



अण्डमान तथा निकोबार प्रशासन

ANDAMAN & NICOBAR ADMINISTRATION परिवहन निदेशालय

DIRECTORATE OF TRANSPORT

No.MT/2-57/IT/GPS/2019/ 722 \

Port Blair, dated the 5 August, 2019

ADVERTISEMENT

This is to inform all concerned that fitment of GPS based Vehicle Tracking System and Panic Button in all the Commercial Vehicles (except two wheelers and three wheelers) made mandatory by the Ministry of Road Transport & Highways. This Department invites application from interested manufacturers or their dealers for empanelment for the fitment of Vehicle Location Tracking & Monitoring System with panic button in accordance with AIS-140 standard for all Public Transport Vehicles Registered in the UT of Andaman & Nicobar Islands. Further details can be downloaded from the official website https://eproc.andaman.gov.in of A & N Administration and Department website https://transport.and.nic.in.

Nodal Officer(IT)

नोइल अधिकारी (सू.प्रौ)

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ANDAMAN & NICOBAR ADMINISTRATION परिवहन निदेशालय

DIRECTORATE OF TRANSPORT

No.MT/2-57/IT/GPS/2019/ 7221

Port Blair, dated the August, 2019

विज्ञप्ति

सभी संबाधिंतों को सूचित किया जाता है की सभी सार्वजनिक सेवायानों (द्पहियां एवं तिपहिंयां वाहनों को छोड़कर) पर व्हीकल लोकेशन ट्रैकिंग डिवाइस एवं पैनिक बटन (ए.आई.एस-140 मानक के अन्रूप) लगाने की अनिवार्यता है | वाहनों पर इस डिवाइस को लगाने के लिए इच्छ्क आपूर्तिकर्तावों / डीलर्स द्वारा परिवहन निदेशालय से अनुमति प्राप्त करने के लिए आवेदन पत्र प्रारूप एवं शर्ती विभागीय वैबसाइट eproc.andaman.gov.in विवरण का विस्तृत transport.and.nic.in से डौन्लोड कर आवेदन किया जा सकता है |

नोइल अधिकारी

Dte. of Transport A & N Islands

Empanelment of Vehicle Location Tracking (VLT) Devices (AIS-140 Compliant) Manufacturers for specified public service vehicles

in

Andaman & Nicobar Islands

No. MT/2-57/IT/GPS/2019/ 722/ dated 05/08/2019

By

Directorate of Transport,
Andaman & Nicobar Administration,
Port Blair-744101
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Document Control

Document Title: Vehicle Location Tracking & Monitoring System A&N Islands

Document No.: MT/2-57/IT/GPS/2019

Name of Organization: Directorate of Transport, A & N Administration

Abstract: This document provides the detailed procedure for empanelment VLT units for the implementation of AIS-140 standard based Vehicle Location Tracking and Monitoring System for all Public Transport Vehicles registered in the UT of Andaman & Nicobar Islands. For this AIS-140 certified VLTs manufacturers will be listed based on the selection procedures specified in this document.

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Abbreviations/Acronyms:

ARAI	Automotive Research Association of India	
NIC	National Informatics Centre	
GSM	Global System for Mobile Communication	
ISO	International Organization for Standardisation	
RTO	Regional Transport Office	
SIM	Subscriber Identity Module	
TDANI	Transport Department Andaman & Nicobar Islands	
VLT	Vehicle Location Tracking Unit	
GNSS	Global Navigation Satellite System	
MORTH	Ministry of Road Transport and Highways	
AIS	Automotive Industry Standard	
eSIM	Embedded SIM	
RFC	Retro fitment Centre	
TAC	Type Approval Certificate	
COP	Conformity of Production	

Glossary of Terms

The definitions of various terms that have been used in this document are as follows.

"Manufacturer" means a registered firm manufacturing AIS-140 certified Vehicle Location Tracking units in India.

RFC/Franchisee" means a firm registered in Andaman & Nicobar Islands who is authorized to sale, install, support and service AIS-140 certified Vehicle Location Tracking Unit of empanelled Manufacturer.

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1. Background

Andaman & Nicobar UT has a good network of roads. Nearly 1.42 lakhs of vehicles are currently registered under different categories in this state.

The Transport Department, A&N Administration under the provisions of Section-213 of Motor Vehicle Act, 1988 is established for enforcement of the provisions of Motor Vehicle Act, 1988 and Rules made there under. In order to implement the Notification issued by Ministry of Road Transport and Highways vide Notification No. G.S.R. 1095(E) dated 28.11.2016 with insertion of Rule 125H by way of amendment in the Central Motor Vehicle Rules, 1989, the TDANI invites expression of interest from the Manufacturers of VLT devices with Emergency Panic Button conforming to AIS-140 for empanelment for exclusive supply, installation and maintenance of VLT devices in the UT of A & N Islands. Enforcement of public road transport rules and its effective monitoring for the large number of vehicles is definitely a challenge. Vehicle Location Tracking & Monitoring System is a technology used by many countries, companies and individuals to track vehicles using Global Navigation Satellite System (GNSS). Apart from enforcement of public road transport rules, the system can also give other valuable services to TDANI and the general public. TDANI has taken steps to track and monitor all public transport vehicles registered in Andaman & Nicobar Islands as per the Rule 125H of Central Motor Vehicle Rules 1989.

For tracking, a Vehicle Location Tracking unit has to be installed in these vehicles. MORTH has released a common standard for tracking devices under AIS-140 standard. TDANI has decided to follow MORTH's AIS-140 standard to send data from the VLT units to the State server. For this TDANI has decided to empanel manufacturers who can meet the specifications of AIS-140 standard and the specific requirements of the State. The Manufacturers are to be selected through an empanelment process, as defined in this document and TDANI will approve the selected Manufacturers to sell/install/support and service their devices in A & N Islands.

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About TDANI

The Transport Department functions under the provisions of Section 213 of the Motor Vehicles Act, 1988. The Department is administered by the Director (Transport) who is the Head of the Department under the control of Commissioner/Secretary (Transport).

The Department has four functional levels

- (I) Head of Department under Secretary (Transport)
- (II) Registering & Licensing Authority under the Director of Transport
- (II) One RTO Office under Director of Transport
- (III) 15 Sub Offices under Regional Transport Officers. In addition.

These vehicles which are required to be fitted with VLT devices along with Panic button in the commercial (Transport) vehicles are categorized into:

- · Stage Carriages Buses
- Educational Institution Buses (EIB)
- · LMVs having Contract Carriage
- Goods Carriage
- Contract Carriage buses

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1. About "AIS-140 standard based Vehicle Tracking & Monitoring System"

A & N Islands Transport Department envisages to track the public service vehicles in A & N Islands. The objective of the project is to introduce a tracking system for continuous monitoring of public transport vehicles specified in the rule for better road safety and better support for enforcement services.

Components of AIS-140 based Tracking System

The tracking system is a combination of hardware, software and communication technologies. The major components of tracking system are

- 1. Vehicle Location Tracking Unit(VLT): VLT is a hardware unit equipped with GNSS logger, a GPRS/3G/4G based communication system, power supply and back up mechanism. The entire system is packed into a rigid enclosure with proper indications and power input.
- 2. **Vehicle Location Tracking Software:** A software system receives the data from VLT, passes it and logs it. This data is further processed for generating automated alerts and messages. The software resides in server(s).
- 3. **Communication facility:** VLT sends the geo-location information to the server in a predefined interval. The most common communication method is using GPRS/3G/4G, made possible through the existing mobile networks using eSIM.
- 4. **Monitoring System**: A map system is integrated to the software for real time plotting of the vehicles on a map. Monitoring centres can view this map displayed on a web browser.

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2. Empanelment of VLTs

TDANI intends to empanel manufacturers of Vehicle Location Tracking units (VLTs), which can be used in the public service vehicles, for enabling tracking and monitoring of the vehicles. The objective of VLT empanelment is to standardized the VLT data protocol and data format specification to meet the state specific requirements and to support the customers to avail good quality VLT devices and after sales services. Accordingly, the prequalification requirements for the manufacturer and the specifications for vehicle Location tracking unit firmware details are listed in this document. Empanelment is for the devices, and as such, multiple devices from the same manufacturer will require separate applications for empanelment. The TDANI will publish the list of empanelled VLT models and the vehicle owners will be advised to procure only the empanelled VLT models.

- 1. The VLT device manufacturers shall possess a valid Type Approval Certificate (TAC) and Conformity of Production (COP) from any of the agencies as referred in rule 126 of the Central Motor Vehicles Rules, 1989.
- 2. The Manufacturers can apply their VLT models for empanelment based on the criteria specified in this document.
- 3. If manufacturer wants more than one VLT model to be empanelled, separate application is to be submitted for each VLT model.
- 4. The evaluation of application for empanelment would be carried out based on the pre qualification criteria and technical specification.
- 5. Only empanelled VLT models are to be used by public service vehicles in A & N Islands.
- 6. VLT manufacturers cannot sell their models for the public service vehicles in A & N Islands once their authorisation/ certification issued by the testing agency is suspended, cancelled or not renewed for any reason.
- 7. Manufacturers must give an undertaking to TDANI that in case their authorisation/ certification is suspended, cancelled or withdrawn for any reason, they will continue to support the devices already sold for the public service vehicles.

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- 8. Manufacturers must have a Call-centre or similar arrangements in Port Blair to address the queries and any other issues from the end users.
- 9. Manufacturers must setup a registered RFC or franchisee who is authorized to sell, install, support and service the VLTs at Port Blair, A & N Islands, within 30-days from the date of empanelment and to communicate the same to TDANI before commencement of fitment. The Manufacturer/RFC/Franchisee must organize VLT fitment camp at regular interval in atleast eight Tehsil out of nine Tehsil lying in remote areas viz Ferrargunj, Rangat, Mayabunder, Diglipur, Little Andaman, Car Nicobar, Nancowry, Campbell Bay including Swaraj Dweep and Shaheed Dweep. Hence the manufactures must submit a declaration for the same along with the application form.

The manufacturer RFC/ franchisee should facilitate eSIM in VLTs along with a subscription of two years for new vehicles and one year for old vehicles from service providers on behalf of the Vehicle Owners And must take necessary steps to ensure the continuity of the service once the eSIM validity period is expired.

RFC/franchisee of corresponding manufacturers should have sufficient infrastructure like computer, internet service, official phone number, technicians etc. to provide assistance to end users.

TDANI can terminate the approval of the registered RFC/ franchisee at any time if it is found violating any of the provisions of the CMVR-1989, AIS-140, any other direction issued by the TDANI or any other applicable law.

- 9. TDANI reserves the right to change the terms and conditions governing the certification and approval at any point of time.
- 10. Unless the Certification of any VLT model is cancelled by TDANI, the certification of VLT model shall remain valid as long as such model continues to comply with the terms and conditions in AIS-140 standard or for 3 years whichever is less. Before the expiry period manufacturers have to renew the certification in accordance with TDANI regulations.

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- 11. TDANI reserves the right to modify the VLT firmware specification or add additional features to existing specification. The release of the VLT specifications will be in a version controlled fashion.
- 12. Every VLT models and service of manufacturers selected through empanelment process will be reviewed every 3 months and subsequent actions will be taken against those who violate any of the regulations listed out in this document.
- 13. TDANI may initiate the empanelment process, as and when required.

Interested Manufacturers for the respective VLT models which comply with the TDANI requirements may download the registration document from the website and submit the same duly filled in and supplemented with all relevant documents to TDANI for further processing.

3. Scope of the project

A & N Islands Transport Department is planning to track all public service vehicles operating in A & N Islands in phased manner. These vehicles should be tagged with VLT devices.

VLT Manufacturers/ registered RFC will be given controlled access to the Vahan Portal/TDANI application for tagging (connecting) and feeding the details of the VLTs to the application. Manufacturers should train the registered agencies/ franchisees for installing the VLT devices in vehicles and support the customers whenever required. Manufacturer shall provide warranty (at least for one year) and AMC (for 05(five) years) for their products. Manufacturers/ the registered RFC/franchisees have to supply and support certified VLT models across the State. Any complaint registered through the TDANI application should be serviced within 48 hours of complaint raised by the customer. For redressal of complaints a suitable mechanism shall be developed and monthly reporting to TDANI shall be ensured.

The list of Regional Transport office is:-

Sl. No.	Locations (RTO Office)	
1	AN-01 Port Blair	

The list of Sub offices are:-

Sl. No.	Locations (Sub Office)
1.	Ferrargunj
2.	Baratang

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3.	Kadamtala
4.	Rangat
5.	Mayabunder
6.	Diglipur
7.	Swaraj Dweep
8.	Shaheed Dweep
9.	Little Andaman
10.	Car Nicobar
11.	Nancowry
12.	Katchal
13.	Teressa
14.	Champion
15.	Campbell Bay

4. Pre-Qualification Criteria for VLT Manufacturer

Manufacturers have to meet the following pre-qualification criteria for empanelment.

Pre-Qualification Criteria

S. No.	Criteria	Required Documents	
1	The Manufacturer should be a registered company in India under the Companies Act, 1956.	Certification of incorporation	
2	The Manufacturer should not be blacklisted by any Central/ State agencies in India.	Self declaration by the manufacturer Signed by the authorized signatory	
3	Only OEMs will be allowed to participate in empanelment.	Copy of relevant Certificate	
4	The VLT model which Manufacturer intends to submit for empanelment must have a TAC/COT according to AIS-140 standard.	Copy of relevant Certificate(s)	
5	The Manufacturer shall arrange an authorised RFC / authorized agents in Port Blair.	Self declaration by the manufacturer Signed by the authorized signatory	
6	The Manufacturer / Authroized RFC / Agents shall agree to open an office in A & N Islands UT within one month, once the manufacturer is empanelled.	Self declaration by the manufacturer Signed by the authorized signatory	

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The Manufacturer must submit all the certified and authenticated documentary proof for meeting the pre-qualification criteria. Such documents may include AIS-140 certification for submitted model, company registration certificates and other credentials.

5. Technical Specification

Once the Applicant fulfilled the Pre-qualification criteria, they have to submit their proposed AIS-140 certified VLT models for the following tests:-

- Communication Protocol as Per AIS140 standards in line with Ministry of Road Transport & Highways (MoRTH) directives and notifications.
- Demonstration of test server configuration in the submitted VLT device
- Fitment of the VLT device with Panic Button System, in a test passenger vehicle
- Demonstration of Alert Messages as per AIS-140, when the Panic button is pressed
- The primary source of power for the device should be from vehicle's battery. When the device is disconnected from vehicle battery it should start operating on internal battery.
- · Alert on tampering and vehicle battery removal.
- Device should meet all the features prescribed as per AIS-140
- The panic buttons should be fitted in location easily accessible to the person(driver/passenger) intended to use it. In public transport vehicles like buses the emergency buttons should preferably be fitted on the vertical pillar above the window rail below the luggage rack.
 Refer Annexure D.

6. Submission of Application for Empanelment

The Manufacturer can apply for empanelment of one or more models of VLT devices.

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General Conditions

Manufacturers are advised to study the document carefully. Submission of application will be deemed to have been done after careful study of all instructions, eligibility norms, terms and requirement specifications in this document with full understanding of its implications. Applications not complying with all the given clauses in the document are liable to be rejected. Failure to furnish all information specified in this document or submission of application not substantially responsive to the document in all respects will be liable for rejection.

RFP for empanelment will be hosted in TDANI official procurement website (www.eproc.andaman.gov.in) and can be downloaded and used for submission of application forms. The details are also uploaded in the Departmental website transport.and.nic.in.

- Un-signed and un-sealed application shall not be accepted.
- All pages of the application and documents being submitted must be signed and sequentially numbered by the Manufacturer.
- Ambiguous applications will be out-rightly rejected.
- Applications not submitted as per the format will be rejected straight away.
- No deviations from the specifications will be accepted.
- The Manufacturers will bear all costs associated with the preparation and submission of their applications. TDANI will, in no case, be responsible or liable for those costs, regardless of the outcome of the empanelment process.

TDANI may, at its own discretion, can cancel the empanelment or any clause of this document.

Terms and Conditions Governing Registration

1. Commercial arrangement of VLTs between Manufacturers and registered RFC/ Franchisees and Vehicle Owners - Any commercial or other arrangements/ agreements between the Manufacturer/ registered RFC/ franchisee and the vehicle owners (customers) shall be as mutually agreed between them. The price of the certified VLT device and all other terms and conditions including those related to warranty, AMC, nature of service etc

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- shall be as mutually agreed by and between the Manufacturer/ registered RFC/ franchisee and the vehicle owners. TDANI shall have no role, responsibility and liability in relation to the same.
- 2. Response Time If any complaint is raised against the installed VLT device, then the concerned manufacturer/registered RFC/ franchisee should resolve the complaint within 48 hrs of reporting the complaint. If more time is required, then a standby VLT should be installed temporarily and replaced once the original VLTs issue gets solved. The complaint and clarifications should be logged into the TDANI application.
- 3. Monitoring and Audit Once the manufacturer/ registered RFC/ franchisee is authorised/ approved, TDANI shall have the right to monitor/audit the certified VLT devices installed in the Vehicles and the service and support provided with a view to ascertain their continued compliance with the terms and conditions governing the registration.
- 4. Cancellation of Registration If any fault is found or any complaint received from end user customers, then TDANI shall take actions against the manufacturer/ registered RFC/ franchisee and have the right to suspend or cancel the registration/empanelment issued to that particular VLT model.
- 5. Liability Manufacturer/ registered RFC/ franchisee shall be liable and responsible for performance of the VLT devices supplied to the Vehicle owners.
- 6. Jurisdiction Any issues related to registration of VLT or licensing of agencies are governed by the laws established in India and competent to deal with disputes, if any, arising out, the court in Port Blair alone have jurisdiction to lay any matter relating to this empanelment..
- 7. Dispute In case of any dispute related to technical (operational testing), the decision of TDANI shall be final and binding.
- 8. Use of Trademark/ Logo of TDANI Manufacturer shall not use the TDANI logo or any other trademark, symbol, or icon on or in connection with the registered GPS Devices or any of the manufacturers VLT devices including those on its packaging, manuals, promotional and/or advertising materials, or for any other purpose without an express written permission from TDANI

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Submission of Application

- A) A Manufacturer can apply for empanelment of one or more models of VLT devices. Separate application is to be submitted for each model.
- B) The Manufacturer is required to submit statement of compliance of the devices with the specifications as set out in this document.
- C) The Manufacturer is required to submit their application in the prescribed format in this document. The Manufacturer is also required to submit one VLT device proposed for empanelment and all other necessary documentation needed for interfacing and testing. The devices will be retained by TDANI and will not be returned to manufacturer irrespective of the empanelment outcome.
 - D) All communications and proceedings shall be in writing, in Hindi or English language only.

Details of Document to be submitted

The Manufacturers are required to submit the following documents.

- A) Table of contents listing documents and other details submitted.
- B) VLT Registration Form as per Annexure-A.
- C) Compliance Report in terms with Specifications for VLT devices as per Annexure B.
- D) List of documents as per Annexure C.

The documents along with registration form need to be submitted in a sealed envelope clearly bearing the following:

"Application for VLT Empanelment", Transport Department - A & N Islands.

Name and address of Vendor with contact number.

The application should reach TDANI at the following address as per the timelines specified for submission in this document:-

Registering & Licensing Authority
Directorate of Transport,
A & N Administration,
Mohanpura, Port Blair-744101, A & N Islands,
E-mail ID - dirtpt.and@nic.in

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Evaluation of Applications

- a) The application found complete in all respect shall be considered for testing of VLT devices for compliance with specifications.
- b) TDANI reserves the right to verify all statements, information and documents submitted by the Applicant. Applicant may be asked to submit additional documents for clarification, if required.
- c) If any information or document provided by the manufacturer is found to be false or misleading during the evaluation process, such application would be liable for rejection and if the VLT device has been empanelled, its empanelment would be liable to be cancelled. Further, the Manufacturer may be considered for blacklisting.
- d) Decision of TDANI regarding empanelment/ rejection of the VLT devices under this process will be final and no correspondence in this regard will be entertained by TDANI.
- e) For empanelment of devices, TDANI will follow pre-qualification criteria and the technical evaluations. Final selection will be based on technical evaluation.
- f) Selected VLT models will be published on eproc.andaman.gov.in and TDANI website transport.and.nic.in.
- g) TDANI may conduct site inspection and validate the facilities of registered agencies/ franchisees identified by manufacturers as RFC for distributing and fitting the VLT devices to customers.
- h) In case TDANI delist any agency/ franchisee due to any dissatisfaction or any agency/ franchisee withdrawal, then the corresponding manufacturer shall arrange alternate RFC/franchisee in the same region.

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Annexure - A.

Application Form for VLT Empanelment Format for VLT Application Form (on the official letter head of manufacturer)

Date:

To

The Director of Transport,
A & N Administration,
Mohanpura, Port Blair.
A & N Islands- 744101.
E-mail ID - dirtpt.and@nic.in

Sub: Registration of VLT device for the Public Vehicles in A & N Islands Sir,

We have fully understood the requirements of the process "Empanelment of Vehicle Location Tracking Unit (VLT) for Public Vehicles in A & N Islands" and are submitting our registration application for the following VLT device(S) being manufactured by us together with the required details, other information as per the registration process and the compliance report for VLT specification and protocols.

VLT device model number(s) to be registered	
Manufactured by and Date	
Manufacturer at (address of VLT production centre)	
Contact Person details (If different from undersigned)	

In relation to our application, TDANI may also note the following:

- 1.Our application is unconditional and all information provided in the application is true and correct.
- 2. We hereby declare that the VLT device(s) being submitted for registration complies with the specifications as set out in the registration process document and we shall make available any additional information as TDANI may find necessary as required for clarification.

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- 3.We acknowledge the right of TDANI to reject our application without assigning any reason and accept the right of TDANI to cancel the registration process at any time without incurring any liability to the registered Manufacturers.
- 4.We confirm that we are not blacklisted by any state government or central government / department/ agency in India from participating in bids for last three financial years.
- 5. We agree to keep the quality of the registered VLT models and support the customers whenever required.
- 6.We confirm that we will train all the RFCs/ franchisees to distribute the certified VLT models of our products.

Sincerely,

(Signature, name and designation of the authorised signatory) (contact no. including, phone no., fax, email and contact address)

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Operational Evaluation

Compliance against the operational specifications below needs to be submitted by the Applicant. The same shall be subjected to demonstration by the Applicant and/or testing by TDANI for validation, as mentioned below:-

SNo.	Specification	Validation Process	Confirma tion (Yes/No)
1.	Communication Protocol as Per AIS140 standards in line with Ministry of Road Transport & Highways (MoRTH) directives and notifications.	Device functionalities to be demonstrated by the Applicant at the time of Submission	
2.	Demonstration of test server configuration in the submitted VLT device	Acknowledgement of test command given to device and display of Tracking message at Test server	
3.	Fitment of the VLT device with Panic Button System, in a test passenger vehicle	Demonstration and connection, in the test vehicle	
4.	Demonstration of Alert Messages as per AIS-140, when the Panic button is pressed	Demonstration of the alert message at back end test server and emergency response server (2 messages at two different servers)	
5.	The primary source of power for the device should be from vehicle's battery. When the device is disconnected from vehicle battery it should start operating on internal battery.	A demonstration by Applicant together with supporting document as under: AIS-140 Certification.	
6.	Alert on tampering and vehicle battery removal.	A demonstration by Applicant together with supporting document as under: AIS-140 Certification.	
7.	Device should meet all the features prescribed as per AIS- 140	A demonstration by Applicant	

Legend:

Yes: Feature is available in the Vehicle Location Tracking Device model submitted.

No: Feature is not available in the Vehicle Location Tracking Device model submitted.

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List of Documents for Submission

1. Details of the Manufacturer

- a) Name of the Company
- b) Place of Incorporation
- c) Date of Incorporation
- d) Address of Head Office/ branch offices, if any
- e) Details of VLT devices manufacturing facilities (also mention whether owned or contracted its capacity, third party etc)
- f) Certificates of agencies, manufacturing facility (like ISO, CE etc)
- g) Brief description of the Company including details of its main lines of business.
- h) Details of production facilities (area, machinery, manpower, production capacity).
- i) Website details / URL
- j) Particulars of the authorised signatory of the Company including name designation, address, phone no, mobile no, fax and e-mail

2. Documents in support of compliance of the Manufacturer with regard to criteria mentioned in this document.

- a) Certificate of Incorporation issued by the competent authority with copy of registration documents.
- b) Statement of Compliance reports.
- e) One sample VLT device with related documents (with device brochures; Do's and Don'ts; user manuals; device protocol(s)/API documents explaining all the messages, fields and their values; other certifications for VLT devices standard's compliance and eSIMs and their details).

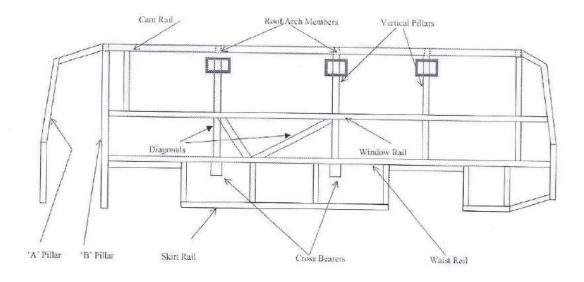
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Annexure - D.

Fitment Location



Nodal Officer(IT)

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