



HINDUSTAN ZINC LIMITED

Yashad Bhawan, Ext.-CRDL
P.O. Zinc Smelter, Debari – 313 024
UDAIPUR, (RAJ.)
Tel. No. 0294 – 2652159, 2652143

NOTICE OF INVITATION OF TENDER FOR GPS SERVICES AND OPERATIONS OF LOGISTICS CONTROL CENTRE

Tender No.HZL/CONT/GPS/17-20/08

Date: 07.07.2017

LAST DATE OF SUBMISSION: 15.07.2017

M/s _____

Dear Sir (s),

1. Sealed tenders are invited for the providing GPS services, real time tracking and operations of logistics control center across all the Plants of HZL specified under “Scope of Work” appended hereto.
2. Tenders must be submitted in sealed envelope superscripted on the face thereon “Tender for GPS services & operations of logistics control center & Tender number HZL/CONT/GPS/17-20 dated 07.07.2017.

Yours sincerely,

For **HINDUSTAN ZINC LIMITED,**

(Authorised Signatory)

Address to submit the tender

Head - Logistics

Hindustan Zinc Ltd.

C.R.D.L. Building

P.O: Zinc Smelter,

Debari-313024, Udaipur (Raj)

MAIN TERMS & CONDITIONS

SCOPE OF WORK:

100% GPS device installation in all vehicles as per details given below:

1. Dedicated vehicles used for inter unit Transportation (IUT) of concentrate, coal, calcine, cathode and any other bulk material.
2. All store vehicles reporting at Plants on daily basis.
3. Any other vehicle entering into Plant premises

IUT Operations:

When vehicle arrives at plant for IUT loading

- a. In case vehicle is Dedicated Vehicle – GPS Device and Accessories will have been previously installed in the vehicle on permanent basis and in case device is offline, it will be repaired by service provider.
- b. In case vehicle is a market fleet and is not GPS Enabled, Installation of GPS Device, Hooter and Immobilizer will have to be at Plant Location by Service Provider

In case of market fleet, GPS Device and Accessories will be uninstalled at the time of Exit from the Destination Plant

IT Integration for IUT vehicles:

- At Origin Plant Entry – HZL will push Allow Slip Details – From HZL SAP to Service provider servers (API to be developed by Service provider)
 - a. Mandatory fields - Vehicle Number, Route ID, Destination Plant, Any unique mandatory field for the shipment (like Allow Slip No), RFID Card No.
 - b. Optional -LR No, PO No, Quantity
- Service provider will push GPS Status of Vehicle to HZL SAP upon receipt of Allow Slip
- HZL will push weigh bridge done/not done status OR weight as stored on SAP to Service provider
- At Destination Plant Entry – HZL will push Allow Slip Details – From HZL SAP to Service provider servers (API to be developed by Service provider)
 - a. Mandatory fields – Vehicle Number, Route ID, Any unique number (Allow Slip No), RFID Card No.
- Service provider will push GPS Status of Vehicle to HZL SAP upon receipt of Allow Slip
- HZL will push weigh bridge done/not done status OR weight as stored on SAP to Service provider

Exceptions for IUT vehicles:

- In-Plant turnaround time
- On-Route Stoppage
- Route Deviation – In Plant
- Route Deviation – In Plant – Immobilized
- Route Deviation – Out of Plant
- Destination Change
- GPS Blackout
- Unauthorized Zone Entry

STORES Operations:

1. Installation of GPS Device, Hooter and Immobilizer will be done before Entry into Plant at Plant Location - Service provider
2. At time of exit from the plant, GPS device, Hooter and Immobilizer will be uninstalled from the vehicle – Service provider

IT Integration for Store vehicles:

- At Plant Entry – HZL will push Allow Slip Details – From HZL SAP to Service provider servers (API to be developed by Service provider)
 - a. Mandatory fields - Vehicle Number, Route ID, Any unique mandatory field for the shipment (like Allow Slip No), RFID Card No.;
 - b. Optional -LR No, PO No, Quantity
- Service provider will push GPS Status of Vehicle to HZL SAP upon receipt of Allow Slip
- HZL will push weigh bridge done/not done status OR weight as stored on SAP to Service provider

Exceptions for Stores Vehicles:

- In-Plant turnaround time
- On-Route Stoppage
- Route Deviation – In Plant
- Route Deviation – In Plant – Immobilized
- GPS Blackout

Logistics Control Centre:

SCOPE:

- Control Centre to be equipped with LEDs for real time tracking of all vehicles on 24X7 basis
- Control Centre will monitor all movement of vehicles within and outside the plant
- Control Centre will analyze all exceptions for each type of movement, study the exception in detail to distinguish between real exceptions and otherwise
- Real exceptions will be reported to HZL for further action and closure
- Frequency of exception will be as decided by HZL
- Auto alerts through text SMS /voice SMS to transporters/ stakeholders will be generated in case of route deviations and excess stoppages.
- Stoppages on different routes are being fixed and halting of vehicles other than these stoppages will be considered as unauthorized and alert will be send to the transporter.
- Stoppage trend of all the vehicles will be analyzed to find out “vulnerable points” where there are probabilities of malpractices.
- Transit time of all the vehicles will be monitored and circulated on daily basis.
- The telephonic conversations between the GPS service provider employees and the transporter will be recorded for any future reference.
- All the activities inside the control Centre will be monitored through CCTV cameras.

Inventory of GPS

Approx. 1000 no. of GPS devices will be required for IUT and Store vehicles

MIS Reports –

100% GPS enabled movement

Exceptions report

Trip details

Any other trip related information will be developed on Service provider portal

Transshipment not allowed

Stock in Transit report with Addl reports: as required, then to be dug out from SERVICE PROVIDER system generated own MIS

Transit time over run.

Route deviation...other than defined route

GPS blackout

Penalty:

To be imposed by HZL, if lapses in alerts/reports/non availability of GPS device

Contract Manager:

Single coordination with HZL representative for alerts/deviations

Transporter appointed by HZL shall return back the GPS device and if not returned, then Service Provider to bring to HZL notice within 24 hrs

Device Capability and working philosophy

The devices will have mechanism to lock the device to the truck using a plastic tie with serial number and the same will be made available in our web application and in SAP also.

To streamline the process service provider will provide a web interface to create requirements. The requirement will be used as a input to service provider team to mobilize the resources.

The service provider team on the ground will install GPS devices, secure the device to the truck using a pre-printed serial numbered tie belt. This information will be made available in service provider website and SAP with few minutes in normal circumstances and with 8 hours in case of network failure at the ports which happen frequently.

HZL will enter any deviation if they find during any day so that all the vehicles of that day are minutely examined by the service provider team to find a possible trend.

To ensure that the security forces are properly doing the patrolling across the route, service provider will provide them a application which will help HZL trace them. It will also have the feature for the security team to photograph different vehicles they are chasing during a day. All photo graphs taken by this application will be having time stamp and location details taken using GPS in the phone.

Service provider will conduct a GAP analysis session for HZL For 3 days after the signing of the PO based on availability of HZL stake holders.

All required changes will be done by service provider team. Any change required in gap analysis will be done by service provider without any extra cost. HZL holds the right to ask for changes in the first 30 days of signing the PO.

Any change required in the software after expiry of these 30 days will be billable irrespective of the size of change. Any kind of effort required apart from tracking the vehicles will not be rendered. HZL will have to use the website to see reports in graphical format apart from reports which will come daily in email. HZL will provide 7 days prior information before starting a port.

Device Tampering and loss of device / SIM card

In case a device is purposefully made to fail by cutting the device wire, injecting water into the device or any process to forcefully spoil / stop the device from working properly will be considered as tampering. As device tampering can lead to major system failure and wrong reporting hence it is very important to heavily discourage drivers from doing such activities. To be brought in notice with immediate effect.

Device warranty

The Device should carry a warranty of 3 year from the date of delivery to the customer. Any manufacturing defect is covered under warranty. Any device problem due to tampering or accident is not covered under warranty.

Minimum contract per month

No Minimum Guarantee for devices and the contract will be 36 Months

OPERATIONS AND INTEGRATION WITH ITMS.2:

At Source Plant:

- 1) Allow Slip is created on ITMS 2.0 by HZL's Gate staff upon reporting at plant
 - a. If vehicle is reporting for the first time, vehicle is created on Masters and asked to report to Service provider team for installation
 - i. Vehicle Details – Vehicle No, GPS Device No, CLEAN/UNCLEAN status are pushed to SAP using PI bridge upon first time installation
 - b. If vehicle's status is Clean, the Allow Slip is generated containing details of In Plant Route ID, Item Details, Purpose etc. and goes towards Allow Slip Approval
 - c. If vehicle's status is Unclean, due to GPS related issue, Service provider team will evaluate and rectify the issue before changing the status to CLEAN
 - d. If vehicle's Unclean status is due to Non-GPS related issue, the HZL Business Team is informed and after inspection can change the status to CLEAN
- 2) Once Allow Slip Approval is received, In Plant Trip of the vehicle is created on Service provider's system and Control Centre starts monitoring In-Plant movement of the vehicle
- 3) Control Centre will update CLEAN/UNCLEAN status of the vehicle as per exceptions / violations generated inside the plant
 - a. Route Violation
 - b. Weight Event violation
 - c. Speed Violation
- 4) ITMS 2.0 will push data of vehicle crossing RFID readers placed at Material Entry, Weigh Bridge, Material Exit Gate and any other readers to Service provider's systems
- 5) Once vehicle crosses Weigh Bridge entry, the weight event (Time, Weight etc) is generated in ITMS 2.0 and pushed to Service provider
 - a. In case Vehicle crosses the WB Geofenced area without Service provider receiving Weight Event, CC will raise an alarm and immobilize the vehicle

- b. In case Vehicle crosses the WB Geofenced area after receiving a “Successful Weight Not Done” Event, CC will raise an alarm and immobilize the vehicle
- 6) Vehicle continues on its in-plant route, loads and returns to the Weigh Bridge where Point 5 is repeated
- 7) ITMS 2.0 will push Invoice No / Allow Slip No / other unique no and “TOBETRACKED” flag for identifying Unloading Plant, and other invoice details
- 8) Vehicle’s Allow Slip is closed upon crossing the Material Exit Gate / entering PP
- 9) Trip to Unloading Plant is started upon exit from Plant Geofence
- 10) Control Centre (CC) monitors the movement of the vehicle until it reaches Unloading Plant and evaluates exceptions / violations.

At Unloading Plant

- 11) Once the vehicle reports at Unloading Plant Geofence, the vehicle details plus reporting time will be pushed to HZL’s SAP system using a PI Bridge and stored in a Vehicle Details Table (VDT)
- 12) Upon reporting at Unloading Plant, Vehicle’s Clean/Unclean status is pushed to ITMS 2.0 by Service provider
- 13) Allow Slip is already generated on ITMS 2.0 when the vehicle reports at plant.
- 14) Once Auto Allow Slip Approval is received, In Plant Trip of the vehicle is created on Service provider’s system and Control Centre starts monitoring In-Plant movement of the vehicle
- 15) Depending on the CLEAN/UNCLEAN status of the vehicle on ITMS 2.0, the following actions are taken
 - a. If vehicle’s status is Clean, the vehicle continues inside plant
 - b. If vehicle’s status is Unclean, due to GPS related issue, Service provider team will evaluate and rectify the issue before changing the status to CLEAN
 - c. If vehicle’s Unclean status is due to Non-GPS related issue, the HZL Business Team is informed and after inspection can change the status to CLEAN
- 16) Control Centre will update CLEAN/UNCLEAN status of the vehicle as per exceptions / violations generated inside the plant
 - a. Route Violation
 - b. Weight Event violation
 - c. Speed Violation
- 17) ITMS 2.0 will push data of vehicle crossing RFID readers placed at Material Entry, Weigh Bridge, Material Exit Gate and any other readers to Service provider’s systems
- 18) Once vehicle crosses Weigh Bridge entry, the weight event (Time, Weight etc) is generated in ITMS 2.0 and pushed to Service provider
 - a. In case Vehicle crosses the WB Geofenced area without Service provider receiving Weight Event, CC will raise an alarm and immobilize the vehicle
 - b. In case Vehicle crosses the WB Geofenced area after receiving a “Successful Weight Not Done” Event, CC will raise an alarm and immobilize the vehicle
- 19) Vehicle continues on its in-plant route, unloads and returns to the Weigh Bridge where Point 18 is repeated
- 20) Vehicle’s Allow Slip is closed upon crossing the Material Exit Gate / entering PP
- 21) MIS Reports to monitor Exceptions, Trip details, In Plant TService provider, and any other trip related information will be developed on Service provider portal

STORES OPERATIONS

- 1) Once the vehicle reports at Plant Geofence, vehicle reports to Service provider team to get GPS installed
- 2) Vehicle details plus reporting time will be pushed to HZL's SAP system using a PI Bridge and stored in a Vehicle Details Table (VDT)
- 3) Allow Slip is created on ITMS 2.0 by HZL's Gate staff upon reporting at plant
 - a. If vehicle is reporting for the first time, vehicle is created on Masters and vehicle's CLEAN/UNCLEAN status is updated as per VDT
 - b. If vehicle's status is Clean, the Allow Slip is generated containing details of In Plant Route ID, Item Details, Purpose etc. and goes towards Allow Slip Approval
 - c. If vehicle's status is Unclean, due to GPS related issue, Service provider team will evaluate and rectify the issue before changing the status to CLEAN
 - d. If vehicle's Unclean status is due to Non-GPS related issue, the HZL Business Team is informed and after inspection can change the status to CLEAN
- 4) Once Allow Slip Approval is received, In Plant Trip of the vehicle is created on Service provider's system and Control Centre starts monitoring In-Plant movement of the vehicle
- 5) Control Centre will update CLEAN/UNCLEAN status of the vehicle as per exceptions / violations generated inside the plant
 - a. Route Violation
 - b. Weight Event violation
 - c. Speed Violation
- 6) ITMS 2.0 will push data of vehicle crossing RFID readers placed at Material Entry, Weigh Bridge, Material Exit Gate and any other readers to Service provider's systems
- 7) Once vehicle crosses Weigh Bridge entry, the weight event (Time, Weight etc) is generated in ITMS 2.0 and pushed to Service provider
 - a. In case Vehicle crosses the WB Geofenced area without Service provider receiving Weight Event confirmation, CC will raise an alarm and immobilize the vehicle
 - b. Weigh Bridge Event is not Mandatory
- 8) Vehicle continues on its in-plant route, unloads and returns to the Weigh Bridge where Point 7 is repeated
- 9) Vehicle's Allow Slip is closed upon crossing the Material Exit Gate / entering PP
- 10) Service provider team uninstalls the GPS system from the vehicle
- 11) MIS Reports to monitor Exceptions, Trip details, TService provider, and any other trip related information will be developed on Service provider portal

PLANT EMERGENCY STATUS

1. In Case "Emergency Status" is declared inside a plant by the Plant SPOC, Service provider will "Flag" off all In-Plant Vehicle Validations
 - a. Hooter
 - b. Immobilization
2. Exceptions and Violations will still continue to get generated and monitored by Control Centre
3. When "Emergency Status" is called off by Plant SPOC, the "Flag" will be reversed and validations will resume

CLEAN / UNCLEAR STATUS CHANGING SOP

- 1) A vehicle's Clean status can be modified by any of the following parties
 - a. Control Centre
 - b. HZL Business Staff
 - c. HZL Security / Gate Staff
- 2) All Status changes will happen on Service provider's Portals
- 3) Any new vehicle's default status will be CLEAN
- 4) A vehicle's status can be changed to Unclean by Control Centre on the basis of exceptions which are detailed in another section
- 5) A vehicle's status can be changed to CLEAN by Control Centre after verifying the GPS system and rectifying it only
 - a. In case GPS system was tampered with, the status will not be changed by CC
- 6) HZL Business Team has the right to change CLEAN/UNCLEAR status as per their understanding.
- 7) All Clean/Unclean changes document to have logs and remarks

EXCEPTIONS AND VIOLATIONS

In Plant Exceptions

- 1) Route Deviation
- 2) Speed Violation
- 3) Weigh Bridge Missed
- 4) GPS Tampered
- 5) GPS Not Working

Out-of-Plant Exceptions

- 1) GPS Not Working
- 2) GPS Tampering
- 3) TAT Violation
- 4) Unauthorized Stoppage
- 5) Destination not Hit
- 6) Speed Violation
- 7) Transshipment not allowed

HZL Scope

1. Access to PI System
2. Access to SAP Development Environment
3. Access to ITMS 2.0
4. Access to Location Premises for Service provider's developer(s)
5. Seating for Service provider's developer(s) for duration of SAP Integration
6. Consultancy and Assistance from HZL's SAP Expert
7. VPN and Network Access
8. List of Dedicated Vehicles
9. Location for establishing Control Centre within CLZS premises with Electricity and other basic amenities

10. Storage space for GPS Devices and Waiting space for installers at each Location and Port
11. Access for installers to enter the premises where device installation / repair needs to happen
12. Periodic meeting with IT and Business Team to review and streamline operations

COMMERCIALS:

Per trip Cost

This cost should be based on 36 month contract.

Rates for IUT and Store vehicles:

Rates to be quoted on per month and per device basis which should be inclusive of below mentioned activities:

- GPS Hardware and Accessories on Lease
- Data Analytics and Tracking Solution – Web and Mobile
- Installation and Un-Installation at HZL Plants
- Control Centre for Fleet Management and Exception Handling
- Training and Support for Software Use
- ERP Integration
- Custom Report & Dashboard Developments

Rates for Security & other plant vehicles:

Rates to be quoted on per month and per device basis which should be inclusive of below mentioned activities:

- GPS Hardware and Accessories on Lease
- Web and Mobile Tracking Solution
- Driver Mobile App for reporting defaults
- Installation and Maintenance at HZL Plants
- Control Centre for Fleet Management and Exception Handling

Other terms & conditions:

- i. Service Providers have to submit the **Bank Guarantee (BG) for Rs.10 Lacs** as Security Deposit within 15 days on award of contract valid for a period of six months in excess of validity period of the contract.
- ii. For payment, service provider is required to submit Bills with all relevant documents with proof of fixing GPS devices, for which payment will be released within 15 days after submission of bills after deducting TDS as applicable. However, delay in payment of bill due to any reason will not vitiate other terms of the contract nor will it give any right to the service provider to suspend the work.
- iii. In case any person is deployed by the service provider inside our Plants including Supervisor or labour, the same will have to undergo safety training. Service provider shall comply in all respect with the provisions of all statutes, rules and regulations applicable to the service provider and/or to the service provider's employees including but not limited to PF act, minimum wages act , ESI Act & Bonus Act & particular the Contract labour (Regulations & Abolition Act,1970) & the rules made there under.
- iv. Service Provider has to ensure that the wages to their employees is distributed by 7th of every month as per the rates decided by HZL from time to time and the PF and ESI are deposited by 20th of every month. In case of deviation, HZL shall impose suitable penalty on the Service Provider.
- v. All the persons deployed by the Service Provider inside the Plant should have to strictly follow our safety rules and wear all the necessary PPEs for safe execution of the job which includes safety gadgets like safety shoes, helmets, reflective jackets etc..
- vi. Service provider shall be responsible to secure compliance with all central and state laws as well as the rules, regulations, bye-laws / notifications and orders of the local authorities and statutory bodies as may be in force from time to time
- vii. Service Provider will take necessary steps to protect the material from loss, damage or deterioration till it gets delivered to destination. Service Provider shall be responsible for all loss, destruction, damage and or deterioration of the material from any cause, whatsoever, while in transit or during handling.

For Hindustan Zinc Limited

For Tenderer

Authorised Signatory

**Authorised Signatory with
seal of the company**

ANNEXURE – “A”

Please submit following details along with the tender :

(you can use additional sheet for furnishing full details where ever it is required)

S.No.	Description	Details
1.	Name of the Firm	
1(i)	Sister concern(s) (Name/ details if any)	
2.	Head Office Address : Contact person (Owner/Director name) Tel. No. Mobile No. e- mail address	
2.(a)	Registered Office Address : Contact person Tel. No. Mobile No. e- mail address	
3.	No. of Branches in India No. of Branches out of India (List with contact details to be attached)	
3(i)	If you have branch at Chittorgarh : Branch address Contact person Tel. No. Mobile No. e- mail address	
3 (ii)	If you have branch at Udaipur : Branch Address Contact person Tel. No. Mobile No. e- mail address	
4	Status – Company/ Partnership firm / Proprietorship etc. (attach document)	
4(i)	Date of Firm start	
5	Permanent Account no. (PAN no.)	

6	GST no.	
7	Projected turnover 2016-17	
7(i)	Audited turnover 2015-16 (Attach Balance sheet)	
7(ii)	Audited turnover 2014-15 (Attach Balance Sheet)	
8	Your dealing Bank(s)	
9	Your Major Client(s) during the current year 2016 -17 with approx. turn over (attach W.O.copy)	
10	Were you had been working with any of Vedanta group unit in last 3 years, furnish unit name with turnover.	