



# Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT/ MATERIALS MANAGEMENT

An ISO 9001  
Company

<b>ENQUIRY</b>	Phone: +91 431 257 76 53 Fax : +91 431 252 00 31 Email : <a href="mailto:skaruna@bheltry.co.in">skaruna@bheltry.co.in</a> Web : <a href="http://www.bhel.com">www.bhel.com</a>
<b>NOTICE INVITING TENDER</b>	

<b>TWO PART BID</b> Tender to be submitted in two parts.	<b>Enquiry Number:</b> <b>2851300045</b>	<b>Enquiry Date:</b> <b>27.12.2013</b>	<b>Due date for submission of quotation:</b> <b>30.01.2014</b>
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You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order.

Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs on the Date of tender opening.

Item	Description	Quantity
10	<b>Electronic Road Trailer Weigh Bridge – 60 Metric Tons Capacity</b>	<b>01 No.</b>

as per the technical specification, general guidelines instructions & commercial conditions applicable (to be downloaded from web site [www.bhel.com](http://www.bhel.com) or <http://tenders.gov.in>)

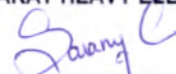
### Important points to be taken care during submission of offer

1. The rate of EMD for this Tender will be (INR) – 60,000/-.
2. The Compliance Form for Commercial Terms & Conditions to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
3. All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media.

BHEL's General guidelines / instructions (refer MM/CE/GENL/001-EMD) including bank guarantee formats and list of consortium banks, commercial terms check-list can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under Enquiry reference "2851300045".

Tenders should reach us before 14:00 hours on the due date.  
Tenders will be opened at 14:30 hours on the due date.  
Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present

Yours faithfully,  
For BHARAT HEAVY ELECTRICALS LIMITED

  
Engineer / MM / Capital Equipment

## **Electronic Road-Trailer Weigh Bridge (60 metric ton capacity)**

### **Part A**

#### **SECTION – I: Qualifying Criteria**

The BIDDER has to compulsorily meet the Qualifying criteria indicated in SECTION –I to get qualified. Otherwise the technical offer will not be considered.

<b>S. No.</b>	<b>REQUIREMENTS</b>	<b>VENDOR'S RESPONSE</b>
1.0	Only BIDDER /VENDOR (OEM) who have a minimum of last TEN Years (as on date of opening of tender) of Continuous Experience in Design, Manufacture & Supply of "Electronic Road Trailer Weigh Bridge" are eligible to quote for this tender. Vendor shall indicate the actual no. of years of experience in the field.	
2.0	Only those vendors (OEMs) should quote, who have commissioned in the last FIVE years, at least ONE "Electronic Road Trailer Weigh Bridge of Capacity 60 metric tons or ABOVE" The name and contact addresses of the customers to whom the machines have been supplied has to be furnished with details.	
3.0	Number of "Electronic Road Trailer Weigh Bridge" supplied & commissioned till date.	
4.0	Vendor to submit at least ONE Performance certificate for the quoted equipment (against the tender) supplied in the last FIVE years, for its satisfactory performance for a minimum period of one year from the date of commissioning (as on original date of opening of tender) from any of their customers. A suggestive format of the performance certificate is given on Page 3. Full contact details of the customer from whom the performance certificates are obtained are to be provided.	
5.0	BHEL reserves the right to verify the information provided by vendor. In case, it is found to be false/ incorrect, the offer shall be rejected.	

**SECTION – II:**

The BIDDER / VENDOR is requested to provide the following information:

<b>S. No.</b>	<b>REQUIREMENTS</b>	<b>VENDOR'S RESPONSE</b>
6.0	Details on National/International codes and Standards followed in Design, manufacture and Testing of Electronic Road Trailer Weigh Bridge.	
7.0	The BIDDER shall give details about supply of similar Electronic Road Trailer Weigh Bridge to BHEL units if any with Make, Model and Year of Supply & Commissioning etc.	
8.0	Details on Service-After-Sales Set-Up in India (Address of Agents / Service Centres), to be furnished compulsorily.	
9.0	A complete reference list of Customers shall be furnished to whom such offered equipment has been supplied in the last ten years with PO details, Qty., Year of commissioning with contact details of the customers.	
10.0	Any Additional Data to supplement the manufacturing capability of the BIDDER.	

**SECTION III:**

The BIDDER to note:

<b>S. No.</b>	<b>REQUIREMENTS</b>	<b>VENDOR'S COMPLIANCE</b>
11.0	The BIDDER shall submit the offer in TWO PARTS - 1. Technical [with <b>Part A &amp; Part B</b> ] & 2. Commercial and Price Bid.	
12.0	The VENDOR'S RESPONSE against each clause in PART A & B of the offer should be filled by the BIDDER compulsorily with complete details.	
13.0	The BIDDER shall assure a continuous support for Spares and Service for Seven Years, from the date of commissioning of the equipment at BHEL Works.	
14.0	The Technical Offer shall be supported by Product Catalogue in ORIGINAL and complete technical details of "Load Cells", "Digital Indicator System" proposed to be built into the offered weigh bridges.	
15.0	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid, for confirmation.	

The performance certificate should be produced **on Customer's Letter Head.**

***Suggestive Format of Performance Certificate***

*(On Customer's letter head)*

**PERFORMANCE CERTIFICATE**

1. Supplier of the Equipment :
2. Make & Model of the Equipment :
3. Month & Year of Commissioning :
4. Quantity :
5. Type of Materials Weighed :
6. Machine Details
  - a) Equipment Serial Number
  - b) Type of equipment (pit/pitless) :
  - c) Minimum Weighing Capacity :
  - d) Maximum Weighing Capacity :
  - e) Platform size (L×W) :
  - f) Accuracy of Weighing :
  - g) Average Number of Weighings per day :
  - h) Type of Load-Cell used (Compression/Tension) :
7. Performance of the Machine : Satisfactory / Good / Average / Not Satisfactory  
(Strike off whichever is not applicable)
8. After sales service : Satisfactory / Good / Average / Not Satisfactory  
(Strike off whichever is not applicable)
9. Any Other Remarks :

Date:

Signature & Seal of the Authority  
Issuing the Performance Certificate

## Electronic Road-Trailer Weigh Bridge (60 metric ton capacity)

### Part B - Technical Specification

S. No.	PARTICULARS & BHEL SPECIFICATION	VENDOR'S OFFER [With Technical Details]
<b>1.0</b>	<b>PURPOSE:</b> The weigh bridge is intended for weighing Mini-Lorries, Pick-Up Vans, Battery powered Platform Trucks / Trans-loaders, Trolleys with Rubberized Wheels carrying Metal Scrap & Industrial Shop floor Materials, etc. with or with-out load.	
<b>2.0</b>	<b>CONFIGURATION</b>	
2.1	Construction	Pit-Less Type
2.2	Weighing Capacity	60 metric ton (60,000 kg)
2.3	Platform Size (minimum)	18 m x 3 m
2.4	Platform height from ground level	Bidder to Specify
2.5	Ramp inclination ratio	Bidder to Specify
2.6	Mechanism / Principle	Electronic with Load Cells
2.7	No. of Load Cells	Minimum 8 Nos. Bidder to Specify
2.8	Weight Indication	Digital Indication System
<b>3.0</b>	<b>BASIC DESIGN &amp; CONSTRUCTIONAL FEATURES</b>	
3.1	The basic design shall be suitable for electronic measuring system using load cells and digital indication system.	
3.2	The measuring accuracy shall be as per Class-III Accuracy and abided by Indian Weights & Measures Act.	
3.3	The weigh-bridge shall be of free motion strut mounted type construction.	
3.4	For a better and balanced weighing, the load cell should be suitably arranged for supporting the platform. Vendor to confirm and give details.	
3.5	The platform structure shall be fabricated type with welded rolled steel sections and plates of reputed make like SAIL, JINDAL, TISCO, etc. Bidder has to submit the details on the platform construction with outline drawings and material used, along with the offer. Thickness of Plate used for the platform to be specified.	
3.6	The fabricated platform structures are to be shot blasted prior to painting and finished with primer and epoxy coating of required Dry Film Thickness (DFT). Bidder to give details on paints applied and DFT.	
3.7	The platform plates are to be provided with “anti-skid ribbing” or made of checkered plates.	
3.8	Bolt-on type side railing with brackets are to be provided for the platform.	
3.9	Stoppers or bumpers are to be provided in longitudinal and transverse directions.	

S.No.	DESCRIPTION / PARTICULARS		VENDOR'S OFFER [With Technical Details]
3.10	The design of the weigh bridge shall be such that all the load cells can be accessed easily during maintenance/ breakdown.		
3.11	The weigh bridge indicator cum display system shall be compatible with a PC, for taking print-outs, data entry to hard disk of the PC and giving connectivity to external IT network system through suitable and reliable communication cables and ports.		
<b>4.0</b>	<b>LOAD CELL DETAILS</b>		
4.1	Rated Capacity of each Load Cell (metric ton)	Bidder to Specify	
4.2	Type of Load cell	Compression type Bidder to specify and give complete details	
4.3	Load cell technology	Analog / Digital Bidder to Specify and give complete details	
4.4	Make & Model no.	Bidder to Specify	
4.5	Accuracy Level	In the order of 0.02% Bidder to Specify	
4.6	Electrical Input Supply [Minimum & Maximum]	Bidder to Specify	
4.7	External Communication	Bidder to Specify	
4.8	Output Resolution	Bidder to Specify	
4.9	Output Update Rate	In the order of 10 readings per second. Bidder to specify	
4.10	Repeatability	Bidder to Specify	
4.11	Overload Rating (Safe)	Not less than 125% of rated capacity. Bidder to Specify	
4.12	Overload Rating (Ultimate)	Not less than 250% of rated capacity. Bidder to Specify	
4.13	Sensitivity in mV/V	2.0 ± 0.1%	
4.14	Operating Temperature Range	10°C to 50°C	
4.15	Temperature Effect on Sensitivity	Bidder to Specify	
4.16	Temperature Effect on Zero Balance	Bidder to Specify	
4.17	Protection Class	IP 67/IP 68	
4.18	Citation (For Test Certificate)	OIML R60	
4.19	Creep in 30 min.	Bidder to Specify	
4.20	Shall be unaffected by 'off-centre' loads		
4.21	Canister design to be strong enough to withstand wear, tear and accidental damage due to harsh usage		
4.22	Shall be hermetically sealed.		
4.23	Shall be provided with automatic diagnostics		

S.No.	DESCRIPTION / PARTICULARS		VENDOR'S OFFER [With Technical Details]
4.24	Shall withstand hostile conditions due to extreme temperatures, lightning, wind, shock and vibration		
4.25	Shall be provided with over-load protection		
4.26	Shall be provided with 'low-torque' anti-rotation load button		
4.27	Shall be provided with water-proof connectors		
4.28	Test Certificate for Load Cell's Accuracy Test conducted from reputed laboratory is required		
<b>5.0</b>	<b>DIGITAL INDICATION SYSTEM</b>		
5.1	Make & Model no.	Bidder to Specify	
5.2	Processor	Micro-Processor based [Bidder to specify make and model]	
5.3	Processor Clock	Bidder to specify	
5.4	Real Time Clock	On Board Battery Backed	
5.5	Memory	For data storage, capable of storing around 1500 weighment records with battery back-up. Bidder to specify the memory storage capacity.	
5.6	Power Supply	Switched Mode Power Supply	
5.7	Input Voltage	230 V AC, 50 Hz	
<b>5.8</b>	<b>Protection</b>		
5.8.1	Fuse of suitable rating for Input AC Mains.	Bidder to specify	
5.8.2	Input Line Filter for EMI and RFI Suppressions.	Bidder to confirm	
5.8.3	Spike Suppressors for input transits.	Bidder to confirm	
5.8.4	High voltage protectors.	Bidder to confirm	
5.8.5	Degree of Resistance to dirt and moisture.	Vendor to specify the IP (Ingress Protection) number	
5.8.6	Splash proof keypad	Bidder to specify	
5.9	Power Consumption (Watts)	Bidder to specify	
5.10	A/D Conversion	Bidder to furnish details	
5.11	Load-Cell Excitation	Bidder to furnish details	
5.12	Repeatability	± 0.01% of Full Scale	
5.13	Display	A suitable Illuminated Display (with Backlight) for displaying numerals as well as alphabets, at any time.	
5.14	Remote Display	Remote Display port to connect to red LED seven segment display to indicate weight on the platform	

<b>S.No.</b>	<b>DESCRIPTION / PARTICULARS</b>		<b>VENDOR'S OFFER [With Technical Details]</b>
5.15	Reading Capacity of Display unit	Minimum 80 metric ton (i.e. 20 metric ton above the rated capacity of the weigh bridge ) Vendor to specify	
5.16	Features	<ul style="list-style-type: none"> <li>• Configurable Decimal points</li> <li>• Flicker free display of weight</li> <li>• Configurable Zero tracking</li> <li>• Over &amp; Under Range Indication</li> <li>• Character height (mm)</li> <li>• Number of digits</li> </ul> Vendor to specify	
5.17	Printer Port	Compatible for connecting dot matrix / laser printer for printing of weighment records and reports	
5.18	Serial Port / Ethernet	RS-232 Serial Port for computer interfacing or driving remote display and provision of Ethernet to Net Connectivity. Bidder to specify	
<b>6.0</b>	<b>Computer and Printer:</b> Computer installed with Operating System, keyboard, mouse and Printer will be arranged by BHEL. Vendor to specify the configuration details like OS version, Size of RAM and Hard disk, type of printer required etc.		
<b>7.0</b>	<b>WEIGHBRIDGE SOFTWARE</b>		
7.1	The OFFER shall also include the SOFTWARE required to integrate the functions of the Hardware with the Operations of the Weigh-Bridge offered. Bidder to specify the software capability to interface with SAP or other software at BHEL. <b>NOTE: Bidder to list down the technical features / functions of the SOFTWARE in detail</b>		
7.2	Software for SMART CALIBRATION (minor weigh correction by software) shall be provided by the vendor. In addition to Software for pre-start data entry for loading details, date & time, location, etc. Bidder to specify.		

S.No.	DESCRIPTION / PARTICULARS		VENDOR's OFFER [With Technical Details]
8.0	<p><b>PRINT-OUT FIELD:</b> The print out slip should contain the following details:</p> <ul style="list-style-type: none"> <li>a) BHEL Logo</li> <li>b) Ticket number and Date - auto generated.</li> <li>c) Vehicle Registration Number - up to 25 space alphanumeric and special characters.</li> <li>d) Tare Weight, Net Weight, Gross Weight - in kg,</li> <li>e) Date (DD/MM/YYYY) &amp; Time (hh:mm:ss – 24 hour format) of each Weighment.</li> <li>f) Item Particulars / Description - minimum 32 characters comprising of space, alpha-numeric and special characters mode.</li> <li>g) Address of Transporter with Phone Number - 50 characters.</li> <li>h) Invoice number (manually entered) - comprising of alphanumeric, space and special characters.</li> <li>i) Stores Dept. Code Number, Designation of persons for Weighing and Authority, etc. in a PRINTABLE FORMAT</li> </ul> <p>To be discussed in detail at the time of order finalization.</p>		
8.1	Report generation	Date wise, Vehicle wise, sorting data based on print out fields. Bidder to specify	
9.0	<b>Hardware</b>	The Bidder has to list down the Hardware required to be supplied to assure the specified functions from the weigh-bridge offered.	
10.0	<b>Additional Features</b>	Bidder to list down the list of additional features available in the OFFERED Weight Bridge & Control Unit.	
11.0	<b>LIGHTING SYSTEM</b> - A spot light with sufficiently long cable shall also be provided for 24 V AC supply.		
12.0	<b>UN-INTERRUPTED POWER SUPPLY UNIT (UPS)</b>		
12.1	UPS of suitable rating with maintenance free dry batteries shall be provided for operations lasting over three continuous hours.		
12.2	Make. : APC / MICROTEK / AMARON or any other reputed make acceptable to BHEL		
12.3	Model & Rating (kVA): Bidder to specify		
12.5	Catalogue of the UPS and battery shall be submitted with the Technical Offer.		
12.4	Spares Package for the UPS for 2 years working also shall be offered.		

<b>S.No.</b>	<b>DESCRIPTION / PARTICULARS</b>	<b>VENDOR'S OFFER [With Technical Details]</b>
<b>13.0</b>	<b>IMPORTANT POINTS</b>	
13.1	<p>Single Phase AC (3 wire system) 230V ± 10%, 50 Hz ± 1.5 Hz,                      Power Supply Source will be provided by BHEL at a single point near the weighing machine, as per the layout recommended by Vendor.                      All types of cables, connections, circuit breakers etc. required for connecting BHEL's power supply point to different parts of the machine/control cabinets, shall be the responsibility of vendor.</p>	
13.2	All electrical equipment shall be tropicalized and shall have IP 54 degree of protection	
13.3	All electrical control cabinets & panels should be dust and vermin proof	
13.4	Vendor should ensure the proper Earthing for the machine and its accessories. Bidder has to ensure the works relating to the running of earth flat from all the load cells used, and connecting to the common earth pit provided for the subject weigh bridge. This complete work is under the scope of the Bidder.	
<b>14.0</b>	<b>ENVIRONMENTAL PERFORMANCE OF THE MACHINE</b>	
14.1	The machine shall be suitable for an ambient temperature of around 50°C and relative humidity of 95 % respectively, but both do not occur simultaneously.	
14.2	Weather conditions are tropical, Atmosphere may be dust laden during some part of the year.	
14.3	Paint of the machine shall be weather resistant and shall not peel off due to weathering.	
14.4	Vendor to ensure that the Thermal Stability of the complete machine to be designed keeping in view the specified Ambient Conditions and accuracy requirements of BHEL for trouble free operation of the weighing machine.	
14.5	If any safety / environmental protection enclosure is required it shall be built in the weighing machine by the vendor.	
<b>15.0</b>	<b>MACHINE SPARES</b>	
15.1	<p>Load Cell – 2 nos.                      Digital Indicating System – 1 set.                      Remote Display Unit – 1 No.                      Itemized break-up of mechanical and electrical spares used on the machine in sufficient quantity as per recommendation of Vendor for 2 years of trouble free operation on three shifts continuous running basis should be offered by vendor.                      Unit Price of each item of spare shall be offered.</p>	
15.2	Electrical: All types of Relays/Contactors/Push Buttons, Indicating Lamps/Fuses, and PCBs shall be quoted.	

<b>S.No.</b>	<b>DESCRIPTION / PARTICULARS</b>	<b>VENDOR's OFFER [With Technical Details]</b>
15.3	All types of spares for total machine and accessories should be available for at least ten years after supply of the weighing machine.	
<b>16.0</b>	<b>DOCUMENTATION:</b> THREE sets of following documents (Hard Copies) in English language shall be supplied along with machine	
16.1	Operating Manuals of Weighing Machine and Indicator System	
16.2	Programming Manuals for the Weighing Machine	
16.3	Detailed Maintenance Manual (for troubleshooting and service) of machine with all drawings of machine assemblies/sub-assemblies/parts including Electrical / Mechanical and Instrumentation circuit diagrams. Technical Manual & Data sheet for Load cell, Indicating system and other components	
16.4	Complete back-up of hard disk / software on GHOST CD and clear written Instructions (3 copies) to take back-up and reloading of a new hard disk.	
16.6	One additional set of all the above documentation on CD ROM, wherever possible.	
<b>17.0</b>	<b>MACHINE FOUNDATION</b> Vendor shall submit the preliminary layout drawing for getting BHEL's approval within FOUR WEEKS from the date of issue of BHEL Purchase Order. Vendor shall submit complete foundation details including static and dynamic loads within a month after getting BHEL's approval. The layout should consist of all requirements pertaining to complete weighing machine including <b>control room</b> .	
<b>18.0</b>	<b>INSPECTION &amp; MACHINE ACCEPTANCE</b>	
<b>18.1</b>	<b>Pre-dispatch inspection</b> - Machine shall be offered for inspection by BHEL engineers at vendor's works. Vendor to confirm Vendor to give details on MACHINE INSPECTION Tests to be performed by Vendor at Vendor's works, on the machine, before dispatch.	
18.1.1	Full load test to demonstrate the maximum capacity of the weighing machine. (If possible)	
18.1.2	Demonstration of all features of the weighing machine, indicator system & accessories	
18.1.3	Travel, board & lodging for the BHEL Engineers who will be visiting vendor's works for pre-dispatch inspection, shall be borne by BHEL. Vendor to note	
<b>18.2</b>	Tests / Activities to be carried out by Vendor at BHEL works while commissioning the machine:	
18.2.1	Accuracy, Repeatability, Safe Over-Load Testing, Communication Connectivity and tests recommended by the Vendor	

<b>S.No.</b>	<b>DESCRIPTION / PARTICULARS</b>	<b>VENDOR's OFFER [With Technical Details]</b>
18.2.2	Full load test to demonstrate the maximum capacity of the weighing machine (if possible).	
18.2.3	Demonstration of all features of the weighing machine, indicator system & accessories to the satisfaction of BHEL for effective use of the machine	
<b>19.0</b>	<b>MACHINE ERECTION &amp; COMMISSIONING</b>	
19.1	Vendor to take full responsibility for complete works relating to the erection and commissioning of the subject weigh-bridge. Service requirements like crane, lifting tackles, skilled manpower, etc. shall be mobilized by the Bidder. Integration of the entire system - weigh bridge with PC peripherals and other components shall be completely the responsibility of vendor.	
19.2	Tools, Tackles, Test Mandrels, instruments and other necessary equipment required for erection & commissioning should be brought by the Vendor.	
19.3	All wiring, connecting cables, connectors and necessary hardware to be provided by the vendor.	
19.4	Commissioning spares, required for commissioning of the machine within stipulated time, shall be brought by the Vendor on returnable basis.	
19.5	Portion, if any, of the machine, accessories and other supplied items where paint has rubbed off or peeled during transit or erection should be repainted and merged with the original surrounding paint by the vendor. For this purpose, the Vendor should supply sufficient quantity of touch-up paint of various colours of paint used.	
19.6	Schedule of Erection and Commissioning shall be submitted with the offer.	
19.7	Charges, duration, terms & conditions for Erection & Commissioning should be furnished in detail separately by Vendor along with the Technical Offer.	
19.8	<b>LEVELING &amp; ANCHORING SYSTEM:</b> Complete anchoring system including foundation plates, nuts and bolts, anchoring materials, fixtures, levelling shoes etc. shall be supplied along with the Weighing Machine	
19.9	Final calibration (with validity for one year) and stamping of the Weigh Bridge by Statutory Authority shall be under the scope of the vendor.	
<b>20.0</b>	<b>TRAINING:</b> The vendor shall impart training to BHEL's Weigh Bridge Operators and Maintenance crew in Operation and Maintenance aspects during commissioning of the Machine at BHEL works. Vendor to confirm.	
<b>21.0</b>	<b>GUARANTEE:</b> The equipment has to be guaranteed for its performance, for a minimum period of TWELVE months from the date of COMMISSIONING at BHEL Works.	

<b>S.No.</b>	<b>DESCRIPTION / PARTICULARS</b>	<b>VENDOR's OFFER [With Technical Details]</b>
<b>22.0</b>	<b>SCOPE OF SUPPLY</b>	
<b>22.1</b>	<b>Vendor's Scope</b>	
22.1.1	Design, Manufacture, Supply, Erection & Commissioning and Stamping (Statutory authority) of Electronic Weigh Bridge.	
22.1.2	Supply of all structural components including platform (18m×3m) for the weigh bridge.	
22.1.3	Supply of Load cells with spares	
22.1.4	UPS with Battery	
22.1.5	Weigh Bridge Software	
22.1.6	Digital Indication System	
22.1.7	All Documents as mentioned in this specification.	
22.1.8	All preliminary drawings including foundation drawing to be submitted to BHEL for approval.	
22.1.9	Necessary materials required for erection and commissioning, as mentioned in this specification.	
22.1.10	Spares as mentioned in the weigh bridge	
22.1.11	Commissioning Engineer with crew – Responsible for Erection, integration of the entire system, Stamping, Commissioning and imparting Training to BHEL operators and Maintenance crew.	
<b>22.2</b>	<b>BHEL scope</b>	
22.2.1	Approval of Drawings submitted by the vendor	
22.2.2	Construction of control room and civil foundation for weighbridge as specified by the vendor.	
22.2.3	Supply of Computer and peripherals as mentioned in this specification	
22.2.4	Power supply source at a single point as mentioned in the layout submitted by the vendor.	
<b>23.0</b>	<b>Annual Maintenance Contract</b> – whether support can be provided by the bidder for maintenance works of the quoted weigh bridge on contract basis, after completion of the Guarantee period. Bidder to specify.	

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