

J & K MINERALS LIMITED
(A J&K Government Undertaking)
5th Floor, Jawaharlal Nehru Udhog Bhawan
Rail Head Complex, Jammu.



TENDER DOCUMENT
FOR
SUPPLY OF WEIGH BRIDGE
TO
PARLANKA GYPSUM PROJECT
DISTRICT RAMBAN (J&K)

NIT NO: Mgr (P&S)/J/16-1336

DT: 01.03.2016

DUE ON: 26.3.2016

CHAPTER I

SCOPE OF SUPPLY

FOR

WEIGH BRIDGE

SCOPE OF SUPPLY IS AS UNDER:

Design, manufacturing, testing, inspection, supply, erection, Commissioning and stamping of 60 MT Pit-less Type Electronic Road weighbridge complete with kit, Indicator, load cells, platform, LED display, P.C, Printer, UPS etc. with Manufacturers test certificates and Third party Inspection as per the technical specification and technical data sheet. The entire job is to be undertaken on Turnkey basis covering mechanical, civil & Electrical works including supply of all required material for civil construction & electrical works.

Bidder shall possess the requisite manufacturing & testing facilities and experience & expertise to manufacture and supply the weigh bridge.

Address of location where materials are to be supplied as under:

**J&K Minerals Ltd.,
Gypsum Project,
Village: Sumerbhadog, Parlanka,
District: Ramban (Jammu Division)
State: Jammu & Kashmir.**

CONTACT: Manager (P&S). Mr. G.N.Chechi. + 919419122689.

DELIVERY PERIOD:

Delivery period shall be as under:

01 (one) month and maximum 2 (two) months from the date of fax of LOI.

CHAPTER II
TECHNICAL SPECIFICATIONS
FOR
WEIGH BRIDGE

TECHNICAL SPECIFICATIONS FOR WEIGHBRIDGE

SCOPE OF WORK

Design, fabrication, Supply, Installation, testing and commissioning of 1 No 60 MT (9m x 3 m) pit less type computerized weigh bridge conforming to BIS 9281 of 1979 with upto date amendments at Gypsum Project Parlanka, Ramban.

1. SPECIFICATION:

| S.No: | Specification of weigh bridge | Weigh bearing capacity (MT) | No. to be installed | No. of load cell |
|-------|-------------------------------|-----------------------------|---------------------|------------------|
| 1. | 9m x 3m | 60 | 1 | 6(six) |

1.1 PLATFORM:

| S.No: | Platform Size | Indian Standard Steel Beam to be used. | Thickness of Non-skid Plate. |
|-------|---------------|--|------------------------------|
| 1. | 9m x 3m | ISHB 400 mm | 12mm |

Indian Standard Steel Beams shall be of SAIL/ TISCO/ Standard quality/reputed make & conforming to IS2062. The platform should be fully welded structure and shall remain unaffected by the natural expansion, contraction & free from shocks through sudden loading. The platform should be as per the drawings submitted with offer.

| <u>1.2</u> | <u>Load Cell</u> | |
|------------|-----------------------|--|
| i. | Type | Double ended shear beam type made of tool steel |
| ii. | Brand | Reputed Brand conforming to relevant BIS specification |
| iii. | Standard capacity | 30 tons |
| iv. | Excitation voltage | 15 VDC |
| v. | Nominal output | 2.0 m V/V |
| vi. | Non-Linearity | <+0.017%FSO |
| vii. | Hysteresis | <+0.02% FSO |
| viii. | Non-repeatability | <+0.01% FSO |
| ix. | Input resistance | 770 +20 Ohms |
| x. | Output resistance | 700 +7.0 Ohms |
| xi. | Insulation resistance | >5000 Mega Ohms at 50 VDC |
| xii. | Safe overload | 150% of Rated capacity |
| xiii. | Ultimate overload | 300% of Rated capacity |
| xiv. | Temperature | (-) 35-60 C |
| xv. | Construction | Hermetically sealed to IP68 |
| xvi. | Protection class | IP68 |
| xvii. | Load cell cable | Integrated cable as per site condition |
| xviii. | Accuracy | 0.010% alongwith 14000 counts resolution |

The load cell shall have inbuilt protection against stray electric currents and lightning, surge and extra protection by providing Hylum Pads.

| | | |
|--------|--|--|
| 1.3 | Digital Weight Indicator | |
| i. | Micro processor | Standard quality/reputed make. |
| ii. | Power supply | Linear mode with EMI/RFI Filter and spike suppressor |
| iii. | Protection | a) Electromagnetic interference EMI/ Radio frequency interference RFI. b) Spike suppressor for input transient's electrical device inserted in a power line to protect equipment from sudden fluctuations in current. |
| iv. | Display | 20 character X 2 lines LCD/ LED display with back light for data entry and display of weight, date and time. |
| v. | Remote display port | 7 digit bright red LED display. |
| vi. | Serial Ports | a) RS-232 C-communication to a PC. b) BCD Port-sending data to Remote display port. |
| vii. | Weight Record Storage | 1530 Records, depending on options programmed. |
| viii. | Consolidated Reports | Date wise and all 5 entry wise for full & pending report |
| ix. | Fuse | FI fuse 200 m A for AC power in |
| x. | Indication | Buzzer for fault and data entry. |
| xi. | Load Cell excitation | 10V @ 300m A (8 Load cells of 350 Ohms). |
| xii. | Analog signal Range/ Signal per unit weight | 1 mv to 3mv |
| xiii. | Printer interference | Standard parallel output interference. |
| xiv. | Working environment | a) Power supply 180 -240 VAC 49-51Hz. b) Operating temp. 0-50°C. c) RH ≤ 95% non-condensing |
| xv. | Computer system | PC with following configuration and make: Processor should be Pentium i5, 4 GB RAM, 500 GB SATA HDD/18.5" screen, TFT display with optical mouse, USB/ port, DVD ROM with latest window and antivirus preloaded with relevant software for data management, transfer and storage etc. Make- HP |
| xvi. | Printer | 9-Pin, 80 Col Dot. Matrix Printer TVSE/ Epson/ Standard quality /reputed make |
| xvii. | Electronic systems | a) System shall be plug in type. b) It shall be provided with diagnostic card for checking of information without having a test run of truck over the weighbridge. |
| xviii. | Auto calibration | Automatic method of calibration and capacity to compensate changes due to minor structural changes shall be incorporated. |
| xix. | System calibration | The arrangement should be such that calibration is required once in a year. |
| xx. | Accuracy | Accuracy shall be within the limits acceptable to weights & Measures deptt. |
| xxi. | Resolution | Resolution shall be within the limits acceptable to weights & Measures deptt |

| | | |
|-----|---------------------------------------|---|
| 1.3 | JUNCTION BOX | Fully moulded junction box with an IP-65 protection. The entire system should be protected with surge protection circuit. This ensures total protection from lightening and other electrical surges. |
| 1.4 | OUTDOOR DISPLAY | 7 Segment LED display provided with a BCD port |
| 1.5 | UPS | <ul style="list-style-type: none"> i) 1 KVA double battery UPS with inbuilt spike suppressor. ii) ONLINE and Offline type. iii) Based on high frequency PWM solid state technology. iv) Able to work on input voltage of 170V to 300 V AC. v) Output voltage as per equipments requirement - to be specified. vi) Maintenance free battery Exide/equivalent make for 8 hours back-up. vii) Auto cut off when input voltage exceeds permissible limits. viii) Inbuilt Lightening protection. |
| 1.6 | CVT | 1 KVA CVT of standard quality /reputed make as per the requirement of equipment. |
| 1.7 | Software for weigh-bridge management. | User friendly software for processing data date wise, truck-wise challanwise, shiftwise, customer wise etc for generation of daily, weekly & monthly report as per our requirement. All the required information for developing the Software shall be provided by this organization. |
| | | |

NOTE:

All the electrical, electronic equipments must be installed with proper earthing arrangements, besides laying of underground pipes and conduits for cabling/connecting the equipments in control cabin with the load cells.

Intending tenderers is free to provide any other detail which is deemed relevant by them alongwith the justification.

Material/components used in the weigh bridges and other equipment should be of standard quality/reputed make conforming to relevant BIS specification 9281-1979 with upto date amendments. The weigh bridge should conform to Indian weights & Measures Regulations.

CHAPTER III

TERMS AND CONDITIONS OF NIT

FOR

WEIGH BRIDGE

TERMS & CONDITIONS:

1. SUBMISSION OF TENDERS.

i) The tender(s) should be addressed to the Managing Director, J&K Minerals Limited, Jawaharlal Nehru Udhyog Bhawan, Rail Head Complex, Jammu and should reach his office by or before **26.3.2016** till 4.00 p.m.

ii) The tenders shall be submitted under two cover system as cover 1st and cover 2nd as under:-

Cover 1st:- Shall contain Earnest Money Deposit in the shape of CDR/FDR or Bank Guarantee and technical specifications and cost of tender document (Rs1000.00) in the shape of Demand Draft favouring FA&CAO, JKML, in case tender document is downloaded from website of the corporation.

Cover 2nd:- Shall contain price bid. The sealed envelope containing both the two covers should be super-subscribed as **“TENDER FOR ELECTRONIC WEIGHBRIDGE”**.

iii) Conditional tenders such as “Subject to market fluctuations” etc shall be rejected.

2. OPENING OF TENDERS:

1st cover of the offers received shall be opened by the Tender opening committee (TOC) on **28.3.2016** at 4.00 p.m or any other subsequent date convenient to the TOC in presence of tenderer(s) who may wish to remain present at the time of opening of tenders. After scrutiny of 1st cover, price bids (i.e. 2nd cover) of qualified/eligible tenderers shall be opened.

3. TENDER ACCEPTANCE:

The acceptance/approval of the tender will rest with the Managing Director, J&K Minerals Limited, Udhyog Bhawan, Jammu who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all of the tenders received without assigning any reason(s). Conditional tenders shall be outrightly rejected.

The Managing Director, J&K Minerals Limited, Udhyog Bhawan, Jammu also reserves the right of accepting the whole or any part of the tenders received and the tenderers shall be bound to perform the same at the quoted rates.

4. COMPLETION TIME:

The complete job, preferably, on turnkey basis shall be completed within 30 days maximum 60 days from the date of issue of letter of intent/ work order.

5. RATES:

The rates quoted shall be FOR site, which will include the cost of transportation of materials to the site, storage and security at site, all handling charges at site, incidental expenses and all taxes i.e. entry tax, VAT, service tax, Income tax etc.

Interested parties shall quote rates for Supply /installation / commissioning and civil works for construction of foundation (alongwith required material) separately.

6. PRICE ESCALATION:

No cost escalation on any account shall be entertained in the quoted rates and the rates quoted shall be firm and final and shall remain valid till the completion of the contract.

7. INCOME TAX AND SERVICE TAX:

Service Tax and Income Tax as applicable under law shall be deducted from total value of the contract.

8. PRE DESPATCH TESTING / INSPECTION (THIRD PARTY INSPECTION).

The pre-dispatch testing / inspection of the equipment shall be got done by the third party i.e. M/S RITES. The charges for the same shall be borne by the firm in the first instance which shall subsequently be reimbursed by the Corporation.

9. TERMS OF PAYMENT:

The payment of the contractor shall be released as under:

- i) 80% payment shall be made after supply of material duly inspected by M/S RITES, at site and verification thereof by Competent Authority.
- ii) 10% payment shall be made after successful testing/installation and commissioning of complete job.
- iii) 10% shall be kept as deposit and shall be released after successful completion of the warranty period of 18 months or against bank guarantee of equivalent amount.

11. EARNEST MONEY:

- i) The earnest money deposit amounting to Rs.50000 (Rupees fifty thousand only) shall be in the form of CDR/FDR of a nationalized /scheduled Bank having branch in Jammu issued in favour of Financial Advisor & Chief Accounts Officer, J&K Minerals Limited, Udhog Bhawan, Jammu. The CDR /FDR shall be valid for 12 months or more after the last date of receipt of bids or after the submission of performance security whichever is later.
- ii) The Bid not accompanied by an Earnest Money shall be out rightly rejected.
- iii) If in case contractor failed to start/complete the work, within the stipulated time period, his CDR/Earnest Money shall be forfeited after termination of the contract. Besides defaulting contractor shall be debarred from taking works in the Department at least for one year.
- iv) Earnest money deposit shall be released after successful completion of the contract and verification by the competent authority. However, the earnest money of unsuccessful tenderers shall be released after finalization of the tender.

12. PENALTY:

In the event of contractors failure, neglecting declining or delaying the supplies/installation or in the event of any damage occurring or being caused or in the event of any default or failure in complying with any of the terms and conditions of the contract, the corporation shall with or without prejudice any other remedy available to it under any law for the time being in force in the State:

- a) Terminate the contract after 10 days notice.
- b) Recover the amount of loss caused by damage failure or default including the consequential damage as may be determined by the department and /or
- c) Recover the extra cost, if any, involved in allotting the contract to other party and /or
- d) Impose a penalty in form of liquidated damage on accounts of delay beyond the scheduled delivery period subject to 0.25% value of the contract per fortnight and not exceeding 5% value of the contract and/or
- e) Forfeiture of earnest money/security deposit.

13. WARRANTY PERIOD:

18 months after successful installation, testing and commissioning of the complete job.

14. INDEMNITY:

The contractor shall make the corporation harmless and shall settle all compensation claims arising as a result of accidents/ natural calamity etc. aforesaid during the execution of the works at his own cost.

15. DAMAGE TO WORKS DURING OR AFTER EXECUTION:

If the contractor or his workers break, deface, injure or destroy any part of the structure or other property in the vicinity of the works belonging to any person in or on which they may be working, such structure, road kerbs, embankments, fence enclosure, water pipes, cables, drains, electrical or telephone posts, or wares, trees, grass or grassland or cultivated ground contiguous to the premises on which the work or any part of it is being executed shall make the same good at his own cost and in default, the Engineer-in-charge shall cause the same to be made good and deduct the cost thereof from any sums that may due to the contractor under this contract or from his security deposit for other works under the Department.

16. MATERIALS, PLANTS & APPLIANCES:

The contractor shall arrange at his cost all materials, plants, tools, appliances and temporary works required for the execution of the works.

17. FORCE MAJEURE:

Any failure or omission to carry out the provisions of the contract shall not give rise to any claim by the department or the approved supplier/ contractor one against the other if such failure or omission arises from an "Act of God" which shall include all natural calamities such as fires, earthquakes, floods, hurricanes, strikes, riots, embargoes or from any political or other reasons beyond the control of parties including war, whether declared or not, civil war or a state of insurrection.

18. SUBLETTING:

The contractor shall not assign or sublet the works in whole or part and in case the contractor assigns or sublets the contract or attempt to do so. The contract will be terminated and actions as deemed fit shall be taken by the department.

19. WATCH & WARD OF EQUIPMENT/MATERIAL:

The contractor shall be responsible for the watch and ward of his equipment/materials aforesaid. In case of any loss or damage to the said equipment/material etc. on any account, the contractor shall make good the loss or replace the deteriorated material at his cost and expenses and the department shall in no case be liable to pay any compensation.

20. JURISDICTION OF COURT:

For any dispute arising out of this contract the Hon'ble High court of Jammu & Kashmir at Jammu only shall have jurisdiction.

21. ARBITRATION:

If at any time any doubt, question, dispute or difference whatsoever shall arise between the contractor and the corporation upon or in relation to or in connection with the contract, either of the parties may give the other notice in writing of the existence of such doubt, question, dispute or difference and the same shall be referred to the Managing Director, JKML for arbitration under the Jammu and Kashmir arbitration Act and all rules framed there under. The decision of the arbitration thereon shall be final, conclusive and binding upon the

parties. The contractor shall not delay the carrying out of the works or any part thereof by reason of any reference to arbitration and shall proceed with the works with due diligence and shall until decision of the arbitrator abide by the decision of the Managing Director or his representative duly conveyed by him.

22. INSURANCE:

The contractor shall at the time of execution of the agreement insure at his cost the works and keep them insure until the virtual completion and taking over of the works by the Department against accident, loss or damage by fire, flood, earthquake etc in any office to be approved by the department in the joint name of the former being placed first in the policy for the amount of works.

23. DEFECT LIABILITY PERIOD:

Any defects developed within defect liability period of 18 months from the date of completion will have to be rectified by the contractor. In case of failure to do so, management of JKML shall get the rectification work done by some other agency at the risk and cost of the contractor. The rectification of such defects shall be taken immediately on receipt of written notice of Corporation and such defects may extend "Liability Period" if these are not taken up immediately.

24. TESTING:

All types of routine and other tests shall be carried out at the works by the contractor or the manufacturers of the components. The corporation shall be free to witness any or all tests if they so desire. On the completion of the installation the contractor shall arrange to carry out various tests in the presence of and to the complete satisfaction of Engineer-in-charge. Any defect or shortcomings found during the tests shall be speedily rectified or made good by the contractor at his own expenses.

25. MAINTENANCE OF THE WEIGHBRIDGE AND TRAINING OF PERSONNEL:

The contractor shall arrange to provide at no extra cost necessary personnel and material to carry out all routine and special maintenance of the plant as required regularly for a period of (18) eighteen months Warranty Period starting from the date of virtual completion of project including weekly inspection by contractor or his technical representative during warranty period.

The contractor shall also train the Department 's personnel to operate the weighbridge and carry out routines checks for a period to Two months from the date of successful commissioning of the machinery. During the period of installation and testing, if found necessary the contractor shall train one personnel at his works at no extra cost to the Department.

26. AFTER SALE SPARE AND SERVICE BACKUP.

Preference shall be given to the firm who has:-

- i. After sale spare and service backup in the state of J&K and are holder of valid license from Weights & Measures Deptt. J&K.
- ii. Successfully supplied and commissioned the good number of weighbridge in other Govt. Deptt. / Institution in the State of J&K.

28. PERFORMANCE GUARANTEE:

The contractor shall guarantee that the weigh bridge 60MT as installed shall perform successfully with specified accuracy as per the specified technical specifications. The contractor shall also guarantee that the performance of various equipments individually shall be as per its designed capacity. Also actual power consumption shall not exceed the quoted rating.

29. AGREEMENT:

The contractor shall have to draw an agreement with the Department within seven (07) days from the date of issue of work order. The agreement should be accompanied with a copy of the work order, each page of which shall be duly stamped and signed by the contractor to form part of the agreement.

SCHEDULE OF QUANTITIES

| Item No. | Description | Qty. | Unit |
|----------|--|------|------|
| 1. | SUPPLY OF 9M X 3M OF 60 MT PITLESS TYPE ELECTRONIC ROAD WEIGHBRIDGE COMPLETE WITH REQUIRED COMPONENTS NAMELY, KIT, INDICATOR, LOAD CELLS, PLATFORM, LED DISPLAY, P.C. PRINTER, UPS ETC. AS PER ATTACHED TECHNICAL SPECIFICATIONS & SCOPE OF SUPPLY. INSTALLATION, CALIBRATION, STAMPING & COMMISSIONING OF WEIGH BRIDGE. | 1 | Each |
| 2. | CONSTRUCTION OF PITLESS FOUNDATION (alongwith required material) | 1 | Each |