

**OFFICE OF THE REGULATED MARKET COMMITTEE, CHANDBALI**

**AT/PO/VIA:- CHANDBALI DIST:- BHADRAK PIN:-756133**

**(Invitation for Tender)**

**Tender Call Notice No:-683**

**Date:-31.08.2019**

1. The ADM Bhadrak –Cum-Chairman RMC Chandbali invite rate Quoted bids in sealed cover from the eligible authenticated suppliers/Farms for establishment of fully electronics type (pitless kind) weighbridge on turnkey basis with 60M.T.capacity at Simulia Sub-Market near Chandbali within two months from the finalization of the bids by signing of agreement by the bidder.
2. The details technical specification of fully electronics weighbridge (type pitless kind) of 60 M.T. capacity & the weighbridge platform should be quality product of TATA/JINDAL and SAIL steel with ancillary infrastructure on turnkey basis with AMC as framed by the OSAM Board Bhubaneswar is attached with this notice separately.
3. The bidder should submit the rate Quoted bid amount taking to the specification & follow the specification strictly at the time of supply and handed over the weighbridge completed in all respect to the RMC within the specified time duration.
4. The bid in sealed envelope should be submitted in the office of the RMC Chandbali before 3 P.M. of dt.16.09.2019 Or by Reg. post which will reach in RMC Office by 3.00P.M. of dt.16.09.2019 The RMC will not entertained any bid received after the time and date fixed and bids will be open at 11.00 A.M on dt. 18.09.2019.
5. The bidder if want may visit the site of installation of weighbridge before submit the bids.
6. No advance amount will be paid to the supplier prior to completion of installation & handing over of weighbridge.
7. The engineers of OSAM Board in Charge of RMC Chandbali will supervise the installation work and the bill amount will be paid to the supplier after verification of technical specification by engineer .
8. At the time of submission of bid the bidder must furnish his Pan card Xerox & last year I.T. return, GST certificate & latest return of GST & copy of valid license/authorization. from legal metrology for supply of weighbridge and his detailed mail address with contact number etc.
9. The success bidder should deposit the E.M.D. 2% of bidding cost in shape of F.D./ T.D pledge in favour of Secretary RMC Chandbali with any Nationalised Bank and it will be release after handing over of weighbridge complete from all respect.
10. 5% of the bill amount will be deduct as security money which will be release to the bidder after one year from installation of weighbridge on complying the defect if any detected within the time period.

**A.D.M. Bhadrak**

**-Cum-**

**Chairman RMC Chandbali**

  
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TECHNICAL SPECIFICATION of fully Electronic weighbridge (Type – Pit less Kind)  
40/50/60 MT capacity with ancillary infrastructure on Turn Key Basis with AMC

1. Electronic lorry weighbridge complete with platform, compression type load cells, digital indicator, recording and printing units.

1.1. Specification of Weighing System

- a. Capacity – 40/50/60 MT electronic static Road weigh bridge
- b. Class – III
- c. Verification scale interval (e) – 10 Kg.
- d. Accuracy – ± 0.05% of the applied load.
- e. Memory – At least 10,000 trucks steering capacity
- f. Display – LED / Fluorescent
- g. Power supply – 230 volt Ac ± 10%; 50cps ± 5% Single phase
- h. Provision of RS 232C/Rs 432 COM ports
- i. Operating temperature range – 0-55°C
- j. Security arrangement must be available with the Machine – Both hardware and software
- k. Six load cells digital type is preferable- Double ended shear beam /compression type ; capacity – 30MT (Minimum)
- l. Machine shall be delivered after certification by L.M.O.
- m. Working Software should be included

1.2. Plat form

The weighing platform of size 10m X3m shall be of chequered or antiskid plates of M.S. 12mm thickness with minimum 5 no of joists of 400 X 140 mm conforming to I.S. specification for 40/50/60 T weigh bridge . Minimum weight of platform (7 MT). The platform may be raised above the ground level for facilitating easy cleaning/maintenance (Max 1.0 Meter). The approach pavement (ramp) to platform shall be developed with cement concrete of M 25 grade on both side of the plat form. The gradient of the CC approach may be made limiting to 5% (1 in 20). Construction of concrete approach (CC of M25) to plat from on both side of plat form with a width of 5.5 mtr. as per the requirement of length at the site is under the scope of the bidder.

1.3. Specification of Digital Indicator

- Capacity : Programmable up to 5 digits (Minimum)
- Increment : Programmable 1.2 or 5 or their multiple
- Display resolution : Maximum 1 in 10000
- Operating Temperature : Maximum +55°C



- **Operating Humidity** : Maximum 93% RH
  - Non Linearity** : 0.016% of full scale or less
  - Repeatability** : 0.016% of applied load
  - Internal Resolution** : Should be adequate to handle the Accuracy level specified for the weighing system.
  - Decimal point selection** : Selectable
  - Communication** : Built in RS 232C.
  - Display type** : LED Display / Fluorescent
- Complete protection against electromagnetic and radio frequency interference.

**1.4. U.P.S.**

Capacity : 2 KVA / on line of reputed brand

**1.5. CVT**

3 KVA , Input : 130-270V, 50Hz+5% Output : 220+2%, 50Hz

**1.6. Personal Computer**

**Desktop Configuration : Intel Corei5 Configuration**

- CPU** : Inter core i5-3470, 3.2 GHz, 6 MB Cache or higher.
- Chipset** : Intel Q77 or better.
- Bus Architecture** : 4 PCI (PCI / PCI Express)
- Memory** : 4GB 1600 MHz DDR RAM with 32 GB Expandability
- HDD** : 500 GB 7200 rpm or higher.
- Monitor** : 47 cm or larger (18.5inch or larger) TFT/LED Digital Colour monitor TCO-05 certified.
- Keyboard** : 104 keys
- Mouse** : Optical with USB interface.
- Ports** : 6 USB Ports including 2 USB 3.0 Ports (with at least 2 in front), audio ports for micro phone and head phone in front.
- Cabinet** : Mini tower
- DVD Drive** : 8x or better DVD ROM drive




**Networking Facility** : 10/100/1000 n board integrated Network port with remote booting facility remote system installation, remote wake up, TPM enable 1.2 chip using any standard management software.

**Operation Systems**

**(In Built)** : Windows 8 professional / preloaded, as specified., with media and documentation and certificate of authenticity.

**OS Certification** : Windows 8 OS certification.

**Power Management** : Screen Blanking, Hard Disk and system idle mode in power on, Set-up password, power supply SMPS Surge protected.

**Preloaded Software** : Latest version of Mc Afee/Quick Heal/Norton Antivirus software.

**Make** : HP/DELL/LENOVO

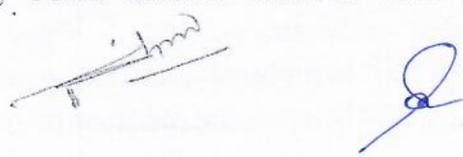
**1.7. Printer**

Laser printer – Resolution (in dpi) : Mono 600 X 600, Paper size : A4, Print speed in PPM(A4size) : 25, Port : 1 USB, Memory (In MB) : NA, Network card 10/100 : Yes, Duplexing : Yes.

**Make** : HP/CANON/SAMSUNG

**1.8. Software and interface requirements :**

- The bidder needs to furnish relevant software interface for interfacing the weigh bridge with the computer systems for data transfer and other required operation such as calibration, testing etc. The systems must use standard serial / parallel / USB interface for communication. The selected bidder will have to ensure the integration of the W.B. to application software which is to be used by the user. The software associated with the weigh bridge should be able to provide standard interface so that the output from the weigh bridge can seamlessly be integrated with any software custom designed or otherwise to be deployed for management /regulation/administration of mineral transport and monitoring.
- The WB software must be user friendly and compatible with Windows – 7 or later versions for operation through GUI interface with total response time (data access and entry time) less than 20 seconds for any weightment transaction. Keyboard shortcuts must be available for the data entry fields with option for navigation using key board shortcut such as TAB key for maximum use of



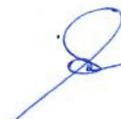
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keyboard during the data entry operation needs to be provided. Format of user interface needs to be customized as per OSAMB requirements.

- Weigh bridge software needs to have facility for interconnected operation in a network environment. Tare weight and gross weight can be taken in any weighbridges which are connected through network. This can facilitate flexible tare weight and gross weight at same or different weighbridges within the interconnected environment.
- It should be possible to schedule the tare weight interval of a vehicle. The tare weight may be required to be taken up either daily, weekly or after a fixed period as per specific sites requirement. This needs to be configurable in the systems. It should be possible to generate loading slips (tare weight slips) from previous tare weight record.
- The system should generate loading slips, way bills, in the users prescribed format without much manual intervention. During generation of the printed slips, the data available in the system should be used to avoid redundant data entry operation.
- Weighment and delivery reports on specific or group of delivery orders, buyers, material, transporter, weighbridge etc. for a specific period indicating details of weighment including the timestamps needs to be generated by the system.
- The software should use multiple printer connected to the same system or multiple network printers available within the network for simultaneous printing. Use of printers needs to be configurable in the software. The systems should have capability to use dot matrix, laser or any other printer for generation of all printouts.
- The system should maintain back up data in specified path (network or local system) for use during failure or breakdown. Backup data to removable storage such as CD and USB drives etc. also needs to be provided for manual backup operation. There should be provision for recovery of the software and database from the backup for uninterrupted operation. Storing of weigh records of at last 12 months for use in future and necessary hardware facility for achieving this shall also remain in built in the computer.
- The weigh bridge software and the database used by the system must be tamperproof with built in authentication for security. All user access to the weigh bridge software should be recorded automatically through audit records.





- The bidder must be able to modify /add or remove features in the software in a reasonable time period as per the recommendation of the competent authority.
- Other standard facilities for electronics Weigh Bridge also need to be available in the system.
- The calibration of the weighbridge should be carried out using software without any manual intervention and the record of all such calibration needs to be automatically generated and stored in the system for internal audit.
- The system should record all startup, shutdown or other important system events for audit.

**2.1. BUNKHOUSE AND OTHER CIVIL WORKS**

The Bunk House should accommodate all the activities such as weighing, challan, identification/destination slips etc. under a single window concept. The related Electrical Switch Gears, Earthing etc. as required shall be installed in the Bunk House by the bidder. The details specifications are given below : M25 concrete ramp of 5.5 mtr Width and required length should be constructed on both sides.

**PARTICULARS OF THE BUNK HOUSE**

**SPECIFICATION :-**

**Room size** : 4m x 3m x 3m of MS prefabricated bunk house type

The cabin structure is to be suitably designed with bottom frame top frame and wall frame made out of colour coated rolled steel sections.

Suitable stiffeners and fasteners are to be provided. Wall panel and roof panel are to be made with 50mm thick PUF panel. The PUF insulation should be sandwiched between 0.5 mm thick pre-coated steel sheets. The PU foam should be CFC free, self extinguishing and fire retardant type having density 40.0 (± 2.0) kg / Cu.m.

The door frame to be made with colour coated pressed steel section using 1.25 mm thick CR sheet.

**Door – 1 no**

Single leaf PUF insulated panel stiffened by M.S. Frame along perimeter. The thickness of the shutter shall be made of 35/40 mm thick.

Windows – 3 nos

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Colour coated aluminum anodized section / steel sections shall be used in frame and shutter. The shutter shall be fully glazed sliding type with 6 mm thick glass.

OR

Sliding type colour coated glazed shutter frame to be provided in the window.

In both cases colour coated M.S. grill to be provided in the window.

Electric wiring – Internal electrical wiring shall be made with 20mm dia / 32mm dia rigid PVC pipe with separate power and light circuit with modular switch /socket.

For light/fan point - 1.5 sq mm. copper wire of Finolex/L & T make.

Earthing - Electrode earthing with copper plate at bottom (600 x 600 x 6mm) -6 nos (One no for building, one no for electrical wiring and two nos for load cell)

Electrification with accessories

The following electrical accessories shall have to be in each Bunl Fuse.

Wire	: Finolex/Havells/L&T make
Modular Switches/Plugs	: Anchor/Havells/Finolex
Holder	: 4 nos (Anchor/Cona) make
5A, Pin plug socket with switch	: 6 nos
40 watt, HPSV fitting with lamp for outside illumination	: 2 nos
Ceiling fan	: 1 no (Phillips/Crompton/Bajaj).
CFL	: 20 watt. Serial type.

Earth Pit for earthing

- Earth pit for load cell
- Earth pit for scale room
- All pit to be inter connected to form a grid.
- Modern readymade earthing electrode with back filled compound to be used for earthing.
- Technology :- Pipe in Pipe Technology. Two mild steel pipes one side the other, Zinc Coated / Copper Coated / Alloy Coated / Hot dip galvanized, filled with high conductive and corrosive resistance crystalline mixture and back filled compound around electrode.(Make ISI approved reputed make)
- Suitable Lightning Arrestors are to be installed for preventing the damage to the weigh bridge due to lightening.

Electrical Connection

The bidder shall make necessary arrangement for undertaking all electrical wiring for power supply arrangements. A detailed schematic diagram needs to be furnished for approval from RMC / OSAM Board within one week from the date of receipt of the Purchase Order. The required Energy Meter for connection of the Bunk House shall be installed by RMC.

AMC of all Weighing Machines should be preferably given to the supplier of the machine to protect the machine longevity and well functioning.

- Ramp -  