

**Indian Highways Management Company Ltd. (IHMCL)**  
Invites Expressions of Interest (EOI) from OEMs for providing  
**“Functional and Technical specifications of Medium Speed Weigh in Motion (MSWIM) and Latest technology of Medium Speed Weigh in Motion (MSWIM)”**

NHAI jointly with its Concessionaires and Financial Institutions incorporated Indian Highways Management Company Limited (IHMCL) on 26.12.2012 under the Companies Act, 1956 to carry out Electronic Tolling and other ancillary projects of NHAI. Indian Highways Management Company Limited (IHMCL) was incorporated on 26.12.2012 under the Companies Act, 1956 to carry out Electronic Tolling and other allied works by NHAI jointly with its Concessionaires and Financial Institutions.

The Government of India has mandated implementation of Electronic Toll Collection at all the toll plazas on National Highways in the country to reduce traffic congestions, encourage digital payment and ensure transparency in toll fee transactions. The existing ETC system and infrastructure of dedicated ETC lanes with an ejection lane mechanism is inadequate and accordingly, the Ministry of Road Transport & Highways had instructed for installation of Hybrid ETC System in every lane of all the toll plazas on the National Highways and directed IHMCL/NHAI to implement it at the earliest.

The toll fee rule as amended vide Gazette Notification no. G.S.R 778(E) dated 16.12.2013 stipulates that, any mechanical vehicle which is loaded in excess of permissible load for its category shall not be permitted to use National Highways or cross the plaza until the excess load has been removed from such vehicle. The driver or owner or a person in charge of such vehicle shall be liable to pay fee, for entering the overloaded vehicle on National Highways to the toll collecting agency, equal to 10 times the fee applicable to identified category of vehicle. Accordingly MoRTH had directed that Weigh in Motion and Static Weigh Bridge shall also be installed on both Public Funded and PPP toll plazas.

MoRTH had mandated installation and integration of Medium Speed Weigh in Motion on all toll lanes as load carrying vehicles will be passing through the Hybrid ETC lanes without stopping.

Following broad specifications have been defined by IHMCL :-

**Medium Speed Weigh in Motion (MSWIM)**

Functional Requirements :

- a. The MSWIM system shall be able to capture number of axles, axle spacing, number of wheels, gross weight of vehicle and height of each passing vehicle and provide data of each vehicle to the lane controller for further auditing and analysis.
- b. The Gross Vehicle Weight of vehicles approaching the toll booth shall be automatically detected for speed range prescribed in the specifications.
- c. This detected weight shall not be displayed on the computer terminal of toll collector until the toll collector classifies the vehicle.

- d. If the vehicle is found to be overloaded based on Toll Collector Classification, the Weight information shall be displayed as “Overweight Warning” and appropriate toll receipts with 10 times the fare, shall be generated automatically.
- e. The excess fee charged against such overloaded vehicles shall also be separately printed on toll fee receipts of such vehicles.
- f. MIS reports shall be available for IHMCL, on numbers of overloaded vehicles crossing any toll plaza as per mutually decided format.

**Technical Specifications :**

Capacity of the Platform	30 Ton/Axle
Operating Speed range (Min-Max)	1 Km/hr – 50 Km/hr
Accuracy	Accuracy of Class 5 as per Gazette Notification S. No. 637 Part II – Section 3 sub-section (i) (Page no. 89-90) issued by Ministry of Consumer Affairs, Food and Public Distribution dated 09.09.2016
Overload capacity of the platform	150% of rated capacity
Vehicle separator	IR Based curtain housed in Weather Proof, IP65 Rated pillars with proper sealing
Controller Housing	Water/ weather proof with anti-rust coating; IP65 rated
Approval/ Certification	Weights & Measures Approved Model, Duly stamped & sealed by W&M Department on Installation
Re-calibration/ Stamping & Verification	Every 12 (Twelve) months
Downtime allowed for Periodic Maintenance	Maximum 24 (Twenty Four) hour/ Quarter

**AND / OR**

Capacity of the Platform	30 Ton/Axle
Operating Speed range (Min-Max)	1 Km/hr – 50 Km/hr
Accuracy	Accuracy of Class 10 as per Gazette Notification S. No. 637 Part II – Section 3 sub-section (i) (Page no. 89-90) issued by Ministry of Consumer Affairs, Food and Public Distribution dated 09.09.2016
Overload capacity of the platform	150% of rated capacity
Vehicle separator	IR Based curtain housed in Weather Proof, IP65 Rated pillars with proper sealing
Controller Housing	Water/ weather proof with anti-rust coating; IP65 rated
Approval/ Certification	Weights & Measures Approved Model, Duly stamped & sealed by W&M Department on Installation
Re-calibration/ Stamping & Verification	Every 12 (Twelve) months
Downtime allowed for Periodic Maintenance	Maximum 24 (Twenty Four) hour/ Quarter

Expression of Interest (EOI) are invited from all the OEMs under the sealed envelopes comprising of the following relevant documents certifying the **functional and Technical specifications of Medium Speed Weigh in Motion (MSWIM) and latest technology of Medium Speed Weigh in Motion (MSWIM)** as defined by IHMCL:

- a. Relevant Certificates of approved model with all technical and functional specifications of MSWIM
- b. Certificate of Company's Incorporation

Please note that the sealed envelopes shall not give any indication of the financials of the MSWIM.

Last date / time for receipt of EOI -25.09.2017, by 03:00 pm

The agencies are requested to make a presentation & send it on below mentioned email id & address:-

Address for communication and EOI submission:

Indian Highways Management Co. Ltd. 2nd  
Floor, MTNL Building,  
Sector-19, Dwarka, New Delhi -110 075  
Email: [info@ihmcl.com](mailto:info@ihmcl.com)

For any query & clarifications please contact - +91-11-28042710