

# Indian Highway Management Company Limited (IHMCL)

Invites sealed quotations for Supply of IT Equipment for  
Toll Plazas on National Highways



Quotation No. IHMCL/HES/2017-02  
Indian Highways Management Company Limited (IHMCL)  
Sector-19, Dwarka, New Delhi-110075

15-Aug-17

## Call for Quotation

IHMCL, a company promoted by NHAI, under the Companies Act, 1956, invites quotation in the sealed envelope by 15:00 hrs on 30.08.2017 physically or through post/courier at IHMCL office Sector-19, Dwarka, New Delhi-110075 from the authorized Manufacturer/Distributor for IT equipment for Toll plazas on National Highways.

2. The quotation received after the 15:00 hrs on 30.08.2017 shall be rejected.
3. The eligibility criteria of the authorized Manufacturer/ Distributer are provided in subsequent paragraphs.
4. Bidder shall be responsible for the supply of the equipment. They must give 1 year warranty of the equipment. The equipment having manufacturing defect shall be replaced with new once brought to the notice.
5. The equipment must be of industrial grade of the highest standards of the specification and workmanship. The detailed specifications are described in the subsequent paragraphs.
6. The Bill of Quantity (BOQ) marked as "BOQ" is enclosed in excel sheet as Annexure – A. The bidders are requested to fill their rates as per Annexure – B. Any tempering or modification in the locked fields of the BOQ shall lead to disqualification.
7. The Quantities given in the BOQ are approximate and may vary as per the site requirement. IHMCL has a right to increase or decrease quantity or reject the quotation without giving any justification to the bidder.

## **Document Composition**

This Documents comprises for following parts.

|          |                          |
|----------|--------------------------|
| Part-I   | Instructions to Bidders  |
| Part-II  | Technical Specifications |
| Part-III | Payment Terms            |
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## **PART-I: INSTRUCTIONS TO BIDDERS**

### **1. Bid Conditions**

#### **1.1 Eligibility to Bid**

- A. The bidder shall be one of the following:
  - i. A company registered in India involved in the Supply, Installation, Testing, Commissioning & Maintenance of Toll management systems including tag / OBU-based ETC/ Weigh In Motion and Static Weigh Bridge.
  - ii. A company of foreign origin but with an office registered in India involved in the Supply, Installation, Testing, Commissioning & Maintenance of IT Systems/ Telecommunication system / Toll management systems including tag / OBU-based ETC.
  - iii. A consortium between a company registered in India involved in the Supply, Installation, Testing, Commissioning & Maintenance of IT Systems/ Telecommunication system / Toll management systems including tag / OBU-based ETC/ solution provider of local or foreign origin. The maximum number of consortium members shall be two.
- B. The bidder shall have at least three years of experience in Supply, Installation, Testing, Commissioning & Maintenance of Toll management systems including tag / OBU-based ETC/ Weigh In Motion and Static Weigh Bridge.
- C. The bidder should have an average annual turnover of Indian **Rs. 10 crores** for the last three financial years (Note: For currencies other than Indian Rupees, the applicable conversion [selling] rate of the Reserve Bank of India on the last date of bid submission shall apply).

#### **1.2 Scope of Work**

The scope of work involves the following:

- A. Supply of IT equipment at Hybrid ETC Toll Plazas.
- B. Warranty of the above IT equipment should be for a period of 1 year after system commissioning.
- C. The equipment must be of industrial grade and shall be of the higher standards of the specification and workmanship.
- D. The successful bidder shall make his own arrangement for material storage.

#### **1.3 Issuance of Purchase order:**

- A. IHML reserves the right to give PO to the lowest bidder of the respective items. The quotation will not be accepted as a whole but PO for individual item may be given to the individual lowest bidder for that particular item.
- B. The entire supply should be completed within 45 days from the date of issuance of PO given by IHMCL or by its authorized representative.

- C. Time will be the essence of this quotation and the bidders must supply the equipment within the stipulated time. And delay in supply without any justified Reason/ Force majeure will attract Liquidated Damage from the bidder at the rate of 1% per day subject maximum up-to 10%.
- D. In case of default of the supplier the PO will be terminated.

**1.4 Submissions:** The bidder shall submit the following documents along with the Financial Bid:

- A. Non-Compliance Matrix for the Technical Specification (Part-II) of this RFQ document.  
In case of any Non-Compliance, Matrix thereof shall be submitted in the following format:

| Sr. No. | RFQ Clause & Page No. | RFQ Provision | Non-compliance (details) | Remarks with alternate solution details |
|---------|-----------------------|---------------|--------------------------|---|
|         |                       |               |                          |   |

- B. Technical Data Sheet of each Equipment proposed by the bidder: Technical details of each component shall be provided, clearly mentioning the make, model, country of origin, and end of life of each component/ equipment. Brief technical datasheet from OEM shall also be enclosed.
- C. Certification(s), Affiliation(s), Authorized Partner(s) of OEM/Other leading technology providers/ System Integrators, if any.
- D. Ratings if any, achieved by international/national agencies in the field of IT / Communications / Electronics / Networking / RFID etc., as applicable.

**Note:** IHMCL reserves the right to reject any bid which is non-responsive and no request for alteration, modification, substitution, or withdrawal shall be entertained by IHMCL in respect of such bids.

**1.5 Bill of Quantities:** Please refer Annexure-A

## **List of Acronyms**

- |     |       |   |
|-----|-------|---|
| (1) | WIM   | Weigh In Motion                           |
| (2) | IHMCL | Indian Highway Management Company Limited |
| (3) | SWB   | Static Weigh Bridge                       |
| (4) | MS    | Medium Speed                              |
| (5) | NHAI  | National Highway Authority of India       |

## Part-II: Equipment Specifications

### 1. Toll Lane Equipment

The lane equipment shall be understood to be the equipment installed in the lanes at the Plazas. Following lane Equipment shall be supplied under the scope of this document:

- (1) 8-Port PoE Industrial grade rugged Switch with 2 Fibre Port
- (2) Medium Speed Weigh In Motion
- (3) Static Weigh Bridge

### 2. Technical Specification for Toll Lane Equipment

The technical specifications mentioned hereunder are minimum guidelines. The bidder shall not deviate materially from the minimum specifications specified.

#### 2.1 8-Port PoE Industrial grade rugged Switch with 2 Fibre Port

##### 2.2.1 Function Requirement

This device shall have the capability to provide adequate continuous power to each of the CCTV cameras and associated equipment (e.g. video analytics module, PTZ mechanism) to meet the required performance, quality and reliability requirements.

##### 2.2.2 Technical Requirement

- a. Switch shall have minimum 8 nos. 10/100Base-T (with minimum 6 PoE ports with power budget of 60W) ports and additional 2 numbers of SFP uplink ports loaded with MMF Modules.
- b. Shall have be IP30 rated and shall work on up to 60°C temp in a sealed enclosure and should be DIN Rail mountable.
- c. Switch shall be IEC 60068-2-6, IEC 60068-2-27, IEC 60068-2-47, IEC 60068-2-64, IEC 61000-4-5 and NEMA TS-2 compliant.

#### 2.3 Medium Speed Weigh In Motion

##### 2.3.1 Technical Specifications of Medium Speed WIM

| Sr. | Parameters                        | Particulars  |
|-----|-----------------------------------|--|
| 1   | Capacity of the Platform          | 30 Ton/Axle  |
| 2   | Stationary Accuracy               | ±0.1% FSR  |
| 3   | In Motion Accuracy                | ±7% FSR up to speed 50 Km/h; and   |
| 4   | Overload capacity of the platform | 150% of rated capacity   |
| 5   | Vehicle separator                 | IR Based curtain housed in Weather Proof, IP65 Rated pillars with proper sealing           |
| 6   | Controller Housing                | Water/ weather proof with anti-rust coating; IP65 rated                                    |
| 7   | Approval/ Certification           | Weights & Measures Approved Model, Duly stamped & sealed by W&M Department on Installation |



|   |   |  |
|---|---|--|
| 8 | Re-calibration/ Stamping & Verification   | Every 12 (Twelve) months               |
| 9 | Downtime allowed for Periodic Maintenance | Maximum 24 (Twenty Four) hour/ Quarter |

## 2.4 Static Weigh Bridge (SWB)

### 2.4.1 Technical Specifications

Minimum Technical Specification for SWB are as under:

| Sr. | Parameters                                  | Particulars   |
|-----|---|---|
| 1   | Type  | Site specific ( Pit/Pit less/Mobile)  |
| 2   | Body/Platform                               | Steel   |
| 3   | Size  | 18 meter x 3 meter  |
| 4   | Capacity                                    | 120 Tonnes  |
| 5   | Structure                                   | I-Beam complying BIS 2062. Top Plate - 10 mm or more –Steel as per BIS 2062   |
| 6   | Structure                                   | Duly certified for Structural Analysis and Design (STAAD)-III   |
| 7   | Number of load cells                        | 8   |
| 8   | Type of load cells                          | Compression Type/Double Ended Shear Beam – Stainless Steel 17-4 Ph  |
| 9   | Protection Class for the Load Cells         | IP 68 or better, Operational Temp: -10 to 65 Degrees  |
| 10  | Protection Class for the Weighing Indicator | IP 65 or better, Operational Temp: -10 to 65 Degrees  |
| 11  | Overload capacity                           | 150% of rated capacity  |
| 12  | Accuracy Class                              | OIML - C-IV   |
| 13  | Accuracy Tolerance                          | Up to 0.02%   |
| 14  | Painting                                    | Anti-rust & anti-corrosion painting   |
| 15  | BIS Specification                           | IS-9281(Part-III)   |
| 16  | Compliant                                   | Legal Metrology Act 2009 (1 of 2010) & Rules framed thereunder from time to time - Duly sealed by the Weights & Measures Department |
| 17  | Approval/ Certification                     | Weights & Measures Department Approved Model  |

**Part – III Payment terms**

1. Supply, installation, System Integration, Testing & Commissioning
  - A. 40 % of the system value against supply of all equipment.
  - B. 40 % after successful installation and integration with ETC system.
  - C. 20% on successful system testing and commissioning.

### **Disclaimer**

The information contained in this document or subsequently provided to Bidder(s), whether verbally or in documentary or any other form by or on behalf of IHMCL or any of its employees or advisors, is provided to Bidder(s) on the terms and conditions set out in this document and such other terms and conditions subject to which such information is provided.

This document is not an agreement and is neither an offer nor invitation by IHMCL to the prospective Bidders or any other person. The purpose of this document is to provide interested parties with information that may be useful to them in making their technical/ financial offers (“Bid(s)”) pursuant to this document. This document includes statements, which reflect various assumptions and assessments arrived at by IHMCL in relation to the Project. Such assumptions, assessments, and statements do not purport to contain all the information that each Bidder may require. This document may not be appropriate for all persons, and it is not possible for IHMCL, its employees or advisors to consider the investment objectives, financial situation, and particular needs of each party who reads or uses this document. The assumptions, assessments, statements and information contained in this document, may not be complete, accurate, adequate or correct. Each Bidder should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability, and completeness of the assumptions, assessments, statements, and information contained in this document and obtain independent advice from appropriate sources.

Information provided in this document to the Bidder(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. IHMCL accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

IHMCL, its employees and advisors make no representation or warranty and shall have no liability to any person, including any applicant or Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this document or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the document and any assessment, assumption, statement or information contained therein or deemed to form part of this document or arising in any way for participation in this Bid.

IHMCL also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Bidder upon the statements contained in this document. IHMCL may in its absolute discretion, but without being under any obligation to do so, update, amend, or supplement the information, assessment or assumptions contained in this document.

The issue of this document does not imply that IHMCL is bound to select a Bidder or to appoint the Successful Bidder for the Project and IHMCL reserves the right to reject all or any of the Bidders or Bids without assigning any reason whatsoever.

The Bidder shall bear all their costs associated with or relating to the preparation and submission of their Bid including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by IHMCL or any other costs incurred in connection with or relating to Bid. All such costs and expenses will remain with the Bidder and IHMCL shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder in preparation or submission of the Bid, regardless of the conduct or outcome of the bidding process.

**Annexure- A**

| <b>BOQ (Bill of Quantity)</b>                      |   |             |                          |
|--|---|-------------|--------------------------|
| <b>Sr. No.</b>                                     | <b>Item/Description</b>                                     | <b>Unit</b> | <b>Quantity required</b> |
| <b>I - Lane Level Equipment - Hybrid ETC Lanes</b> |   |             |                          |
| 1  | 8-Port PoE Industrial grade rugged Switch with 2 Fibre Port | No          | 2500                     |
| 2  | Medium Speed WIM  | No          | 2500                     |
| 3  | Static Weigh Bridge   | No          | 478                      |

**Annexure-B Format for Financial Bid Submission**

*(For sample only, actual Format to be downloaded from e-tender portal for on-line submission)*

**Sub.: Quotations for supply of IT Equipment for Toll Plazas on National Highways**

**Ref: IHMCL/HES/2017-01 dated 03/7/2017 on above subject.**

Dear Sir,

I/We, the undersigned having examined the above referred RFQ including addendums thereof and, hereby offer to submit our bid to undertake the subject assignment with total bid value as per milestone and break-up furnished below.

**BREAK-UP OF RATES**

| <b>Sr. No.</b>         | <b>Item/Description</b>                                     | <b>Unit</b> | <b>Qty. req.</b> | <b>Unit Rate (INR)</b> | <b>Amount (INR)</b> |
|------------------------|---|-------------|------------------|------------------------|---------------------|
| 1                      | 8-Port PoE Industrial grade rugged Switch with 2 Fibre Port | No          | 2500             |                        |                     |
| 2                      | Medium Speed WIM with accessories                           | No          | 2500             |                        |                     |
| 3                      | Static Weigh Bridge with accessories                        | No          | 478              |                        |                     |
| <b>Total Bid Price</b> |   |             |                  |                        |                     |

1. I/We do hereby confirm that my/ our bid price include all statutory taxes/ levies /GST (as applicable). I/ We also declare that any tax, surcharge on tax and / or any other levies, if altered in future and payable under the law, the same shall be borne by me/ us.
2. This bid is **valid** for a period of **120 calendar days** from the bid due date.
3. I/ We, understand that the
  - (a) Applicable GST shall be released by IHMCL at the time of releasing the payment.
  - (b) TDS will be deducted against payments as per Applicable Law.
  - (c) In case of any difference in figures and words, the amount mentioned in words will prevail.

Yours sincerely,

Name .....

Designation/ Title of the Authorized Signatory.....