, Pin-759001

Sub: Submission of bid for "Supply, Installation & Commissioning of Hardware for Digital Sanitation Monitoring System in respect of Dhenkanal Municipality"

Ref: Tender No. _____ & dt. _____

Sir,

With due respect we are submitting our bid as given below.

We have read and understood the Tender Document in respect of the captioned assignment provided by The Executive Officer, Dhenkanal Municipality.

We hereby agree and undertake that our Bid is unconditional in all respects.

This Bid is valid till _____ (At least 4 Months from the Due Date).

Please find enclosed herewith the EMD of Rs. 50,000/- and Paper Cost of Rs. 5,000/- as Demand Drafts drawn in favor of The Executive Officer, Dhenkanal Municipality payable at Dhenkanal. (Note: Registered MSMEs with valid Udyam Registration are exempted from EMD. Please enclose copy of Udyam Registration Certificate in lieu of EMD.)

That as on the date of submission, there is no blacklisting order that bars us from working with any Government Agency/Department.

Yours faithfully,

Name & Signature of the bidder

ANNEXURE - 2: LIST OF SIMILAR HARDWARE SUPPLY WORK EXECUTED

Sr.	Name of Client	Location	Description of Supply	Duration / Order Value

Notes: Each listed work shall be supported with copy of work order/supply order/completion certificate.

ANNEXURE - 3: FORMAT FOR FINANCIAL PROPOSAL (HARDWARE)

(On the letter head of the bidder)

To,

Date: _____

The Executive Officer, Dhenkanal Municipality, Dhenkanal, Pin-759001

Sub: Submission of financial bid for "Supply, Installation & Commissioning of Hardware for Sanitation Monitoring System in respect of Dhenkanal Municipality"

Sl.	Description	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
1	SIM / Data Plan for GPS Tracking Devices (per device per annum)	39 Nos.		
2	SIM / Data Plan for Dashcam Devices (per device per annum)	39 Nos.		
3	LED Android Smart TV 65 inch (4K UHD, with wall mount)	2 No.		
4	LED Android Smart TV 43 inch (4K UHD, with wall mount)	2 No.		
5	HDMI & Connectivity cables set	2 Set		
6	Installation & Commissioning charges (all items)	Lump Sum		
7	Transportation & Delivery charges	Lump Sum		
8	Development & Integration Cost	Lump Sum		
9	API and dashboard supply/ integration	As Per Features Required		
	GRAND TOTAL (Exclusive of taxes)			

*The amount quoted is exclusive of all applicable taxes (GST etc.), which shall be mentioned separately.

*All items must carry minimum 1-year comprehensive onsite warranty.

Total Amount in Words: _____

Yours faithfully,

Name & Signature of the bidder

Designation:

Complete address:

Name of the Firm/Agency:

Phone no. _____ Mobile _____ E-Mail ID _____