

**GOVERNMENT OF PAKISTAN**  
**HQ NATIONAL LOGISTIC CORPORATION**  
**INVITATION TO TENDER**  
**FOR SUPPLY OF HIGH – CAPACITY ROLLING STOCK TRACKING**  
**INSTRUCTION TO TENDERERS - WORDS OF CAUTION**

1. **Participation of Tender.** The tender can be participated by following: -
  - a. **OEMs (Original Equipment Manufacturers)**
  - b. **OEM Authorized Dealers / Re-Sellers having OEM Authorization Letter with sustained financial capability**
2. **Eligibility / Bid Qualification Criteria.** The bidder must prove his eligibility by completing the Bid Qualification Criteria as following.

Ser	Check List	Yes / No
a.	Tender Fee	
b.	Bid Security	
c.	Copy of NTN / STRN and Active Tax Filer with 100% compliance	
d.	Certificate to compliance to the GSR	
e.	Authorization Letter from OEM	
f.	Complete Tech Data of Equipment	
g.	90 x Days Offer Validity	
h.	Confirmation to Delivery Period	
i.	Comparison Chart (NLC Specification and Firm Offer)	
j.	Not Blacklisting Affidavit	
k.	Certificate to accept all conditions of tender	
l.	List of Major Clients	
m.	Hierarchy of the firm along with portfolio of owner & top management be attached	

3. **Special Conditions**
  - a. Bidder must provide the Authorization Letter from OEM / Authorize Dealer / Re-Seller.

- b. Quoted items / equipment should be Branded and Brand New.
  - c. Firms are only allowed to quote only 1 x variant / model of item being quoted.
  - d. Offer should also accompany complete technical data of the equipment.
  - e. Firms must provide all relevant import documents to the purchaser (If Required).
  - f. Offers must be prepared on firm's letter head, accompanied by the schedule to tender duly completed / signed / stamped by authorized executive (by name) of the firm without which the offer will not be entertained.
  - g. In case, any firm fail to supply the tendered store as per the Letter of Acceptance / contract Agreement, The NLC has the right to take punitive action against defaulter firm that include confiscation of its bid security, Performance Bank Guarantee and ban to participate in the tender etc.
4. **Rejection of Bid**. A bid will be rejected under following circumstances: -
- a. Bids not qualifying the bid evaluation criteria as mention above.
  - b. Offers not accompanied with complete technical specifications of items being offered and not supported with detailed technical brochures.
  - c. Non responsive bid to any single required criteria / specification
  - d. Non submission of Tender Fee & Bid Security
  - e. Late submission of tender from given date & time
  - f. Offers not complying with the special instructions (para 3 & 4) in addition to other conditions
5. **Bidding Procedure**
- a. Bidding will be conducted under the "Single Stage – Two Envelope" procedure.
  - b. Envelope 1: Technical Proposal (including detailed methodology, hardware datasheets, and compliance matrix).
  - c. Envelope 2: Financial Proposal (itemized costs for hardware, software, installation, and 1-year O&M).
6. **Minimum Eligibility Criteria**
- a. Proven track record in large-scale C4I (Command, Control, Communication, Computing, and Intelligence) systems.

- b. Experience in deploying nationwide digital infrastructure (e.g., AVI/AEI, WIM, and fiber optics).

7. **Evaluation Weightage**

Criteria	Weightage
<b>Technical Competence</b> (Experience, Hardware Specs, Methodology)	Experience / Projects: 30% SLA/Warranty: 15% Coy Certifications: 15% Device Standards Compliance Certificates: 10% <b>Total: 70%</b>
<b>Financial Proposal</b>	30%

8. **Particulars and Specifications.** Standard particulars, and specifications of High – Capacity Rolling Stock Tracking required to be procured is attached at **Annex ‘A’**. The bid must conform to the asked specifications / requirement and acceptance criteria.
9. **Delivery of Tender.** The original copy of the tender is to be enclosed in double cover. (i) Technical Offer (ii) Commercial Offer, separately. The covers should be sealed and bear tender Enquiry Number and date of opening, while the outer cover should bear only address of this office without any indications.
10. **Date and Time for Submission of Tender.**
- a. Tender must reach at HQ NLC, Harding Road Near AFIRM Rawalpindi by the date and time specified in tender notice by hand or by post.
- b. Tender must be dropped in the tender box before given time.
- c. NLC will not be responsible for delay occurring in post.
11. **Pre- Bid Meeting.** Pre-bid meeting will be held at HQ NLC, Harding Road, Support Branch Conference Room on 30 Mar 2026 at 1100 hours to clarify any queries, questions and corresponding replies.
12. **Price**
- a. The firms must quote prices inclusive of all taxes, packing, delivery and installation charges at Rawalpindi etc as per format attached at **Annex “B”**

- b. The price must be quoted in **PAK RUPEE** in figures and words at the appropriate space of the schedule to tender.
  - c. Additional information, if any, must be linked with entries on the Schedule to Tender.
  - d. Prices quoted should be firm and final.
  - e. Tax exemption (if any) may be provided with the tender documents.
  - f. Firm's financial offer must be on letter head duly signed and stamped by executive authority, otherwise offer will be rejected
  - g. 0.25% of the value of contract agreement will be provided by the firms at the time of signing of contract as stamp duty.
  - h. In case of increase in tax by GOP, the additional tax will be paid by purchaser.
13. **Validity of Offers.** The validity period of quoted rates must be indicated and should be at-least 90 days from the date of opening the tender without any condition, extendable for further processing of the case, if required.
14. **Delivery Period.** Delivery must be completed within 60 x days after issuance of LOA (Letter of Acceptance) or Award of Contract (whichever is earlier) at prescribe location, beyond which Late Delivery Charges will apply.
15. **Packing.** Unless a method of packing is indicated in the specification in the schedule to tender form, the method of packing proposed by supplier must be described in schedule to the tender form. Contractors are at liberty to quote for additional alternative sizes and description of packs and these must be described in the schedule of tender. Packing should be such that item shall not damage in transit till place of delivery. **SAFE DELIVERY OF ITEMS IS SOLE RESPONSIBILITY OF FIRM.**
16. **Inspection**
- a. **Pre-Delivery Inspection**
    - (1) Pre-delivery inspection may be carried out at firm's premises before supply, by team of HQ NLC (If Required).

- (2) Inspection will include Quantity, Quality, Conformation to the agreed specification as per LOI / Contract agreement.
    - (3) Firm will dispatch the items / equipment to prescribed location as mentioned in schedule of tender.
    - (4) Inspection (If Required) should preferably be kept at Rawalpindi / Islamabad. Inspection out of Rawalpindi / Islamabad will be carried out on the expenses of firm including travelling, boarding / lodging etc.
  - b. **Final Inspection.** Final Inspection will be carried out by the consignee after delivery & installation for any damages / breakages during transportation and successful functioning.
17. **Arbitration.** Any bidder feeling aggrieved by any act of procuring agency after submission of his bid and prior to award of the contract may lodge a written complaint to procurement agency under Rule - 48 PPRA.
18. **Risk and Expense.** Failure to supply the goods quoted or failure to meet the commitment made regarding delivery schedule, specifications, short supplies etc will authorize HQ NLC to purchase the items at firm's risk and cost.
19. **Force Majeure.** The supplier will not be held responsible for any delay occurring the supply of contracted stores due to event of force majeure such as Act of God, War, Riots, Civil Commotion's Strikes, lock out or disturbance directly affecting the supply over which the supplier has no control. In such an event the contractor shall inform the Purchaser within 15 days of the happening in writing. Non-availability of raw material for the manufacture of stores or the export permit for the export of the contracted stores from the country of its origin shall not constitute Force Majeure.
20. **Late Delivery.** Late Delivery charges will be imposed @ 2% per month or no of days delayed on total cost of contract with effect from original delivery date.
21. **Terms of Payment**
- a. 100% Payment will be made after delivery and Final Inspection after installation and issuance of CRV (Certified Receipt Voucher) by the consignee.
  - b. No advance payment is allowed

22. **Tender Fee and Bid Security**. Both will be prepared in the shape of bank draft in favor of “**National Logistics Corporation HQ Main Account**” and submitted as following: -

- a. **Tender Fee**. Rs 2,000/- must be attached with Technical offer.
- b. **Bid Security**. Rs 500,000/- must be attached with Technical offer.

23. **Bank Guarantee**

- a. Performance Bank guarantee valuing 5% of the contract value must be provided / deposited by the successful firm for award of contract, within 15 days from the signing of the contract / issuance of Letter of Intent (whichever is earlier).
- b. The Guarantee should be from a schedule bank of “AA” rating and valid till one month after warranty period.
- c. Performance Bank Guarantee should be as per format provided by NLC and the currency of PBG should be same as the currency of financial offer.

24. **Warranty Period**. The **warranty period** of equipment will be **One years** starting from the date of CRV. Firm will give comprehensive warranty (duly supported by the OEM).

25. **Comparison Chart**. Firms will also attach comparison chart along with their offer on following lines: -

<b>NLC Specification</b>	<b>Firms Specification</b>	<b>Complied with or Not</b>

26. **Evaluation**: Technical offer of bidders found eligible and qualified as per “**Bid Qualification criteria**” will be evaluated as per specifications (Annex “A”). Financial offers of technically approved bidders will be opened and bidder with the lowest financial proposal will be considered most advantageous bid.

General Manger Procurement, HQ NLC

**HEADQUARTERS NATIONAL LOGISTIC CORPORATION**

**GENERAL CONDITIONS GOVERNING CONTRACT**

1. Tender will be opened at HQ NLC, Harding Road Near AFIRM Rawalpindi at Date and Time mentioned in the newspaper add.
2. Tender will be submitted in accordance with PPRA Rule 36 (b) i.e. Single Stage – Two Envelope Procedure
3. Detail of equipment required to be procured is as under :-

<b>Ser</b>	<b>Items Description</b>	<b>Quantity</b>
a.	SUPPLY OF HIGH – CAPACITY ROLLING STOCK TRACKING	6000

**NL-3**

Address\_\_\_\_\_

Telephone\_\_\_\_\_

Code Used\_\_\_\_\_

From: \_\_\_\_\_

To:

**THE DIRECTOR GENERAL**

**NATIONAL LOGISTIC CORPORATION QMG's BRANCH**

**R.A. BAZAAR GHQ RAWALPINDI**

Dear Sir,

I/We hereby offer to supply to the Director General NLC, the stores as per detail in the Scheduled hereto or such portion thereof as you may specify in the contract at the prices given in the said schedule and agree to hold this offer open till \_\_\_\_\_ . I/We shall be bound by a communication of acceptance dispatched within the prescribed time.

2. I/We have understood the instructions to Tenders and Conditions of Contract as laid down in form NL-2 to "General Conditions Governing Contracts" and have thoroughly examined the specificity/drawing and or pattern quoted in the schedule hereto and am/are fully aware to the nature of the stores required and my/our offer is to supply stores strictly in accordance with the requirements.

3. Recommended technical manual/ data are also enclosed with the offer.

4. The following pages have been added to and form part of this tender:-

Your faithfully

(Signature of Tendered)

Address\_\_\_\_\_

Dated \_\_\_\_\_

Signature of witness\_\_\_\_\_

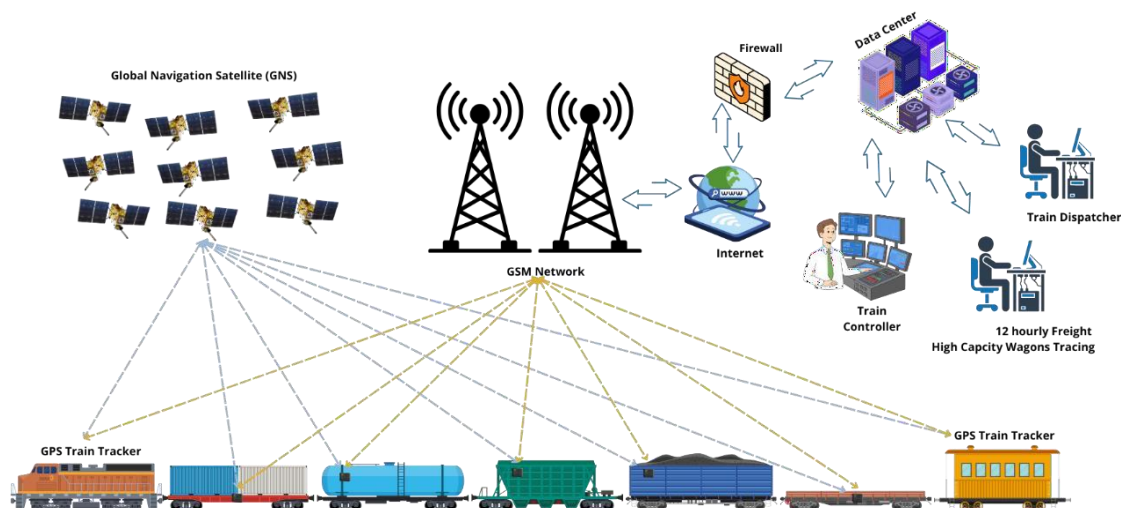
Address\_\_\_\_\_

## SPECIFICATIONS

### HIGH-CAPACITY ROLLING STOCK TRACKING

#### 1.1 TECHNICAL IMPLEMENTATION PLAN

##### Live High Capacity Rolling Stock Tracking Overview



**NOTE:**

- Asset Tracker will send location every 12 hour
- Rugged RFID Tags will also be installed on both sides of High Capacity Rolling Stock

##### 1.1.1 Hardware Solution: ASSET TRACKER

The core of this solution is the Outdoor Rugged All-Weather **Asset tracker**, a robust, long-life asset tracker chosen for its suitability in non-powered environments.

- **Rolling Stock Tracking:** Deployment of high-precision, resilient scheduled live tracking solutions.
- **Battery Life:** Battery Life is  $\geq 10$  years. Capable of sending pings  $\geq 3650$  pings on a single battery.
- **Installation:** One Asset Tracker unit will be installed on each designated High- Capacity Rolling Stock unit.
- **Housing:** Trackers must be encased in specialized, secured metallic housings (welded or bolted) allowing for GPS/GSM transmission.
- **Environment:** IP67 or better protection, operational from  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  or better.

##### 1.1.1.1 Specialized Metallic Housing

To **protect and place** the asset tracker **securely on the train**, a **specialized metallic housing** will be designed and deployed by the vendor. This housing will be securely mounted (welded or bolted) to the rolling stock, encasing the tracker unit while allowing for optimal GPS/GSM signal transmission. The detailed mounting frame design and

installation guidelines will be formally shared with One Network prior to the commencement of asset tracker installation.

## 1.1.2 DATA, REPORTING, AND SOFTWARE PLATFORM

### 1.1.2.1 Data Transmission and Reporting Schedule

The system is designed for high efficiency, providing critical location data at predictable intervals.

1. **Transmission Schedule:** Trackers will be configured to wake and transmit their location **twice daily (12-hourly)**.
  - **Morning Ping:** 6:00 AM
  - **Evening Ping:** 6:00 PM (*Note: This schedule is configurable and can be adjusted based on PR's operational needs.*)
2. **Automated Scheduled Reports:** To ensure immediate data dissemination to relevant PR departments, automated reports will be generated and emailed **five (5) minutes after** each scheduled ping (i.e., at 6:05 AM and 6:05 PM).
- **Wagon Tracking:** Installation of battery-powered asset trackers on **6,000 High- Capacity Wagons**.

### 1.1.3 Command & Control: Centralized Software

All data will be fed into the central **Centralized Software** platform, hosted at the FWO HQ Data Center. PR's designated staff will have full access, enabling:

- **Live Data View:** See the last reported location of all assets on a unified map.
- **Historical Data:** Review the complete location history for any specific asset.
- **Custom Reports:** Manually generate or schedule new reports as needed.

#### 1.1.3.1 Advanced Operational & Safety Management

The Software platform will be used to enforce operational and engineering restrictions:

- **Geofencing:** Digital boundaries will be created for all critical zones (yards, stations, workshops, specific block sections). Alerts (email/SMS/platform) will be generated if an asset enters or leaves a designated zone.
- **Engineering Restrictions:** Geofences will be used to enforce engineering restrictions. For example, if a section of track has a restriction, a geofence can be created to alert operators if any high-capacity stock is routed through or enters that area.
- **Speed Limit Alerts:** While primarily for live-tracking (locomotives), the platform supports speed monitoring. If an asset's ping history indicates travel between two points at an impossible or unsafe speed (e.g., in case of theft/unauthorized movement), an alert can be triggered.

Tender No:

1. Financial offer must be as per following formats: -

<b>Ser</b>	<b>Equipment</b>	<b>Qty</b>	<b>Unit Cost incl of all types of Taxes</b>	<b>Total Cost incl of all type of Taxes</b>
a.	Supply of High Capacity Rolling Stock Tracking	6000		

**Note**

- a. Price is required to be quoted on **FOR Rawalpindi** basis, which must include delivery, installation charges, and all taxes / duties. Brochure / manufacture specifications (in original) must be attached
- b. Firm must submit their financial offer as per above mentioned schedule to tender otherwise offer will be rejected.
- c. This tender is on FOR Rwp basis and all transactions/Payment will be made in PKR. All fluctuations in foreign Exchange will be responsibility of bidder/firms.

**GOVERNMENT OF PAKISTAN**  
**HQ NATIONAL LOGISTIC CORPORATION**  
**INVITATION TO TENDER**  
**FOR INSTALLATION OF NEW WEIGH IN MOTION SYSTEM**  
**INSTRUCTION TO TENDERERS - WORDS OF CAUTION**

1. **Participation of Tender.** The tender can be participated by following: -
  - a. **OEMs (Original Equipment Manufacturers)**
  - b. **OEM Authorized Dealers / Re-Sellers having OEM Authorization Letter with sustained financial capability**
2. **Eligibility / Bid Qualification Criteria.** The bidder must prove his eligibility by completing the Bid Qualification Criteria as following.

Ser	Check List	Yes / No
a.	Tender Fee	
b.	Bid Security	
c.	Copy of NTN / STRN and Active Tax Filer with 100% compliance	
d.	Certificate to compliance to the GSR	
e.	Authorization Letter from OEM	
f.	Complete Tech Data of Equipment	
g.	90 x Days Offer Validity	
h.	Confirmation to Delivery Period	
i.	Comparison Chart (NLC Specification and Firm Offer)	
j.	Not Blacklisting Affidavit	
k.	Certificate to accept all conditions of tender	
l.	List of Major Clients	
m.	Hierarchy of the firm along with portfolio of owner & top management be attached	

3. **Special Conditions**
  - a. Bidder must provide the Authorization Letter from OEM / Authorize Dealer / Re-Seller.

- b. Quoted items / equipment should be Branded and Brand New.
  - c. Firms are only allowed to quote only 1 x variant / model of item being quoted.
  - d. Offer should also accompany complete technical data of the equipment.
  - e. Firms must provide all relevant import documents to the purchaser (If Required).
  - f. Offers must be prepared on firm's letter head, accompanied by the schedule to tender duly completed / signed / stamped by authorized executive (by name) of the firm without which the offer will not be entertained.
  - g. In case, any firm fail to supply the tendered store as per the Letter of Acceptance / contract Agreement, The NLC has the right to take punitive action against defaulter firm that include confiscation of its bid security, Performance Bank Guarantee and ban to participate in the tender etc.
4. **Rejection of Bid.** A bid will be rejected under following circumstances: -
- a. Bids not qualifying the bid evaluation criteria as mention above.
  - b. Offers not accompanied with complete technical specifications of items being offered and not supported with detailed technical brochures.
  - c. Non responsive bid to any single required criteria / specification
  - d. Non submission of Tender Fee & Bid Security
  - e. Late submission of tender from given date & time
  - f. Offers not complying with the special instructions (para 3 & 4) in addition to other conditions
5. **Bidding Procedure**
- a. Bidding will be conducted under the "Single Stage – Two Envelope" procedure.
  - b. Envelope 1: Technical Proposal (including detailed methodology, hardware datasheets, and compliance matrix).
  - c. Envelope 2: Financial Proposal (itemized costs for hardware, software, installation, and 1-year O&M).
6. **Minimum Eligibility Criteria**
- a. Proven track record in large-scale C4I (Command, Control, Communication, Computing, and Intelligence) systems.

- b. Experience in deploying nationwide digital infrastructure (e.g., AVI/AEI, WIM, and fiber optics).

7. **Evaluation Weightage**

<b>Criteria</b>	<b>Weightage</b>
<b>Technical Competence</b> (Experience, Hardware Specs, Methodology)	Experience/Projects: 30% Hardware Specs Compliance: 15% Local / Regional Support: 5% SLA: 5% Coy Certifications: 5% Device Standards (OIML R106) Compliance Certificates: 10% <b>Total: 70%</b>
<b>Financial Proposal</b>	30%

8. **Particulars and Specifications.** Standard particulars, and specifications of New Weigh in Motion System required to be procured is attached at **Annex 'A'**. The bid must conform to the asked specifications / requirement and acceptance criteria.
9. **Delivery of Tender.** The original copy of the tender is to be enclosed in double cover. (i) Technical Offer (ii) Commercial Offer, separately. The covers should be sealed and bear tender Enquiry Number and date of opening, while the outer cover should bear only address of this office without any indications.
10. **Date and Time for Submission of Tender.**
- a. Tender must reach at HQ NLC, Harding Road Near AFIRM Rawalpindi by the date and time specified in tender notice by hand or by post.
- b. Tender must be dropped in the tender box before given time.
- c. NLC will not be responsible for delay occurring in post.
11. **Pre- Bid Meeting.** Pre-bid meeting will be held at HQ NLC, Harding Road, Support Branch Conference Room on 31 Mar 2026 at 1100 hours to clarify any queries, questions and corresponding replies.
12. **Price**
- a. The firms must quote prices inclusive of all taxes, packing, delivery and installation charges at Rawalpindi etc as per format attached at **Annex "B"**

- b. The price must be quoted in **PAK RUPEE** in figures and words at the appropriate space of the schedule to tender.
  - c. Additional information, if any, must be linked with entries on the Schedule to Tender.
  - d. Prices quoted should be firm and final.
  - e. Tax exemption (if any) may be provided with the tender documents.
  - f. Firm's financial offer must be on letter head duly signed and stamped by executive authority, otherwise offer will be rejected
  - g. 0.25% of the value of contract agreement will be provided by the firms at the time of signing of contract as stamp duty.
  - h. In case of increase in tax by GOP, the additional tax will be paid by purchaser.
13. **Validity of Offers.** The validity period of quoted rates must be indicated and should be at-least 90 days from the date of opening the tender without any condition, extendable for further processing of the case, if required.
14. **Delivery Period.** Delivery must be completed within 60 x days after issuance of LOA (Letter of Acceptance) or Award of Contract (whichever is earlier) at prescribe location, beyond which Late Delivery Charges will apply.
15. **Packing.** Unless a method of packing is indicated in the specification in the schedule to tender form, the method of packing proposed by supplier must be described in schedule to the tender form. Contractors are at liberty to quote for additional alternative sizes and description of packs and these must be described in the schedule of tender. Packing should be such that item shall not damage in transit till place of delivery. **SAFE DELIVERY OF ITEMS IS SOLE RESPONSIBILITY OF FIRM.**
16. **Inspection**
- a. **Pre-Delivery Inspection**
    - (1) Pre-delivery inspection may be carried out at firm's premises before supply, by team of HQ NLC (If Required).

- (2) Inspection will include Quantity, Quality, Conformation to the agreed specification as per LOI / Contract agreement.
  - (3) Firm will dispatch the items / equipment to prescribed location as mentioned in schedule of tender.
  - (4) Inspection (If Required) should preferably be kept at Rawalpindi / Islamabad. Inspection out of Rawalpindi / Islamabad will be carried out on the expenses of firm including travelling, boarding / lodging etc.
- b. **Final Inspection.** Final Inspection will be carried out by the consignee after delivery & installation for any damages / breakages during transportation and successful functioning.
17. **Arbitration.** Any bidder feeling aggrieved by any act of procuring agency after submission of his bid and prior to award of the contract may lodge a written complaint to procurement agency under Rule - 48 PPRA.
18. **Risk and Expense.** Failure to supply the goods quoted or failure to meet the commitment made regarding delivery schedule, specifications, short supplies etc will authorize HQ NLC to purchase the items at firm's risk and cost.
19. **Force Majeure.** The supplier will not be held responsible for any delay occurring the supply of contracted stores due to event of force majeure such as Act of God, War, Riots, Civil Commotion's Strikes, lock out or disturbance directly affecting the supply over which the supplier has no control. In such an event the contractor shall inform the Purchaser within 15 days of the happening in writing. Non-availability of raw material for the manufacture of stores or the export permit for the export of the contracted stores from the country of its origin shall not constitute Force Majeure.
20. **Late Delivery.** Late Delivery charges will be imposed @ 2% per month or no of days delayed on total cost of contract with effect from original delivery date.
21. **Terms of Payment**
  - a. 100% Payment will be made after delivery and Final Inspection after installation and issuance of CRV (Certified Receipt Voucher) by the consignee.
  - b. No advance payment is allowed

22. **Tender Fee and Bid Security**. Both will be prepared in the shape of bank draft in favor of “**National Logistics Corporation HQ Main Account**” and submitted as following: -

- a. **Tender Fee**. Rs 2,000/- must be attached with Technical offer.
- b. **Bid Security**. Rs 500,000/- must be attached with Technical offer.

23. **Bank Guarantee**

- a. Performance Bank guarantee valuing 5% of the contract value must be provided / deposited by the successful firm for award of contract, within 15 days from the signing of the contract / issuance of Letter of Intent (whichever is earlier).
- b. The Guarantee should be from a schedule bank of “AA” rating and valid till one month after warranty period.
- c. Performance Bank Guarantee should be as per format provided by NLC and the currency of PBG should be same as the currency of financial offer.

24. **Warranty Period**. The **warranty period** of equipment will be **One year** starting from the date of CRV. Firm will give comprehensive warranty (duly supported by the OEM).

25. **Comparison Chart**. Firms will also attach comparison chart along with their offer on following lines: -

<b>NLC Specification</b>	<b>Firms Specification</b>	<b>Complied with or Not</b>

26. **Evaluation**: Technical offer of bidders found eligible and qualified as per “**Bid Qualification criteria**” will be evaluated as per specifications (Annex “A”). Financial offers of technically approved bidders will be opened and bidder with the lowest financial proposal will be considered most advantageous bid.

General Manger Procurement, HQ NLC

**HEADQUARTERS NATIONAL LOGISTIC CORPORATION**

**GENERAL CONDITIONS GOVERNING CONTRACT**

1. Tender will be opened at HQ NLC, Harding Road Near AFIRM Rawalpindi at Date and Time mentioned in the newspaper add.
2. Tender will be submitted in accordance with PPRA Rule 36 (b) i.e. Single Stage – Two Envelope Procedure
3. Detail of equipment required to be procured is as under :-

<b>Ser</b>	<b>Items Description</b>	<b>Quantity</b>
a.	Installation of New Weigh in Motion Systems (HSWIM & LSWIM)	5

**NL-3**

Address\_\_\_\_\_

Telephone\_\_\_\_\_

Code Used\_\_\_\_\_

From: \_\_\_\_\_

To:

**THE DIRECTOR GENERAL**

**NATIONAL LOGISTIC CORPORATION QMG's BRANCH**

**R.A. BAZAAR GHQ RAWALPINDI**

Dear Sir,

I/We hereby offer to supply to the Director General NLC, the stores as per detail in the Scheduled hereto or such portion thereof as you may specify in the contract at the prices given in the said schedule and agree to hold this offer open till \_\_\_\_\_ . I/We shall be bound by a communication of acceptance dispatched within the prescribed time.

2. I/We have understood the instructions to Tenders and Conditions of Contract as laid down in form NL-2 to "General Conditions Governing Contracts" and have thoroughly examined the specificity/drawing and or pattern quoted in the schedule hereto and am/are fully aware to the nature of the stores required and my/our offer is to supply stores strictly in accordance with the requirements.

3. Recommended technical manual/ data are also enclosed with the offer.

4. The following pages have been added to and form part of this tender:-

Your faithfully

(Signature of Tendered)

Address\_\_\_\_\_

Dated \_\_\_\_\_

Signature of witness\_\_\_\_\_

Address\_\_\_\_\_

**SPECIFICATIONS**  
**Installation of New Weigh in Motion Systems**

Weigh in motion system will be installed for new WIM locations along with automated equipment identification (AEI) system for automated operations in order to keep the manual inputs minimum.

To install a high-precision **Low-Speed Weigh-In-Motion (LS-WIM)** system. The system must provide trade-level accuracy for individual wagons and total train weight at speeds between **0.1 km/h and 15 km/h**, ensuring precise billing and safety compliance.

**1.1 Technical Specifications**

**1.1.1 Metrological Requirements**

The system must comply with **OIML R106** standards for automatic rail weighbridges.

<b>Parameter</b>	<b>Specification</b>
<b>Accuracy Class (Train)</b>	Class 0.2 ( $\pm 0.1\%$ for total train weight)
<b>Accuracy Class (Wagon)</b>	Class 0.5 ( $\pm 0.25\%$ for individual wagons)

<b>Parameter</b>	<b>Specification</b>
<b>Operational Speed</b>	0.1 km/h up to 15 km/h
<b>Maximum Axle Load</b>	30 - 40 Tons
<b>Weighing Direction</b>	Bi-directional (Push/Pull)
<b>Roll-back Detection</b>	Must support and correct for train roll-back/oscillation

## 1.2 Hardware & Infrastructure

- **Sensors:** Load cell-based (Electronic Sleepers) or High-Precision Strain Gauges.
- **Installation:** Pit-less design preferred to minimize civil works and track downtime.
- **Environment:** IP68 protection, operational from -10°C to +70°C.
- **Power:** Dual-redundant power supply with Stage 1 & 2 surge protection (EMI & Lightning protection).

## 1.3 Scope of Delivery

1. **Civil & Track Works:** Ballast stabilization and approach rail alignment (min. 150m straight approach).
2. **Hardware Installation:** Installation of weigh-rail sections or electronic sleepers.
3. **AEI Integration:** Automatic Equipment Identification (AEI) as required for automated operations.
4. **Local Control Unit:** Weatherproof cabinet with industrial PC and local operator display.
5. **Software Integration:** Real-time data push to the Central Monitoring Platform (CMP).

## 1.4 Key Performance Indicators (KPIs)

- **Zero-Stop Weighing:** 100% of wagons weighed without requiring the train to decouple or stop.
- **Tamper Proofing:** Encrypted weight logs and "Event Log" for all calibration changes.

- **Self-Diagnostics:** Automated daily system health check and sensor drift alerts.

### 1.5 Implementation Timeline

The project for LS-WIM installation is expected to follow an accelerated schedule due to its critical role in revenue collection:

<b>Phase</b>	<b>Timeline</b>	<b>Key Milestone</b>
<b>Site Selection &amp; Audit</b>	1 Weeks	Foundation/Ballast Report
<b>Hardware Procurement</b>	4 Weeks	Arrival of Load Cells/Sensors
<b>Installation &amp; Civil</b>	1 Weeks	Track Closure & System Fitment
<b>Calibration (Stated Weight)</b>	1 Week	OIML Verification
<b>Testing</b>	1 Week	OIML Verification
<b>Total Duration</b>	<b>2 Months</b>	<b>System Go-Live</b>

### 1.6 Evaluation Criteria

- **Accuracy Verification:** Evidence of OIMLR106 certification for the specific hardware.
- **Track Downtime:** Bidders proposing minimal track interruption (e.g., installation in <48 hours) will be prioritized.
- **Maintenance:** Provision of a 3-year Annual Maintenance Contract (AMC).

**Annex "B"**

Tender No:

1. Financial offer must be as per following formats: -

<b>Ser</b>	<b>Equipment</b>	<b>Qty</b>	<b>Unit Cost incl all Type of Taxes</b>	<b>Total Cost incl of Taxes</b>
a.	Installation of New Weigh in Motion Systems	5		

**Note**

- a. Price is required to be quoted on **FOR Rawalpindi** basis, which must include delivery, installation charges, and all taxes / duties. Brochure / manufacture specifications (in original) must be attached
- b. Firm must submit their financial offer as per above mentioned schedule to tender otherwise offer will be rejected.
- c. This tender is on FOR Rwp Basis and all transactions, payments will be made in PKR. All fluctuation in foreign Exchange will be responsibility of Bidder/ Firms.