

Tender No.
CPP/Weigh
Bridge/3 dated

NEPA LIMITED NEPANAGAR

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SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF PITLESS
ELECTRONIC IN-MOTION WEIGHBRIDGE CAPACITY-140MT AS PER
RDSO SPECIFICATION NO. WD-29- MISC-19 (Rev.1) INCLUDING
CIVIL WORK



NEPA LIMITED

NEPANAGAR, MADHYA PRADESH

TENDER FOR

**SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF PITLESS
ELECTRONIC IN-MOTION WEIGHBRIDGE CAPACITY-140MT AS PER
RDSO SPECIFICATION NO. WD-29- MISC-19 (Rev.1) INCLUDING CIVIL
WORK ON NEPA SIDING FOR MEASUREMENT OF COAL RAKE.**

Nepa Ref. No – CPP/Weigh Bridge/03, dated

NEPA LIMITED

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Tender No.
CPP/Weigh
Bridge/3 dated

NEPA LIMITED NEPANAGAR

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SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF PITLESS ELECTRONIC IN-MOTION WEIGHBRIDGE CAPACITY-140MT AS PER RDSO SPECIFICATION NO. WD-29- MISC-19 (Rev.1) INCLUDING CIVIL WORK

(A Govt. of India Undertaking)

Nepanagar, District Burhanpur, Madhya Pradesh State, India, Pincode-450221.

CIN: U21012MP1947GOI000636

NOTICE INVITING BID

Sealed bids, under Single Stage Two Bid System (Techno-commercial & Price) are invited from renowned Weigh bridge EPC Contractors for the items mentioned in the scope.

Tender No. & Date	Brief Description of Goods/ Services	EMD/Bid Security	Tender Document Cost
CPP/Weigh Bridge/03, dated	PIT LESS ELECTRONIC IN MOTION WEIGH BRIDGE OF CAPACITY 140 MT ON TURN KEY BASIS INCLUDING CIVIL WORK	As per GeM/CPP portal	As per GeM/CPP portal

NEPA reserves its right, at its discretion, to modify or to cancel the tender without assigning any reasons whatsoever. For further amendments in the tender documents required in future (if any), the same shall be hosted on the websites only.

General Manager (Works & Project)

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Tender Number	CPP/Weigh Bridge/03, dated
Price of the tender Documents	As per GeM/CPP portal.
Type of Tender (Two Bid)	Two bid : Part 1 -Technical & unpriced commercial bid, Part 2- Price Bid
Date of commencement of Sale of tender document	As per GeM/CPP portal.
Place of Sale of tender document.	As per GeM/CPP portal.
Pre-Bid Conference	As per GeM/CPP portal.
Place of Pre-Bid Conference	Nepa Limited, Nepanagar Burhanpur District, MP – 450221 Phone: 07325-222269 Fax: 07325-222174
Last Date and time of Sale of tender document	As per GeM/CPP portal.
Closing date and time for receipt of tenders	As per GeM/CPP portal.
Place of receipt of Tenders.	Administrative Building Nepa Ltd , Nepanagar Distt- Burhanpur Pin-450221, M.P
Time and date of opening of tenders	As per GeM/CPP portal.
Place of opening of Tenders	Administrative Building Nepa Ltd , Nepanagar Distt- Burhanpur Pin-450221, M.P
Nominated Official to receive the Tender	General Manager (Works & Project) Nepa Ltd Nepanagar (M.P.) PIN – 450221 Phone No. 07325-222173 Email id - gmpw@nepamills.nic.in - ph@nepamills.nic.in

Note: Change in above dates, if any may be notified on our website. Please visit our website regularly.

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PART 1: TECHNICAL BID

1. PRE-QUALIFICATION CRITERIA (PQC)

The Bidder has to qualify technical, financial & other pre-qualification criteria.

1.1. Technical Pre-qualification Criteria

The party should have a previous experience in similar supply and installing in-motion weighbridge systems on turnkey basis in any Central/ State Public Sector Undertaking, Central or State Government / Semi Government or a Private/Public Limited Company registered under Companies Act in India during last 10 years ,

2. Financial Pre-qualification Criteria

2.1 BIDDER should have experience as per clause no 1.1 during last five (5) years, ending last day of month previous to one in which bids are invited should be either of the following.

- I. One similar completed works each costing not less than amount equal to Rupees Twenty Two Lakhs Forty Thousand Only (Rs.2240000/-) **OR**
- II. Two similar completed works each costing not less than amount equal to Rupees Fourteen Lakhs Only (Rs. 1400000/-) **OR**
- III. Three similar completed works each costing not less than amount equal to Rupees Elleven Lakhs Twenty Thousand Only (Rs. 11,20,000/-)

2.2 The BIDDER should have registered Profit before Tax (PBT) in at least two (2) years during the three (3) preceding accounting years. Bidder's net worth at the end of last financial year should be positive. Copy of balance sheets in this respect shall be enclosed.

2.3 The average annual turn- over of the bidder during the preceding three(3) financial years ending **31-03-2023** should not be less than Rupees Eight Lakhs Twenty Forty Thousand Only (Rs. 840000/-).

3. OTHER PRE-QUALIFICATION CRITERIA

- 3.1. The BIDDER should not have been blacklisted /debarred by Government of India/ Reserve Bank of India / any PSU during last five (5) years.
- 3.2. The bidder should confirm that they are competent and legally authorized to submit the tender and / or to enter into legally binding contract.
- 3.3. The party should not have incurred any loss in more than two years during the last five years ending March 2021. The financial result figures shall be certified by a Chartered Accountant who is not employee of the Bidder.
- 3.4. Bidders as a member of Consortium or Joint Venture are not permitted to participate in the tender proceedings.
- 3.5. The party should have enough capacity in terms of personnel, labour force both skilled and unskilled; equipments, plants and machinery to complete the work satisfactorily.
- 3.6. The party should have sufficient stock of PPE's (Personal Protective Equipments) and other safety gadgets related to mechanical and electrical working.

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4. DOCUMENTS TO BE SUBMITTED IN SUPPORT OF PRE-QUALIFICATION CRITERIA

The following documents should be submitted by the bidder to prove the pre-qualification criteria.

- 4.1 Bidder's Profile, Company Registration, Bank Account, etc.
- 4.2 Customer Certificate/documentary evidence in support of technical pre-qualification criteria mentioned above duly certified by authorized signatory.
- 4.3 Customer Certificate/documentary evidence (copy of work order/agreement and work completion certificate issued by competent authority of the customer) in support of Financial Pre-qualification criteria mentioned above duly certified by authorized signatory.
- 4.4 Certified Copy of Audited Balance Sheet and Profit and loss account for the last 3 (three) Financial Years.
- 4.5 Details of similar works (with proof).
- 4.6 Declaration that the bidder has not been blacklisted/debarred by Government of India/Reserve Bank of India /any PSU during last five years duly signed by authorized signatory. (Annexure 7 of the tender document)
- 4.7 Declaration that the bidder is competent and legally authorized to submit the tender and/ or enter into the legally binding contract.
- 4.8 Compliance Format (Annexure 14) of the tender document.
 - A. Copies of TIN, PAN GST Reg. no. as applicable shall be submitted along with technical bid.
 - B. Copy of valid labour license also to be submitted.
- Any other relevant document the bidder wishes to submit.**
- 4.9 Additional/Supplementary information or documentation regarding pre-qualifications not specified above or elsewhere in this tender may be sought from the Bidder at any time and must be so provided within a reasonable time frame as stipulated by NEPA.
- 4.10 The bidders shall give a written confirmation for fully understanding the scope immediately after the Pre-bid meeting.
- 4.11 Wherever the work has been executed / completed as per the terms of Work Order/ Annual Maintenance Contract/ Rate Contract, the tenderer is required to submit self-attested copies of Work Orders/ AMC/ RC and Completion Certificates issued by Clients in support of eligibility and experience along with techno-commercial bid. Further, the bidder shall submit an Affidavit as per format at Annexure 15 declaring that the documents submitted are genuine.
- 4.12 In case the work is under execution and has not been completed, the tenderer shall submit proof of executed value of work in the form of certified copies of Running Account bills passed by the Client along with successful work execution certificate by the concerned authority, in support of fulfilling the eligibility and experience. The value of work order (s) submitted by the bidder shall be considered on pro rata yearly basis.
- 4.13 Tender schedule will be in two parts viz., Technical bid, and firm price bid. Bidder to submit Technical bid & Firm price bid as per GeM /CPP protocol i.e. Technical bid and Firm price bid should be uploaded on GeM portal separately in their respective slots.
- 4.14 Firm Price Bid is to be submitted as per (Annexure 16).

NOTE: Bidders who do not meet the above criteria shall not be evaluated further in the bidding process. A Bidder shall be disqualified if it is determined by the NEPA at any stage of bidding process that the Bidder has made misleading or false/fake representation in the form, statements and attachments in the proof of the qualification requirements. The bidder shall also be disqualified if it fails to continue to satisfy the Qualifying Criteria during any stage of the evaluation process.

5. ASSOCIATE

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<p>5.1 The Bidder may engage another associate for the selective co-ordination of the tender activities and/or supply of certain deliverables under the tender scope. The associate thus engaged, if any, shall either be a group company/subsidiary of the bidding associate or a business partner & need to submit their acceptance certificate.</p> <p>5.2 In the event of the Bidder engaging any associate other than a group company/ subsidiary for any project activity specified under the scope of the Bid, then the associate thus engaged shall have proven references for executing the said activities in a successful manner. Nepa reserves the right to verify the credentials of the associate and accept/reject the proposal to enlist the support of the said associate for this project.</p> <p>5.3 Interested Bidders may obtain further information about this requirement from the project office. They may also visit our website www.nepamills.co.in / GeM Portal for further details.</p> <p>5.4 Tender cost / EMD waiver will be applicable for SSI / MSE / MSME / PSUs bidders with submission of certification as per guidelines. The exemption shall, however, be only for the goods & services for which the certificate is issued. The certificate issued by the authority should be valid on the date of opening of the tender.</p> <p>5.5 The Bid validity shall be 120 days & EMD/Bid Security shall be furnished by means of a Demand Draft drawn in favor of NEPA LIMITED, payable at Nepanagar along with the techno-commercial bid. Alternatively, EMD can be furnished by means of a Bank Guarantee valid for 120 days from the date of closing the tender in favor of Nepa Limited, from a scheduled Indian Commercial bank along with the techno-commercial bid. Bank guarantee shall be as per the format in the tender document).</p> <p>5.6 In the event of any of the above-mentioned date being declared as of holiday/ closed day for the purchase organization, the tenders will be sold / received / opened on the next working day at the appointed time.</p> <p>5.7 The tender documents are not transferable.</p> <p>5.8 All further notification / Corrigenda, if any, to this Notice Inviting Bids as well as to the Bid Document will be hosted on GeM portal only and not through newspaper advertisement. Bidders are advised to check GeM portal regularly to ascertain for themselves, if any changes have been made.</p> <p>5.9 If any bidder requires any clarification against the tender document, they are requested either to visit the office of the undersigned at Nepanagar or forward their queries sufficiently in advance (5 working days) before the closing date for receipt of tenders by mail to gmpw@nepamills.nic.in .cc to ph@nepamills.nic.in, Commercial@nepamills.nic.in or to visit the office of the undersigned at Nepanagar.</p> <p>5.10 Nepa reserves its right, at its discretion, to modify or to cancel the tender without assigning any reasons whatsoever.</p>		
<p>General Manager (Works & Project) Nepa Limited, Nepanagar, District Burhanpur, MP, Pin-450221, India Phone: 07325-222273 Fax: 07325222174 gmpw@nepamills.nic.in www.nepamills.co.in</p>		
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6. INTRODUCTION

- 6.1 Nepa Limited (Nepa), Neapanagar is a Public Sector Undertaking (PSU) under the administrative jurisdiction of Department of Heavy Industry (DHI), Ministry of Heavy Industries and Public Enterprises, Government of India (GoI).
- 6.2 Nepa Limited (NEPA) is the pioneer newsprint Company of India located centrally at Neapanagar, Distt. Burhanpur in Madhya Pradesh. NEPA Ltd. started its commercial production in 1956 based on forest based raw materials.
- 6.3 NEPA is the oldest newsprint mill in the country and has expanded in stages to the present installed capacity of 88,000 TPA. Due to acute shortage of forest based fibrous raw material, the mill switched over to recycled fiber in 1997.
- 6.4 NEPA is currently implementing Revival & Mill Development Plan (RMDP).
- 6.5 Nepa Limited has a 12.27 MW Captive Power Plant to cater to steam & Power requirement of Mills with Grid connection at 132/6.9 KV Substation. The Plant comprises of major equipments like 1)AFBC Boiler 85 TPH with complete Auxilliaries,2)BHEL make TG, capacity 12.27 MW with complete auxiliaries, Ash Pond, Coal Handling Plant, Demineralization Plant, Cooling Tower, Chimney (80 m height) , Electrostatic precipitator Ash handling plant 132/6.9 KV Substation ,HT,LT switchgears etc & all auxiliaries & railway track for handling of coal.

7. CONTRACT OUTLINE

This Tender covers “supply, erection and commissioning of pit less electronic in motion weigh bridge of capacity 140 MT on turnkey basis including civil work on Nepa siding for measurement of coal rakes.

8. COMPLETION PERIOD & SECURITY DEPOSITE:

9.

Completion Period

2 months from the date of issue of work order .

Security Deposit

Within 10 days from the date of Issue of LOI/PO, the BIDDER shall furnish the security deposit (SD) of 03% value of contract value by means of Money receipt of our cash department / Demand draft / NEFT / RTGS / Bank Guarantee valid for 120 days from the date of closing the tender in favor of Nepa Limited, from a scheduled Indian Commercial Bank as SD along with the bid. SD shall bear no interest. NEFT/RTGS deposits to be made in NEPA bank account as stated in Tender Notice Clause 9. Bank guarantee shall be as per the format Annexure 2 in the tender. The bank guarantee being furnished shall be valid till completion of warrantee period, with 2 (two) months claim period. NEPA shall recover from the bidder any amount due from the bidder out of the security deposit, or/and against outstanding payment obligations of the purchaser to the bidder.

Submission of authentic documents is the prime responsibility of the bidder/contractor. Wherever NEPA has concern or apprehension regarding the authenticity/correctness of any document, NEPA reserves a right of getting the document cross verified from the document issuing authority or from any other source, as deemed fit.

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10. DEFINITIONS OF TERMS & VARIOUS CLAUSES OF BID / TENDER / ENQUIRY DOCUMENTS

The contents sheet indicates all the clauses included in the Tender/Bid/Enquiry Document and also lists various specifications modules contained therein.

10.1.1. "PURCHASER" shall mean "Nepa Limited". The PURCHASER shall include its successors, as well as its authorized Nepa officers and representatives. The term MILLS / COMPANY / OWNER / NEPA used in some documents shall also mean the PURCHASER.

10.1.2. "ENGINEER" shall mean the Engineer in charge deputed or nominated by PURCHASER, as the case may be who shall supervise and be the In-charge of the works.

10.1.3. "BIDDER/TENDERER" shall mean the company, firm or party who bids or quotes against the notice inviting bids.

10.1.4. "ASSOCIATE" shall mean another firm engaged by the BIDDER/VENDOR for the co-ordination of the selected project activities and /or supply of certain non- critical components / services under the project scope. The firm thus engaged, if any, shall either be a group company/ subsidiary of the Bidding firm or business associate of BIDDER/VENDOR.

10.1.5. "VENDOR/SUPPLIER/ CONTRACTOR" shall mean the successful bidder, whose bid the purchaser has accepted and to whom LOI / PO have been issued by the PURCHASER or a contract agreement has been signed by the PURCHASER. The VENDOR shall include their successors, as well as its authorized officers and representatives.

10.1.6. "SUB-VENDOR" shall mean the company, firm or party, undertaking a part of the supply and /or site work, on which a part of the contract agreement has been sublet, which has been intimated /offered to the PURCHASER. The SUB-VENDOR shall include their successors, as well as his authorized officers and representatives.

10.1.7. "INSPECTOR" shall mean the authorized representative appointed by the PURCHASER for the purpose of inspection of materials, equipment and work quality.

10.1.8. "SITE" shall mean the actual place of the Project (premises of Nepa Limited, Nepanagar), where the plant or the Equipment or the material ordered needs to be supplied and/or where the Work has to be executed under the Contract.

10.1.9. "TENDER / ENQUIRY DOCUMENT" shall mean collectively the 'Covering Letter', or the 'Invitation to Bid' or the 'Notice Inviting bid' and various clauses of this document.

10.1.10. "BID" shall mean the proposal or the quotation that the BIDDER submits to the PURCHASER in response to notice inviting bid.

10.1.11. "EQUIPMENT OR THE WORK" shall mean the goods to be supplied and or the services to be provided by the VENDOR/ Sub-VENDORS under the Contract Agreement or the Contract.

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<p>10.1.12.“PLANT” shall mean power plant.</p> <p>10.1.13.“CONTRACT AGREEMENT OR CONTRACT” shall mean the document jointly signed by the PURCHASER and the VENDOR, authorizing the VENDOR to supply the plant or the equipment and / or execute the Work as indicated in the Contract Agreement or the Contract and shall include all amendments/addendum/corrigendum if any.</p> <p>10.1.14.“ORDER VALUE OR THE CONTRACT PRICE” shall mean the amount of compensation payable by the PURCHASER to the VENDOR for the execution the work as indicated in the Contract Agreement or the Contract.</p> <p>10.1.15.“DELIVERY PERIOD AND THE CONTRACT PERIOD” shall mean the period indicated in the Contract Agreement or the Contract by which the ordered plant or the Equipment needs to be delivered and the Work needs to be completed, respectively, by the VENDOR.</p> <p>10.1.16.“MONTH” shall mean a calendar month.</p> <p>10.1.17.“GUARANTEE/DEFECTS LIABILITY PERIOD OR SIMPLY THE GUARANTEE PERIOD" shall mean the period during which the plant or the equipment supplied by the vendor and /or the work executed by the vendor shall be free from defects in design, materials or workman ship accordance with the contract. It will also be subject to clause.</p> <p>10.1.18.The words “APPROVED” or “APPROVAL” used in the tender document shall mean APPROVED BY or APPROVAL BY the PURCHASER or the ENGINEER or the VENDOR as the case may be. When the words ‘Approved’, ‘Approval’, ‘Subject to Approval’, ‘Satisfactory’, ‘Equal To’, ‘Proper’, or words and phrases of similar meaning are used, the approval, judgment and direction etc., are understood to be a function of the PURCHASER or the ENGINEER or the VENDOR, as the case may be.</p> <p>10.1.19.“PURCHASER’s Instructions” shall mean any drawings and/ or instructions, oral and/ or in writing by post/E-mail/Fax, details, direction and explanations issued by the PURCHASER or the ENGINEER from time to time during the Contract Period.</p> <p>10.1.20.“NOTICE IN WRITING OR THE WRITTEN NOTICE” shall mean a notice in written, typed or printed characters sent or delivered personally or otherwise proved to have been received by fax or e-mail or registered post or courier service to the last known private or business address or registered office of the addressee and shall be deemed to have been received when in the ordinary course of post it would have been delivered.</p> <p>10.1.21.“VENDOR’s Works” shall mean the manufacturing facilities /workshops which are used by the VENDOR for the manufacture of the Plant or the Equipment for executing the Work.</p> <p>10.1.22.“OPERATION” shall mean the integrated operation of the plant, system and equipment covered under the Contract for a specified period to prove trouble-free operation of the plant, system and equipment covered under the Contract.</p> <p>10.1.23.Word meaning ‘PERSONS’ shall include Firms, Companies, Corporations and other Bodies whether incorporated or not.</p>		
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11. Tender Document

- 11.1. Tender Document shall mean collectively the ‘Covering Letter’, or the ‘Notice Inviting Bids’ or the ‘Notice Inviting Tender’ and various clauses of this document. Contents Sheet indicates all the clauses included in the Tender Document and also lists various specification modules contained therein. All these clauses need to be considered together for correct understanding and interpretation of the Tender Document.
- 11.2. The BIDDER shall be deemed to have carefully examined the complete Tender Document and to have fully understood and satisfied himself as to the details, nature, character and quantities of the work to be carried out, site conditions and other pertinent matters and details.
- 11.3. The BIDDER, before submission of the Bid, shall bring any other contradiction in the Tender Document, to the notice of the PURCHASER/ ENGINEER
- 11.4. Sufficiently in advance. Such contradictions need to be resolved by the PURCHASER/ ENGINEER before the due date of closing the Bid.
- 11.5. It is the intent of the PURCHASER to incorporate the Tender Document as part of Contract Agreement or Contract.

12. SCOPE OF WORK:

Supply, Erection and Commissioning of Pit less electronic In motion weigh bridge Model – MW 2500 Make “Digital” (with Rail mounted transducers and Multi-Processor based) of capacity 140 MT, WB-15 type weighing speed of 15Km/h and as per the following given specifications / parameters mentioned therein.

Installation, Commissioning and Testing, verification and stamping by Weights & Measures Department as per given specification including terms and conditions as mentioned therein.

However the work of FOIS interface with EIMWB will be carried out and completed only after generation of station code, IP address and password.

Construction of RCC slab type sub base foundation M 30 grade concrete and weigh cabin including other relevant civil works. (As per requirement)

11.1 SCOPE OF SUPPLY: The scope supply includes

1. Weigh Rail (Rail mounted transducers) 5.5mtrs length.
2. System Electronic Control Console.
3. PC for Communication.
4. Laser Printer.
5. 2 KVA Online UPS with min. 1 hour battery back up.
6. Track Switches / sensor contact less.
7. Advance over speed warning system.
8. 2KVA Voltage stabilizer / CVT.
9. Lightening & Transient (Surge) protection device.

Any other items as required for the completeness of the system.

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13. FUNCTIONAL REQUIREMENTS & DEFINATIONS:

12.1.1 WEIGHING SPEED: Weighing speed will not exceed 15 Kmph for WB15 Type Weighbridge. While non-weighment speed of a train should not be more than 30 Kmph over weighbridge.

12.1.2 WEIGHBRIDGE CAPACITY: Transducers will be able to measure a load up to 35 tons for each axle and software & hardware will be able to measure weight up to 140 tons for an individual wagon/coach.

12.1.3 ADVANCE OVER SPEED WARNING SYSTEM: A audio-visual warning system will be provided with In- motion Weighing system to alarm the driver for controlling speed before train approaches the Weighbridge. The advance over speed warning system will be installed at a suitable location and height to provide visibility from both direction during weighment of rakes.

The visual indication will appear of purple colour LED based and have two mode of operation i.e. steady, if the speed of train is within specified limit and pulsing in case of exceeding limit.

12.1.4 ANTI-ROLL BACK: The system is having anti roll back facility during weighing and it will sense reverse movement of Wagon/coach without affecting the orderly recordance of weight of each wagon/coach in the rake. Therefore, multiple weighing of same wagon/coach can be prevented.

12.1.5 WAGON OR COACH IDENTIFICATION: The highly rugged Track Switches of Weighing system placed at suitable distance and highly sophisticated software will detect type of wagons, Break van and loco-motives etc. Passing through Weighbridge. The system will weigh all type of approved wagons/coaching stock include container wagon, parcel vans, coaches, VPU & VPH and BLCA, BLCB and their variants used in Indian Railway.

12.1.6 BI-DIRECTIONAL WEIGHING: The system is suitable for taking the Weighment of wagon / coaches atboth the directions.

12.1.7 MIXED RAKE WEIGHING: The system will be able to weigh a mixed rake consisting of empty and loaded wagons / coaches.

12.1.8 WORKING ENVIRONMENT: Complete system will work satisfactorily at a temperature of 55 to 60 degree centigrade and humidity of 95% under dusty environment and tropical condition. The instrument is so designed and manufactured that a significant fault within the value of error of indication will be ensured i.e.

- i. Ensuring significant faults do not occur.
- ii. Ensuring significant faults are detected and acted upon.

A fault equal to or less than significant fault (1xd) will be allowed.

12.1.9 ACCIDENTAL MAL ADJUSTMENTS: The system is so designed to show not ready to weigh in- case of any mal-adjustment takes places so that metrological requirement do not get disturbed.

12.1.10 TAMPER PROOF: The system will provide the necessary arrangement for bolting/locking to prevent against tamper for the assemblies/subassemblies which may lead to erroneous weighment. Enclosure of junction box and hardware cabins will be moisture and dust proof. Arrangement of system will ensure tamper proof so that erroneous weighment due to alteration of assemblies / sub-assemblies can be detected. The control console will ensure recordance and verification of logging details at the time of calibration.

12.1.10.1 The weighing electronic will be used independently during calibration of weighbridge without integration of PC.

12.1.10.2 The System calibration and adjustment will be ensured through hardware switch and keyboard linked with digitizer and same will be disabled after calibration.

12.1.10.3 The system will ensure disabling of calibration mode after sealing of digitizer and cannot be accessible after.

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12.1.10.4 The system will provide display facility for calibration value, calibration date and time and will be available for verification without opening control console.

12.1.10.5 The system will have facility for direct print out of test wagon weight during calibration without PC or control console will store calibration data / weight of test wagon for record.

12.1.11 TRACK REQUIREMENT: A minimum of 100 meter straight rail track length to be made available with a gradient of not more than 1:400 on either side of Electronic In-motion Rail Weighbridge. This portion of the track should be on ballast cushion, well maintained and well drained so that there is no water accumulation. The level, twist and alignment will be maintained to main line track standard of IR.

A joint inspection to ensure type of stock, condition and layout of track and the site with Railway / Purchaser. Site earmarked should be as per current RDSO specification and preferably approachable by road.

14. PARTICULAR REQUIREMENT: The weighbridge will comprise of weigh rails with transducers, track switches/sensors, weighing system electronics (control console) and processing and printing equipment and any other equipment required for satisfactory performance of the system.

13.1.1 Technical requirements / soft requirements / weighing system electronics:

13.1.1.1 TECHNICAL REQUIREMENTS:

WEIGHING RAILS: Weigh rails with transducer suitable for the purpose, length of these weigh rails will be 5.5 meters and rail section will be the same as the adjoining rail section i.e. 52kg / 60kg as required. Weigh rails to be electronically isolated from the approach rail to prevent signaling voltage as well as to protect from lightning effect. A jumper can be provided at weigh rail portion for a length of 5.5mtrs to isolate weigh rail to avoid damage to load sensors.

- a) IRST – 12 –GRADE 880 rails that will be used for weighbridge system when installed on main/loop lines of IR. The provision of EIMWB 15Kmph should preferably be installed in loop line. However Procurement of Grade 800 rails will be governed by RDSO specification WD-29-MISC-19.
- b) IRST – 12 IU Grade Rails that will be used for weighbridge system when installed on non-railway organization / Private siding where movement of passenger trains do not take place.

13.1.1.2 RAIL TRANSDUCERS: The Rail transducers will meet following specifications.

- a) Cables and connectors suitable for rail transducers will be provided with proper screening to isolate electrical leakage.
- b) Type of protection: IP- 67.
- c) The Sensors are temperature compensated ones to arrest the thermal stresses and dis-balance of wheat stone bridge under no load condition

13.1.1.3 TRACK SENSORS (TRACK SWITCHES):

- a) Track sensors will be non-contact type suitable for WB-15 weighbridges.
- b) Track switches combination is of Capable of speed measurement, discriminating the type of axle combination and will define weighing zone.
- c) Track switches are designed to work in all whether condition.
- d) Junction box will be supplied with adequate protection against water and dust suitable for performance under all whether condition.

13.1.1.4 WEIGHING SYSTEM ELECTRONICS:

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- a) System will consist of control console unit, a PC for communication with control board through RS232 C Serial port or Ethernet.
- b) System is relay logic free design and all control logic will be achieved through semi-conductor device.
- c) System will consist of a standard Alpha numeric key board for inputting data from time to time.
- d) System will consist of VDU for monitoring the contents and results.
- e) A Laser Jet printer will be supplied for printing weight of individual wagon and total train and will be suitable to print A4 size paper.
- f) The system software will provide weight display on 7 segment high bright LED display and fault finding on alpha numeric 16 digit x 2 lines display for information.
- g) **AUTO ZERO:** The system will provide auto zero function and also auto Calibration as per requirement of given specification.
- h) **AUTO CALIBRATION:** This is a unique feature of the system which will check the calibration parameters of the Weighbridge at regular intervals. Any variations due to temperature, environmental conditions or any other reason will automatically detected and the calibration will be done as and when necessary. Therefore, it is not necessary to check the calibration each and every time.
- i) The system will have a facility for operating a VDU and a printer at remote place through a standard RS422 serial port for LAN / WAN/internet for FOIS.
- j) The Electronic equipment will be suitable for working in field environment. Micro weigh 2500 is most advanced Electronic Weighing system having all features required for In-motion Wagon Weighing and it can work in extreme weather condition without air conditioner.

13.1.1.5 POWER EQUIPMENT AND BATTERY BACK UP

- a) In put power supply for the system will be 230 Volts +/- 10 %, at 50 Hz
- b) A suitable voltage stabilizer / CVT of minimum 2 KVA capacity will be provided along with the system.
- c) An Online UPS of 2 KVA capacity with minimum one hour battery back-up for keeping weighbridge functional in case of power failure will be supplied.
- d) As already mentioned the system MW 2500 is having memory protection devices to restore data in case of power failure. The system will store the weighment data with its memory bank and therefore the weighment details will not be effected in case of power failure.

13.1.1.6 LIGHTNING AND TRANSIENT PROTECTION

13.1.1.6.1 POWER AND DATA LINE PROTECTION

Adequate protection against electrical surges arising from high voltage traction system, lightning & transient protection will be provided to avoid damage/mal-functioning of the equipment, which includes all the sub- systems like rail transducers, track sensors, weighing system electronics, power equipment & battery backup, etc.

All above electronic equipment will be tested for disturbances from burst and electro-static discharge as per OIML R106. Lighting and transient protection will be complied as per STR latest MISC-19

Procurement and installation of Power Lines and Data lines protection (SPDs) will be complied through reputed OEM or their authorized representatives to ensure appropriate function as per given STR WD-29- MISC-14.

- 13.1.1.6.2** Ground enhancement material will be used to provide protection against lightening and surge as per specification No. RDSO/SPN/197/2008 Latest / revision.

- 13.1.1.6.3** The procurement and installation of lightning and transient protection will be ensured only through reputed OEM or their authorized representative so that performance of weighbridge and equipment do not mis-match.

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13.1.2 SOFTWARE REQUIRMENTS

13.1.2.1 We offer you highly intelligent windows based weigh software having adequate protection against malfunctions. The similar software is successfully working with hundreds of electronic in-motion rail wagon weigh bridges all over India. **In case the software needs any modification in accordance to your specific requirements without any major change therein, the same shall also be done by us on your request.**

13.1.2.2 PC will be compatible to receive and transfer text file data within LAN / WAN at remote / local server. The PC and software will be compatible to work with FOIS connectivity as per given specification.

13.1.2.3 Operator interaction will be through PC or control console with VDU.

13.1.2.4 Initial screen will be either an indexed block or a drop down menu can be selected through cursor key or mouse.

13.1.2.5 Menu driven software will be as per given specification selected either by cursor key or mouse like weighing, editing records, printing, calibration, diagnostic test etc.

13.1.2.6 During weighing mode system will record number of axle in wagon, gross weight, sequence number, date & time etc.

13.1.2.7 The system will be capable elimination of last vehicle in the train in addition to break van / loco at specified wagon sequence number.

13.1.2.8 The System weighment software will not have any facility like delete/ edit/ erase of rake weighment data and there will not be any import / export option to any other software.

13.1.2.9 System will have facility for auto zero balance through menu selection / automatically before commencing new weighing cycle.

13.1.2.10 Weighbridge system will be capable of weighing long haul trains as per technical specification.

13.1.3 PRINT OUT REQUIREMENTS: The printout form will include the following data for each wagon:

(i) Gross weight

(ii) Tare weight

(iii) Net weight

(iv) Gross weight for rake

(v) Date & time, Time in & out for rake

(vi) Rake No., Wagon identification No.

(vii) Total Weight of commodity in a given rake

(viii) Speed of the train and in-case of exceeding speed all parameters will be printed except weight of the wagon.

13.1.4 FILE RETRIEVAL: System should have facilities to store and retrieve the weighment information stored in the hard disc and such stored information cannot be edited.

13.1.5 The operating software is having in-built security and other requisite features as mentioned in the given specification for compliance.

13.2 STRUCTURAL REQUIREMENT

13.2.1 A concrete / pre fab structure of weighbridge control room size 3mtr x 4mtr and 3mtr height with RCC roof will be provided for installation and operation of control equipment. The room will be provided with AC Machine 1.5T capacity, 5 Star rating, light fittings and fans. The room will have a bay window for clear vision of the weigh-zone track. – **Included from the scope of work.**

13.2.2 FOUNDATION / SUPPORT

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A slab type concrete sub base foundation for laying concrete sleepers throughout the underneath length of weigh rail for installation of EIMWB. The concrete grade will be ensured M30 and approximate life span of eight years from the date of commissioning. Any repair found necessary during currency of warranty/AMC will be the responsibility of scope of work. - - **Included from the scope of work.**

13.3 DOCUMENTS REQUIRED

13.3.1 OPERATORS MANUAL:

OEM operator instruction manual with detail will be submitted for record.

13.3.2 MAINTENANCE MANUAL:

OEM maintenance manual with detail will be submitted for record.

13.4 TRAINING:

Necessary training for operation and maintenance will be provided to Railway as per given specification.

13.5 DELISTING:

Noted and accepted as per given specification.

14. TESTING:

14.1 METROLOGICAL REQUIREMENTS AND TEST SCHEME

14.1.1 Accuracy class of weighbridgeWB-15 weighbridge will meet an accuracy of Class -1 for wagon / coach weighing and accuracy class 0.5 for rake / train weighing.

14.1.2 The MPE In-motion Weighbridge will be as per accuracy class -I for wagon weighing and 0.5 for train weighing according to the meteorology department rule and table - 1 of given RDSO specification.

14.1.3 Confirmed as per given RDSO specification.

14.2 TEST SCHEME: Confirmed as per given RDSO specification.

14.2.1 The reference wagons are to be made available by concerned railway for verification of weighbridge. Further the weight of the reference wagons are to be ascertained by weighing the same on an accurate, valid Legal Metrology certified electronic static weighbridge in uncoupled condition.

14.2.2 Accepted as per given RDSO specification

14.2.3. VERIFICATION AND CALIBRATION: It will be under scope of work to take up the verification and calibration of the weighbridge after installation. However purchaser to provide the same reference wagons from concerned railway for calibration and for verification purposes.

15. INSPECTION: The inspection of the Weighbridge system will be conducted as follows:

15.1 First pre-dispatch inspection of weighbridge supplied by a fresh registered vendor to either zonal railways or private sidings will be carried out by RDSO.

15.2 Pre-dispatch inspection of weighbridge by any registered weighbridge manufacturer, supplied to Zonal Railways will be carried out by RITES.

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<p>15.3 Pre-dispatch inspection of weighbridge by any registered weighbridge manufacturer supplied to private siding will be done on WTC basis by the weighbridge manufactures itself.</p> <p>16. <u>WARRANTY:</u> The weighbridge is installed on turnkey basis including civil and electrical works. The machine will be warranted against the defects in design and materials and workmanship for a period of 18 months from the date of dispatch or 12 months from the date of commissioning whichever is earlier. Warranty will be applicable to the all work done by the weighbridge manufacturer. During this period all defective parts i.e. weigh rail and all accessories will be replaced promptly and free of cost to the customer and such replaced parts will further carry the same warranty. Warranty will not be applicable for consumables item like printer ribbon, printer cartridge, UPS batteries and fuses.</p> <p>16.1.1 <u>GUARANTEE & WARRANTY:</u> The weigh bridges offered by us stands warranted for a period of 18 months from the date of supply or 12 months from the date of commissioning whichever is earlier. However this does not cover damage, breakdown resulting from accident, fire and other force majeure conditions.</p> <p>16.1.2 <u>PURCHASER TO PROVIDE:</u></p> <ol style="list-style-type: none"> 1. Official stamping fee. 2. Arrangement of concrete sleepers and required assistance for laying of concrete sleepers & rail fitting at site. 3. Rail cutting and isolation of track circuit if any. 4. Arrangement of Test Wagon required for calibration 5. Water and Electric supply of 230V \pm 10% 50 Hz for weigh cabin. 6. Any other statutory fees to be provided by purchaser However the lisoning with railways to be carried out by bidder 7. In case any approvals or site clearances are required for installing the Weighbridges the charges in this account payable to the competent authority has to be borne by Purchaser. 8. <u>INSPECTION:</u> On WTC basis as per RDSO. <p>17. <u>SUBMISSION OF BILLS AND PAYMENT THEREOF:</u></p> <p>17.1. The contractor shall submit his bills for supply & service, complete in all respects in the prescribed form at the accepted rates to H.O.D. / .Manager (P.H.) of the company. The net amount of the bill after all deductions as may be due shall be paid to the contractor after check and audit ordinarily within 15 days of receipt of the bill by Finance Division of the company. If a Bill is incorrect or incomplete or otherwise not properly made out, the responsibility for delay in payment shall be that of the contractor.</p> <p>17.2. 10% advanced will be released after awarding of work order</p> <p>17.3. Deduction shall be made from the bills towards Income Tax at applicable rates and such other taxes, duties, surcharge Cess etc. imposed by the Government as may be applicable to this contract & shall be borne by contractor.</p> <p>17.4. Deduction of 10% against advance paid</p> <p>17.5. Deduction of 05 % of supply amount against the erection, which will be paid after completion of erection.</p> <p>17.6. Deduction of 05 % of supply amount against the testing & commissioning, which will be paid after completion of testing & commissioning.</p> <p>17.7. If the company is not satisfied with the performance and quality of work, the company reserves the right to off load the job and get the same done through other agency at the cost and consequences of the contractor.</p> <p>18. <u>LIQUIDATED DAMAGES :</u></p>		
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In case the VENDOR fails to successfully commission the equipment / plant within agreed completion date with the PURCHASER for reasons attributable to VENDOR, the PURCHASER may without any prejudice to all its other remedies of the contract shall deduct from contract price as liquidated damages, a sum equivalent to 1.25% of total contract value for each week of delay until successful commissioning, subject to a maximum deduction of 5% of the total contract value. Once the maximum is reached, PURCHASER reserves the right to terminate the contract pursuant to clause mentioned elsewhere in the tender and proceed for risk and cost purchase.

19. ARBITRATION

Any dispute or differences arising out of the contract which cannot be amicably & Settled between the Bidder and the Owner shall be decided as per arbitration rules of Indian Arbitration Conciliation Act, 1996.

In the event of any dispute arising between NEPA and the Bidder in any matter covered by this contract or arising directly or indirectly there from or connected or concerned with the said contract in any manner of the implementation of any terms and condition of the said contract, the matter shall be referred to the Chairman & Managing Director, NEPA who may himself act as sole arbitrator or may name as sole arbitrator an officer of NEPA notwithstanding the fact that such officer has been directly or indirectly associated with this contract and the provisions of the Indian Arbitration Act, 1996 shall apply to such arbitration. The Bidder expressly agrees that the arbitration proceedings shall be held at Napanagar, Distt. Burhanpur, M.P. The proceeding of arbitration shall be in English language. In case any Bidder wants to take the dispute to a court of law after arbitration award as aforesaid, it is clearly understood that only courts in Madhya Pradesh shall have the jurisdiction.

20. OTHER TERMS & CONDITIONS:

All other terms & conditions, which are not mentioned here in shall be as per Technical & Commercial clarifications, discussions had with you and/ or as agreed.

END OF TECHNICAL BID

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PART 2: PRICE BID
PART-2 A: PRICE BID
SCHEDULE OF LUMP SUM PRICE
(FORM NO. 1)

Sl. No.	Description	UNIT	Amount in INR
1.0	PIT LESS ELECTRONIC IN MOTION WEIGH BRIDGE OF CAPACITY 140 MT ON TURN KEY BASIS INCLUDING CIVIL WORK (inclusive of all taxes, GST, duty, cess & Govt. levy)	Lumpsum price Rs	<div style="border-bottom: 1px solid black; padding-bottom: 5px;"> Rs. in words </div> <div style="padding-top: 5px;"> Rs. in Figures </div>

Notes:

The quoted Lumpsum price/ Year shall also include any other item of work not specifically mentioned above but has been spelt out elsewhere in the tender document and is required for completion of the entire work.

Signature of the Bidder:
Name:
Seal:
Mobile:

PART-2 B: PRICE BID
SUMMARY OF BREAKUP PRICES (FORM 2)

Sl. No.	DESCRIPTION	Amount in INR
	DETAILED BREAK UP OF LUMP SUM PRICE FURNISHED IN FORM NO.1	

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Sl. No.	DESCRIPTION	Amount in INR
A	Description of Work	
1.	Supply Basic amount	
2	Service/Erection Basic Amount	
3	Testing & Commissioning Basic amount	
4	(Total A1+A2+A3)	
B.	Taxes & Duties	
1.	SGST @ _____%	
2.	CGST@ _____%	
3.	IGST@ _____%	
4	Any other	
5	Total (B1+B2+.....+B4)	
D.	TOTAL (A4 + B5)	
E.	Grand Total (*)	

Grand Total in Words:

(*) This should match with the Lump sum Price furnished in Sr. No. - 1.0 of FORM 1

Signature of the Bidder:

Name:

Seal:

Mobile:

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SECURITY DEPOSIT BANK GUARANTEE

(To be issued by a scheduled Bank on non-judicial stamp paper of Rs.200/-)

Ref: No..... Bank Guarantee No.....Dated.....

To,

Nepa Limited

Nepanagar,

Burhanpur District,

Madhya Pradesh – 450221, India.

Dear Sirs,

1. In consideration of Nepa Ltd, incorporated under the companies Act, 1956, having its registered office at Nepanagar, Burhanpur District, Madhya Pradesh- 450221, India, hereinafter referred to as Nepa, which expression shall, unless repugnant to the context or meaning thereof, include all its successors, administrators, executors and assignees) having entered into a contract No.....dated.....(Hereinafter called ‘the Contract’ which expression shall, include all the amendment thereto) with M/s.....having its registered / Head Office at (hereinafter referred to as the “contractor”) which expression shall, unless repugnant to the context or meaning thereof include all its successors, administrators, executors and assignees) and Nepa having requested that the contractor shall furnish to Nepa a bank guarantee for Rs.for the faithful performance of the entire contract.
2. We (name of the Bank) registered under the laws of having head / registered office at (Hereinafter referred to as “the Bank”, which expression shall, unless repugnant to the context or meaning thereof, include all its successors, administrators, executors and permitted assignees) do hereby guarantee and undertake to pay immediately on first demand in writing any / all moneys to the extent of Rs. (in figures) Rupees (in words)) without any demur, reservation, contest or protest and / or without any reference to the contractor . Any such demand made by Nepa on the Bank by serving a written notice shall be conclusive and binding without any proof, on the bank as regards the amount due and payable, notwithstanding any dispute(s) pending before any court, Tribunal, Arbitrator or any other authority and / or any other matter or thing whatsoever, as liability under these presents being absolute and unequivocal. We agree that the guarantee herein contained shall be irrevocable and shall continue to be enforceable until it is discharged by Nepa in writing. This guarantee shall not be determined, discharged or affected by liquidation, winding up, dissolution or insolvency of the contractor and shall remain valid, binding and operative against the Bank.
3. The Bank also agree that Nepa at its option shall be entitled to enforce this guarantee against the bank as a principal debtor, in the first instance, without proceeding against the contractor and not withstanding any security or other guarantee that Nepa may have in relation to the contractor’s liabilities.
4. The Bank further agrees that Nepa shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said contract or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time exercise of any of the powers vested in Nepa against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act or omission on the part of Nepa or any indulgence by Nepa to the said contractor(s) or any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

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5. This guarantee shall expire on at the latest without prejudice to your claim or claims arisen and demanded from otherwise notified to us in writing on or before the said date. Should it be necessary to extend this guarantee beyond the said date, we undertake to extend the period of this guarantee on your request till such time as may be reasonably required.
6. The Bank further agrees that guarantee herein contained shall remain in full force during the period that is taken for the performance of the contract and all dues of Nepa under or by virtue of this contract have been fully paid and its claim satisfied or discharged or till Nepa discharges this guarantee in writing, whichever is earlier.
7. This guarantee shall not be discharged by any change in our constitution, in the constitution of Nepa or that of the contractor.
8. The Bank also agrees that this guarantee shall be governed and construed in accordance with Indian Laws and subject to the exclusive jurisdiction of Indian Courts of the place from where the purchase order has been placed.
9. Notwithstanding anything contained herein above, the bank's liability under this guarantee is limited to Rs. (in figures)Rupees (in words).....and the guarantee shall remain in force until (indicate the date of expiry of bank guarantee)

In witness whereof, the Bank through its authorized officer has set its hand and stamp on this day of at

.....
(Signature)

Full name, designation and Address (In legible letters) with bank stamp

Attorney as per Power of

Attorney No.-----

Dated-----

WITNESS No 1

(Signature)

Full name and official address
(In legible letters)

WITNESS No 2

(Signature)

Full name and official address
(In legible letters).

Note- 1) Bank Guarantee should be executed on Non-judicial stamp of Rs.200/- or as

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- applicable in Madhya Pradesh.
2) Revenue Stamp of One Rupee, duly signed & sealed, should be affixed on B.G.

*****END*****