

**TELANGANA MINERAL DEVELOPMENT
CORPORATION LIMITED**

(ATelangana State Government Undertaking)

**Empanelment Notification for AIS140-Compliant Vehicle
Tracking Device (VLT) for Mining and Sand Transport
Vehicles**

Date: 30.10.2024

Empanelment Schedule

Sr. No.	Particulars	Details
1	Name of Department	Telangana Mineral Development Corporation (TGMDC)
2	Empanelment Notification Number	TGMDC/IT/2024/78
3	Empanelment Fee	Non-refundable Application Fee: INR 30,000, with an additional INR 15,000 fee for each extra VLT model through demand draft in favour of TGMDC Payable at Telangana
4	Name of Empanelment	Empanelment Notification for AIS140-Compliant Vehicle Tracking Device (VLT) for Mining and Sand Transport Vehicles
5	Date of Notification	30-10-2024
6	Last date & Time for submission of Application	12-11-2024 upto 5PM
7	Address for Communication	#6-2-915, HMWSSB Premises, Rear block,3rd Floor, Khairatabad, Hyderabad, Telangana, Pincode: 500004.

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The Service Provider shall bear all its cost associated with or relating to preparation and submission of its Proposal including but not limited to preparation, copying, postage, delivery, fees, expenses associated with any demonstrations or presentations which may be required by the TGMDC Ltd, formation of consortium or any other costs incurred in connection with or relating to its Proposal. All such costs and expenses will remain with the Service Provider and the TGMDC Ltd shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by any Service Provider in preparation or submission of the Proposal, regardless of the conduct or outcome of the Selection Process.

1. Introduction

- **TGMDC:** Telangana Mineral Development Corporation Ltd. (TGMDC) was incorporated on 8th October, 2014 and registered under the Companies Act 2013 with an authorized capital of Rs.50 lakhs with full participation by Government of Telangana. The objectives of the TGMDC are:
 - Development of Mineral Resources including Exploration, Exploitation, and Beneficiation.
 - Development of Mineral Industries with Private Participation.
 - Identification of Best Technology and Investment for Development of Mineral Resources.
 - **Purpose:** This document specifies requirements and procedures for empanelling AIS140-compliant VLT device manufacturers for TGMDC, aimed at enhancing vehicle tracking, regulatory compliance, and safety for mining and sand-transport vehicles in Telangana.
 - **Scope:** Empanelment of certified and experienced VLT device manufacturers with a proven record of AIS140-compliant devices, including requirements for installation, service support, and backend integration with TGMDC.
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2. Background

- **Project Background:** In line with the Ministry of Road Transport & Highways (MoRTH) notification on AIS140 standards, TGMDC seeks to establish a tracking system to monitor mining and sand-carrying vehicles. This initiative aligns with the 2016 amendments to the Central Motor Vehicle Rules, mandating VLT devices and emergency buttons on specific vehicle categories.
- **Regulatory Compliance:** All empanelled manufacturers must comply with MoRTH guidelines, the AIS140 standard, and TGMDC's specifications for VLT devices and backend integration.

3. Eligibility Criteria for Manufacturers

- **Certification Requirements**

- Valid Type Approval Certificate (TAC) and Conformity of Production (COP) certificate as per AIS140 standards from an authorized agency (e.g., ARAI, ICAT).
 - ISO 9001 or equivalent quality certification to ensure product and process quality.
 - **Experience Requirements**
 - Minimum 3 years of Conformity of Production in manufacturing and installing AIS140-certified VLT devices.
 - Experience of Minimum 10,000 AIS140-certified devices installed in India as per VAHAN Data.
 - **Service Center Requirements**
 - Service centers in each revenue division in Telangana before completion of empanelment.
 - Each centre should be equipped with skilled technicians and diagnostic tools for repair, troubleshooting, and maintenance. one computer + one printer + computer operator.
 - **Financial Requirements**
 - Submission of audited financial statements for the past 3 years.
 - Proof of financial stability and capability for long-term operations, maintenance, and customer support.
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4. Technical Specifications of VLT Devices

- **Core Functionalities**
 - Real-time GPS tracking with data updates per AIS140 standards.
 - Tamper detection, over-speed alerts, and geo-fencing.
 - Internal storage for 90 days of tracking data for offline retrieval if network connectivity is lost.
- **Power and Backup Requirements**
 - Primary power through the vehicle's battery, with internal backup battery in case of disconnection.
 - Alert notifications for power tampering, including vehicle battery disconnection.
- **Data and Network Security**
 - Data transmission strictly through Indian IP addresses; no communication with foreign servers is allowed.
 - All data must be encrypted and transmitted over secure channels to meet privacy and security standards.
- **Backend Integration & Demonstration**
 - Compatibility with TGMDC's backend systems for real-time data access, health checks, and alert management.
 - Over-the-air (OTA) firmware updates to ensure devices stay current with AIS140 and TGMDC-specific requirements.

5. Service and Maintenance Requirements

- **Regional Service Centers**

- Service centers must be operational in each of the following Erstwhile Districts:
 - Hyderabad
 - Rangareddy
 - Mahbubnagar
 - Medak
 - Nalgonda
 - Nizamabad
 - Adilabad
 - Karimnagar
 - Khammam
 - Warangal
- Each centre must:
 - Be staffed with trained technicians familiar with VLT device installation, maintenance, and repair.
 - Provide support for device testing, troubleshooting, and software updates.
 - Have a maximum complaint response time of 24 hours.
- **Customer Support and Complaint Management**
 - A 24/7 call center for customer complaints and technical issues, with a toll-free number and dedicated customer service portal.
 - Online and offline channels for complaint registration, with a complaint resolution time not exceeding 72 hours.
- **Warranty and After-Sales Service**
 - Minimum two-year warranty covering device installation, malfunction, and firmware updates.
 - Availability of Annual Maintenance Contracts (AMCs) post-warranty for at least three years, ensuring a 95% device uptime for continuous monitoring.

6. Application and Documentation Requirements

- **Application Submission**
 - All documents must be submitted in both hard copy to TGMDC's headquarters and electronically via the specified online portal.
 - Non-refundable Application Fee: INR 30,000, with an additional INR 15,000 fee for each extra VLT model through RTGS/NEFT IDBI-Basheer Bagh A/c No.0002102000063993.IFSC-IBKL0000002.
- **Required Documents**
 - Valid TAC and COP certificates, quality certifications, and a performance bank guarantee (BG).
 - Financial stability proofs such as audited financial statements for the last three years.
 - Self-declaration of the applicant not being blacklisted by any government or PSU.
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- **Performance Bank Guarantee (PBG)**
 - A PBG of INR 5 Lakhs.

- Guarantees should be valid for the entire empanelment period and extended as required by TGMDC.
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7. Evaluation and Empanelment Process

- **Compliance and Technical Evaluation**
 - Applications will be assessed based on the validity of AIS140 certifications, past deployment track records, and service center readiness.
 - 10,000 devices installed and updated in VAHAN
 - Manufacturer financial stability and the capability to deliver at scale will also be evaluated.
- **Device Testing and Validation**
 - VLT devices must pass tests for accuracy, reliability, and OTA firmware updates.
 - TGMDC reserves the right to conduct random inspections and monitor devices for compliance with AIS140 and project-specific requirements.

8. Device Compliance and Operational Requirements

- **Device Data Logging and Transmission Protocol**
 - Devices must log real-time vehicle data and support alert and health packets as per AIS140.
 - Data should be stored for at least 90 days on the backend for audit and compliance checks.
 - **Backend System Integration**
 - Manufacturers are required to integrate with TGMDC's backend to enable real-time monitoring and system health checks.
 - All VLT devices must support secure OTA updates as per AIS140 and TGMDC's custom protocols.
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9. Standard Operating Procedures (SOP) for Manufacturers

- **Data Protocol and Packet Requirements**
 - **Packet Types:** Normal, Health, and Alert packets must follow AIS140 protocol requirements.
 - **Commands:** Device configuration commands for server-side control should comply with AIS140 standards, allowing for OTA management, alert settings, and diagnostic checks.
- **Operational Responsibilities**

- Manufacturers should ensure uninterrupted data transmission and maintain a device uptime of 95%.
 - Regular device health checks and prompt resolution of alerts or malfunctions are required.
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10. Compliance Monitoring and Penalties

- **Non-Compliance Penalties**

- TGMDC reserves the right to penalize manufacturers for:
 - Failing to maintain service response times.
 - Violations of security or AIS140 compliance.
 - Failing to meet uptime or after-sales service standards.

- **Forfeiture of Performance Guarantee**

- The PBG may be forfeited, fully or partially, in cases where the manufacturer violates conditions of the empanelment or fails to maintain service standards.

- **Blacklisting and Termination**

- Manufacturers who persistently fail to meet compliance requirements may be removed from empanelment and blacklisted for future TGMDC projects.

11. Additional Conditions for Service Centers

- **Establishment and Compliance**

- Manufacturers must establish and register service centers with TGMDC. Each center must be operational with full staff and equipment as per the required timelines.
- Service centers must maintain a complaint resolution registry to document and track issues for compliance review.

- **Service Level Agreements (SLAs)**

- The VLT devices must be free from defects for a minimum of two years, with manufacturers responsible for all repairs or replacements under warranty.
- Resolution times for complaints should not exceed the SLAs, with monthly reports submitted to TGMDC.

12. Address for Communication

The Vice Chairman & Managing Director,

Telangana State Mineral Development Corporation Ltd (TGMDCL)

6-2-915, HMWSSB Premises, Rear Block 3rd Floor,

Khairatabad, Hyderabad - 500 004,

Ph: 040-23323150,

Fax: 040-23373155

e-mail: tgmdcltd@gmail.com

Encl: Annexures for submission of proposals

Note : All the Documents should submit in Sealed cover in Favor of above mentioned address physically.