

Mines & Geology Department

General Information

Department of Mines & Geology has decided to introduce Vehicle Tracking Devices Based vehicle tracking system for mineral transporting vehicles operating in the State of Bihar. As a part of this, installation of VTD in vehicles registered with Department for transportation of minerals in the state has been made mandatory. The fitment of VTD on mineral transporting vehicles shall enable on-line, real-time monitoring of their movement and effective enforcement through a web-based Vehicle Tracking Application <https://vlts.bihar.gov.in..>

NIC, Bihar has been designated as the nodal agency for undertaking the technology implementation of the proposed vehicle tracking system.

The transporter will procure tested and approved VTD devices directly from any of the agency **approved by Transport Department Bihar** and get it installed in Mineral Carrying Vehicles associated with Mines & Geology Department, Government of Bihar. The Agency will have to Supply, Install, Commission the VTD in the vehicles and get it integrate with VLTS Portal (<https://vlts.bihar.gov.in/>).

It will be ensured by the vehicle owners that they will get the registration and activation of Vehicle Location Tracking Device (VLTD) done from the companies approved by Transport Department, Government of Bihar which will be available on the website of Transport Department, https://state.bihar.gov.in/transport/cache/16/27-Sep-23/SHOW_DOCS/21%20manufacture%20approval.pdf

Vehicle owners should only install VLT devices installed by an authorised dealer or a model approved by MoRTH. Every customer must have an invoice that shows they have paid GST.

Please check the below step to configure VLT device in Bihar Mining.

1. VLT device must be AIS-140 and approve by MoRTH <https://morth.nic.in/list-approved-vehicle-location-tracking-device-manufacturers>.
2. Install the MoRTH approve VLT Vendor devices in vehicle.
3. VLT device must have valid eSim Validity.
4. Set the bihar mining IP i.e. vlts.bihar.gov.in to VLT device by device manufactures or its authorize agencies.
5. Set the port i.e. 9999 to VLT device by device manufactures or its authorize agencies.
6. Update the firmware as per AIS-140 protocol only of those how have different proto

सार्वजनिक सेवा यानो में VLT उपकरण फिटमेंट हेतु स्वीकृति प्राप्त कंपनियों की सूची :-

Sr. No.	VLTD Manufacturer Company Name/ Address	आदेश संख्या / तिथि	VLTD Manufacturer Contact Number and Email Id
1	M/s Nippon Audiotronix Pvt. Ltd. Plot No. 446, Sector 8 IMT Manesar Gurgaon, Manesar-122051 Haryana INDIA	आदेश सं०-4629 दिनांक-28.07.2022	7290038016 sales1@nipponaudio.com
2	M/s BlackBox GPS Technologies Opc Pvt. Ltd. Unit No E5d, 5th Floor, Tower B, Godrej Eternia, Plot no 70 Industrial Area Phase-1, Chandigarh- 160002	आदेश सं०-4627 दिनांक-28.07.2022	9316951979 khushdeep@blackboxgps.net
3	M/s Mentation Technologies Pvt. Ltd. 1st Floor, D-102, New Chandan Avenue Mira Bhayander Main Road, Mira Road East, Thane, Maharashtra-401107	आदेश सं०-4628 दिनांक-28.07.2022	9999891715 nitin.navneet@mentationgroup.com
4	M/s Watsoo Express Pvt. Ltd. Plot no. 872,1st Floor, Udyog Vihar, Phase-V, Gurugram, Haryana-122016	आदेश सं०-5090 दिनांक-18.08.2022	8448835133 vltd@watsoo.com
5	M/s Amazon Infosolution Pvt. Ltd. 503, 5th Floor Kashyap Shailja Tower, Kankarbagh, Patna, Bihar - 800020	आदेश सं०-5358 दिनांक-26.08.2022	9513992362 sales@itriangle.in
6	M/s iTriangle Infotech Pvt. Ltd. 803/A,76th A Cross, 6th Block, West of Chord Road, Rajajinagar, Bengaluru, Karnataka - 560010	आदेश सं०-5358 दिनांक-26.08.2022	9513992362 sales@itriangle.in
7	M/s Ecogas Impex Pvt. Ltd. Plot no.51, New DLF Industrial Area, Phase-I, Faridabad, Haryana - 121003	आदेश सं०-5569 दिनांक-01.09.2022	9555485959 tech@ecogas.co.in
8	M/s GRL Engineers Pvt. Ltd. 31 IDC Industrial area, Opp. Jindal Marg, Hisar, Haryana - 125005	आदेश सं०-5871 दिनांक-12.09.2022	9996031538 info@grlengineers.net
9	M/s Acute Communication Services Pvt. Ltd. C-6/248, Yamuna Vihar, Delhi - 110053	आदेश सं०-5869 दिनांक-12.09.2022	8826262525 sangeet.bhati@acutecommunication.in
10	M/s Atlanta Systems Pvt. Ltd. M-135, 2nd Floor, Connaught Place, New Delhi - 110001	आदेश सं०-6031 दिनांक-16.09.2022	9312912400 niraj@atlantasy.com
11	M/s Gtropy Systems Pvt. Ltd. 237, Ground floor, Okhla Industrial Estate Phase- 3, New Delhi - 110020	आदेश सं०-6255 दिनांक-24.09.2022	9311235014 jayant.kumar@gtropy.com
12	M/s Volty IOT Solutions Pvt. Ltd. 703/A, 4th floor, Road no. 36, Jubilee Hills, Hyderabad - 500033	आदेश सं०-6256 दिनांक-24.09.2022	9990020250 vikas.jaiswal@voltyit.com

13	M/s PNV Electronics and IT Services Pvt. Ltd. E-14 GNEPIP Greater Noida Guatam Budh Nagar, Uttar Pradesh - 201308	आदेश सं०-671 दिनांक-03.02.2023	9999800768 admin@pnvit.in
14	M/s Accolade Electronics Pvt. Ltd. Accolade Innovative Centre, Floors 2&3, Opp. Walnut School Shivane, Pune - 411023	आदेश सं०-669 दिनांक-03.02.2023	9370147536 datta.gherade@accoladeelectroni cs.com
15	M/s Danlaw Technologies India Limited. Unit Nos. 201, 202 & 203, Gowra Fountainhead, HUDA Techno Enclave, Patrikanagar, Madhapur, Hyderabad - 500081	आदेश सं०-668 दिनांक-03.02.2023	7904489881 rajendrants@danlawtech.com
16	M/s Markon Electronics Corporation Pvt. Ltd. U-1, Central Ground Floor, Green Park Extension, New Delhi - 110016	आदेश सं०-670 दिनांक-03.02.2023	7324947777 admin@iconcox.in
17	M/s RDM Enterprises Pvt. Ltd. C/O Amit Walecha, Mustatil No-280, Kila No- 1/1,2/1, Near Bukhram Factory, Ram Nagar, Palwal, Haryana - 121102	आदेश सं०-667 दिनांक-03.02.2023	9996717788 info@rdmenterprises.in
18	M/s Accolade Electronics Pvt. Ltd. Accolade Innovative Centre, Floors 2&3, Opp. Walnut School Shivane, Pune - 411023, Maharashtra.	आदेश सं०-4517 दिनांक-14.06.2023	9370147536 datta.gherade@accoladeelectronic s.com
19	M/s Danlaw Technologies India Limited. Unit No. 201, 202 & 203, Gowra Fountainhead, Huda Techno Enclave, Patrikanagar, Madhapur, Hitechcity, Hyderabad - 500081	आदेश सं०-4516 दिनांक-14.06.2023	7904489881 rajendrants@danlawtech.com
20	M/s VDK Engineering Pvt. Ltd. C/o B.K Construction and Co., Amit Kumar Patwari, Pusaro Pull, Sarwa Dumka 814101 (Jharkhand)	आदेश सं०-4514 दिनांक-14.06.2023	7004424825 vdkengpvtltd@gmail.com
21	M/s ZF Commercial Vehicle Control Systems India Limited. 3rd Main Road, Ambattur Industrial Estate, Chennai 600058, Tamil Nadu.	आदेश सं०-4515 दिनांक-14.06.2023	9790990721 davidamalraj.a@zf.com
22	M/s Arya Omnitalk Wireless Solutions h/t. Ltd. Unit No. A-202, Summer Court Building Magarpatta City Hadaspur' Pune - 411013,	आदेश सं०-6656 दिनांक-15.03.2024	9763930369 kyermalkar@arvaomnitalk.com

बिहार सरकार
परिवहन विभाग
आदेश

संख्या-06/VLT(BG)-13-35/2022 - 6660

दिनांक- 15/3/2024

सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार की अधिसूचना संख्या-5453 (अ) दिनांक-25.10.2018 एवं अधिसूचना संख्या-5454 (अ) दिनांक-25.10.2018 द्वारा केन्द्रीय मोटरयान नियमावली, 1989 के नियम 125(ज) के उपनियम-1 में विनिर्दिष्ट सभी सार्वजनिक सेवा यानों में VLTD एवं आपातकालीन बटन लगाया जाना अनिवार्य किया गया है।

सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार की उपर्युक्त अधिसूचना के आलोक में M/s Mijo Auto Gas Pvt. Ltd. द्वारा केन्द्रीय मोटरयान नियमावली, 1989 के नियम 126 के आलोक में प्राधिकृत जाँच एजेंसी ICAT, Manesar से AIS-140 के अनुरूप VLTD एवं इमरजेंसी बटन का टाईप अप्रूवल सर्टिफिकेट प्राप्त किया गया है।

प्राधिकृत जाँच एजेंसी से प्राप्त टाईप अप्रूवल सर्टिफिकेट के आलोक में M/s Mijo Auto Gas Pvt. Ltd. को सार्वजनिक सेवा यानों में निम्नांकित शर्तों के साथ VLTD एवं इमरजेंसी बटन लगाने की स्वीकृति प्रदान की जाती है:-

Sl. No	Detail as per Type approval Certificate as CMVR	
1	Name of Manufacturer & Address	M/s Mijo Auto Gas Pvt. Ltd. S-110 Phase-1 Badli Industrial Area Delhi - 110042
2	Agency TAC no. & Date	ICAT, Manesar CP8736 Dated 02-05-2023
3	Test Report no. & Date	CT0GS8735 Dated 02-05-2023
Detail of Vehicle Tracking Device and Emergency button		
4	Vehicle Tracking Device	TrackPro
5	Emergency Button	MES
6	GNSS/GPS Make/Module	ALLYSTAR GEM1205 (GPS+IRNSS)

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बिहार सरकार
परिवहन विभाग
आदेश

संख्या-06/VLT(BG)-13-35/2022 - 6656

दिनांक- 15/3/2024

सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार की अधिसूचना संख्या-5453 (अ) दिनांक-25.10.2018 एवं अधिसूचना संख्या-5454 (अ) दिनांक-25.10.2018 द्वारा केन्द्रीय मोटरयान नियमावली, 1989 के नियम 125(ज) के उपनियम-1 में विनिर्दिष्ट सभी सार्वजनिक सेवा यानों में VLTD एवं आपातकालीन बटन लगाया जाना अनिवार्य किया गया है।

सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार की उपर्युक्त अधिसूचना के आलोक में M/s Arya Omnitalk Wireless Solutions Pvt. Ltd. द्वारा केन्द्रीय मोटरयान नियमावली, 1989 के नियम 126 के आलोक में प्राधिकृत जाँच एजेंसी ARAI, Pune से AIS-140 के अनुरूप VLTD एवं इमरजेंसी बटन का टाईप अप्रूवल सर्टिफिकेट प्राप्त किया गया है।

प्राधिकृत जाँच एजेंसी से प्राप्त टाईप अप्रूवल सर्टिफिकेट के आलोक में M/s Arya Omnitalk Wireless Solutions Pvt. Ltd. को सार्वजनिक सेवा यानों में निम्नांकित शर्तों के साथ VLTD एवं इमरजेंसी बटन लगाने की स्वीकृति प्रदान की जाती है:-

Sl. No	Detail as per Type approval Certificate as CMVR	
1	Name of Manufacturer & Address	M/s Arya Omnitalk Wireless Solutions Pvt. Ltd. Unit No. A-202, Summer Court Building Magarpatta City Hadaspur, Pune - 411013
2	Agency TAC no. & Date COP no. & Date	ARAI, Pune AK9073 Dated 08-05-2019 AK9073 Dated 03-05-2023
3	Test Report no. & Date	ARAI/AED/20232024/3000029009/COP/0163 Dated 03-05-2023
Detail of Vehicle Tracking Device and Emergency button		
4	Vehicle Tracking Device	AUTOTRAX 65 I
5	Emergency Button	EMR01
6	GNSS Chip Make & Module	Quectel L89

Vehicle Location Tracking System
for
Mining Department
Govt of Bihar

Pre-requisite

1. Truck carrying minerals must be fitted with AIS-140 VLT Devices

Vehicle Location Tracking Device (VLTD) : AIS – 140 Standard

- a) Recommended by MoRTH
To Standardize the specification of VLTD across the country, AIS 140 standards were released by ARAI for Ministry of Road Transport & Highway (MoRTH).
- b) Capable of obtaining position information using Global Navigation Satellite System (GNSS)
- c) Capable for operating in L and/or S band and include support for NAVIC/IRNSS
- d) Device have a position accuracy of minimum 2.5 m CEP or 6 m 2DRMS
- e) Capable of transmitting data to Backend Control Server via Wide Area (Mobile) Communications network (GSM/GPRS)
- f) Internal back-up battery to support 4 hours of normal operations
- g) Store data in internal memory during communication network unavailability and transmit the data when the connection resumes in last in first out (LIFO) manner.
- h) Support Embedded SIM to cater to the automotive operational requirement such as vibration, temperature and humidity and provide long life span with at least 10 years life and more than 1 million read/write cycles
- i) Data Receiving Frequency Engine On - 30 Secs - 2 Mins
- j) Data Receiving Frequency Engine Off - 2 – 10 Mins
- k) Sends 52 Parameters
- l) Devices comes with 2 years data plan and warranty
- m) empanelled VLTD vendor are available at MoRTH Site

2. Hosting infrastructure

3. Domain name -

1. For web application (for accessing application)
2. For Listener (address of the server getting data from VLTD)

How to get data from VLTD

Only by setting url (of listener) and port number in device.

Protocol – AIS 140.

Whitelisting in portal.

4. APIs-

VLTD Maker API of MoRTH

In order to verify genuineness of VLT device.

To get device details.

VAHAN API of MoRTH

To verify vehicle details i.e. Validity, Insurance, PUC. etc.

To obtain these APIs ,Department would have to write to MoRTH in prescribe format.

Proposed System



- source location (pre – filled)
- Destination Location (select from map)
- Vehicle Number fitted with VLTD
(VLTD information will be confirm from VLTD
Maker)

Start trip (can be started when vehicle reached at define proximity
of source)

- Feature of System
- Real Time tracking
 - Clustered view
 - Route deviation alerts.
 - History tracking.

End Trip (Software can end trip logically is vehicle reach destination)

New Vehicle Registration on <https://khanansoft.bihar.gov.in/>

Step 1. Go to the <https://khanansoft.bihar.gov.in/>

Step 2. Click on Vehicle Registration

- **Select State and Enter Vehicle Registration Number**
- **Enter Aadhaar No, Owner Name, Gender, Year of Birth and Mobile No of owner of Vehicle**
- **Click on Get Details and Register the vehicle**