



# ODISHA STATE AGRICULTURAL MARKETING BOARD

Plot No.1800 (P), Baramunda, Post-Khandagiri, Near Indian Oil Petrol Pump Bhubaneswar  
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Letter No: 1729/66  
Engg. : 66/2011-12

Dated: 20/08/2019

To,

The Chairpersons  
All Regulated Market Committee in the State.

Sub: Regarding Guideline of Technical Specification and Term & Condition for procurement of Weighbridge.

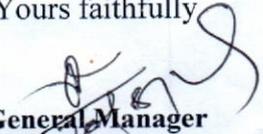
Madam/Sir,

With reference to the subject cited above in the letter under reference and to meet the present situation for requirement installation and commissioning of weighbridges at RMC level for use in Paddy Procurement operation. The Technical Specification along with details Term & Conditions have already been finalized by the Technical Evaluation Committee (TEC), at OSAM Board level is enclosed herewith (Nine Pages) for your ready reference with adhering the following guideline as decided.

After careful consideration RMCs are instructed to strictly ensure and use quality product i.e. Tata Steel, Jindal Steel and SAIL in the weighbridge platform.

1. Prior to procurement of Weighbridge the requirement should be properly assessed and purchase should be made after recommendation of District level Procurement Committee with approval of the concerned Chairman RMC subject to within the budgetary provision in the current year.
2. Procurement of weighbridges as per the approved specifications terms and conditions of TEC either through The Odisha Small Industries Corporation Limited (OSIC), Cuttack or inviting any tendering process by observing due procedure as per the Government norms. Inferior quality by deviating if any approve specification should not be accepted. Concerned Secretary of RMC shall be responsible if any deviation in this regards failing which appropriate action may be initiated against the Secretary of RMC concerned.
3. After Guarantee / Warrantee period is over Annual Maintenance Contract (AMC) of all Weighbridges / Weighing Scales should be preferable given to the supplier of the machine to protect the machine longevity and well functioning. Hence forth if any deviating in this regards serious action shall be taken against the earring official. If at any stage the manufacturer or their authorized Dealer / Supplier do not response to attend repair maintenance work in due time matter may be referred to this office and legal action as deem to be fit shall be initiated by this office against them.
4. After end of each <sup>season</sup> ~~season~~, assessment of Weighbridge be done and reasons for non-functioning be ascertained. Accountability be fixed on supplier / user for any short coming / improper usage at their level respectively.

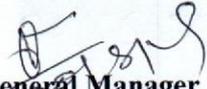
Yours faithfully

  
General Manager  
OSAM Board, Bhubaneswar

Memo No. 1730 (30)

Date 20/08/2019

Copy submitted to All District Magistrate-cum-Collector and Chairperson of District Level Procurement Committee (DLPC) of the state for information and necessary action.

  
General Manager

OSAM Board, Bhubaneswar

Memo No. 1731

Date 20/08/2019

Copy submitted to Controller Legal Metrology, Khandagiri, Odisha for information and necessary action.

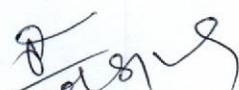
  
General Manager

OSAM Board, Bhubaneswar

Memo No. 1732

Date 20/08/2019

Copy submitted to Managing Director, The Odisha Small Industries Corporation Limited (OSIC), Cuttack for information and necessary action with reference Letter No - 54, Dtd. 03.01.2019 of Joint Manager, The Odisha Small Industries Corporation Limited (OSIC).

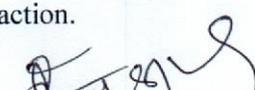
  
General Manager

OSAM Board, Bhubaneswar

Memo No. 1733 (66)

Date 20/08/2019

Copy forwarded to Secretaries of all RMCs in the state for information and necessary action.

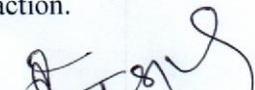
  
General Manager

OSAM Board, Bhubaneswar

Memo No. 1734

Date 20/08/2019

Copy forwarded to Executive Engineer, OSAM Board for information and necessary action.

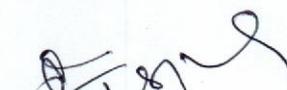
  
General Manager

OSAM Board, Bhubaneswar

Memo No. 1735

Date 20/08/2019

Copy forwarded to all DMOs/Audit Section/Marketing Section/Grading Cell/Engineering Cell of OSAM Board for information and necessary action.

  
General Manager

OSAM Board, Bhubaneswar

Proceedings of the meeting of Technical Committee held on 10.09.2018 at 04.30 PM in the Conference Hall of OSAM Board for finalization of the specification of Electronic Weighing Scale 300 Kg. & 600 Kg. capacity (with printer facility), fully Electronics type (Pitless kind) Weighbridge on turnkey basis with capacity 40 MT, 50 MT & 60 MT, Grading Equipment and Apparatus / Equipment for grading of commodities in the Mandis for e-Marketing.

The meeting of the Technical Committee was convened in the Conference Hall of OSAM Board on 10.09.2018 at 04.30 PM under the Chairmanship of Executive Engineer-II OSAM Board. The following Members were present in the meeting:

- 1. Sri Prafulla Chandra Mishra, Executive Engineer-II - Chairman
- 2. Sri Alok Kumar Sarangi, Marketing Officer, DMI - Member
- 3. Sri Anupam Kumar, Marketing Officer, DMI - Member
- 4. Sri Sushil Kumar Kandulana, A.C.L.M., Khurda - Member
- 5. Sri Rama Chandra Dalai, A.C.L.M., HQ, BBSR - Member
- 6. Sri Pradip Kumar Mallick, Tech. Asst.OSCSC - Member
- 7. Dr. U. S. Pal, CAET, OUAT - Member
- 8. Sri Asirbad Mohanty, AEE, OSAM Board - Member
- 9. Sri Yudhisthira Das, Audit Supdt., OSAMB - Member

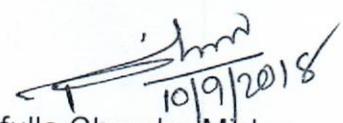
The Executive Engineer-II-cum-Chairman, Technical Committee, OSAM Board at the outset apprised the Members that the very purpose of the meeting is to finalize the tender specification of Electronic Weighing Scale 300 Kg. & 600 Kg. capacity (with printer facility), fully Electronics type (Pitless kind) Weighbridge on turnkey basis with capacity 40 MT, 50 MT and 60 MT, Grading Equipment like Mini Seed Grader, Set of Sieves, Digital Moisture Meter, Analysis Kit, Dial Micrometer and Sample Divider (Boerner type) and Apparatus / Equipment for providing e-Marketing facility in the Market Yard and called upon them to examine the existing specifications prepared earlier and recommend suitable specification for procurement.

After a thread bar discussion, the Asst. Controller of Legal Metrology, Odisha, Bhubaneswar and Asst. Controller, Legal Metrology, Khurda were prepared a final specification for the Electronic Weighing Scale 300 Kg. & 600 Kg. capacity (with printer facility) and fully Electronics type (Pitless kind) Weighbridge on turnkey basis with capacity 40 MT, 50 MT and 60 MT which was unanimously accepted by the Technical Committee. Further, the Technical Committee suggested for AMC of the Weighing Machine and should be assigned to the original supplier of the machine in order to protect the longevity of the machine and for better functioning.

The Technical Asst., Quality Control Cell of Odisha State Civil Supplies Corporation Ltd., Bhubaneswar and the representative of Dean, Agriculture Engineering, OUAT as special invitee also examine the existing specification of Grading Equipment like Mini Seed Grader, Set of Sieves, Digital Moisture Meter, Analysis Kit, Dial Micrometer and Sample Divider (Boerner type) and finally prepared specifications which were unanimously accepted by the Technical Committee.

The Marketing Officers, DMI, Govt. of India, Bhubaneswar opined that, the DMI, Govt. of India have already finalized the specification of apparatus / equipment required for grading of commodities under 47 additional e-Marketing facilities. The specification of Grading Equipment finalized by the Committee is in conformity <sup>with</sup> the specification given by DMI.

The meeting ended with vote of thanks to the Chair.



Prafulla Chandra Mishra,  
Executive Engineer-II-cum-Chairman,  
Technical Committee, OSAM Board.

**TECHNICAL SPECIFICATION OF ELECTRONIC WEIGHING SCALE 300Kg.  
CAPACITY (With Printer facility)**

Sl. No.	Specification
1	Minimum weight of the machine 30Kg.
2	Weighing Capacity – 300 Kg. maximum, 1 Kg. minimum e=50 g.(least count)
3	Accuracy classes – Class-III
4	Platform size – 60 cm x 60 cm
5	Platform-Powder coated frame and stainless steel platter (202 grade & above)
6	Indicator / Display – LED/LCD display screen
7	In case of printer facility, the machine should have computer interface and printing facility with memory in the printer.
8	Load Cell : The load cell must be overload and shock protection. Connecting wires from base to head should be rat protection.
9	Battery – Minimum 12 hours & above Battery Backup. Battery housing should be separated and should be replaced without breaking seal of Inspector Legal Metrology.
10	With both software and hardware locking facility. Provision for seal of Inspector Legal Metrology
11	Overload 600 Kg. & above
12	Model approval : Weighing Scale have model approval certificate from competent authority from Govt. of India
13	Machines shall be delivered after certification by LMO.

**TECHNICAL SPECIFICATION OF ELECTRONIC WEIGHING SCALE 600Kg.  
CAPACITY (With Printer facility)**

Sl. No.	Specification
1	Minimum weight of the machine 40 Kg. and above
2	Weighing Capacity – 600 Kg. maximum, 2Kg. minimum e(least count): =100 g.
3	Accuracy classes – Class-III
4	Platform size – 750 mm x 750 mm / 700 mm x 800 mm
5	Platform-Powder coated frame and stainless steel platter (202 grade & above)
6	Indicator / Display – LED/LCD display screen
7	In case of printer facility, the machine should have computer interface and printing facility with memory in the printer
8	Load Cell : The load cell must be overload and shock protection. Connecting wires from base to head should be rat protection.
9	Battery – Minimum 12 hours & above Battery Backup. Battery housing should be separated and should be replaced without breaking seal of Inspector Legal Metrology.
10	With both software and hardware locking facility. Provision for seal of Inspector Legal Metrology
11	Overload 1000 Kg. & above
12	Model approval : Weighing Scale have model approval certificate from competent authority from Govt. of India
13	Machines shall be delivered after certification by LMO.

**N.B. :** The AMC of the Weighing Machine should be given to the original supplier of the machine to protect the longevity of the machine and well-functioning.

**TECHNICAL SPECIFICATION of fully Electronic weighbridge (Type – Pit less Kind)**

**●/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**

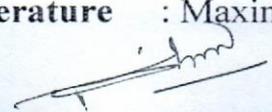
- a. Capacity – 40/50/60 MT electronic static Road weigh bridge
- b. Class – III
- c. Verification scale interval (e) – 10 Kg.
- d. Accuracy – ± 0.05% of the applied load.
- e. Memory – At least 10,000 trucks steering capacity
- f. Display – LED / Fluorescent
- g. Power supply – 230 volt Ac ± 10%; 50cps ±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.

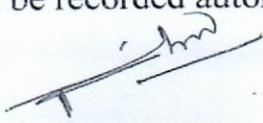
**Make** : HP/CANON/SAMSUNG

**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

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 weighment 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 side.

**PARTICULARS OF THE BUNK HOUSE**

**SPECIFICATION :-**

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

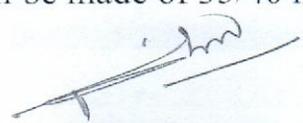
The cabin structure is to be suitably designed with bottom frame top frame and wall frame made out of colour coated rolled steel sections.

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**

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 on for electrical wiring and two nos for load cell)

**Electrification with accessories**

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

- 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.

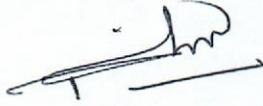
**Earth Pit for earthing**

- 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 lightning.

**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 - 

**TECHNICAL SPECIFICATION OF MINI SEED GRADER**

Sl. No.	Specifications
1	Laboratory Model
2	Commodity : Paddy, Pulses
3	Operating Voltage : 220 Volt, 50 Hz.A.C.
4	Screen area : 29 x 24 cm 23pprox..
5	Screen provided : Set of 10 Sieves
6	Sieve sizes (mm): 3.5 OH, 2.75 OH, 2.0 OH, 1.85 OH, 1.75 OH , 1.5 OH, 7.0 RH, 5.0 RH, 1.6 RH and 1.2 RH (OH-Oblong Hole and RH - Round Hole)
7	No. of working screen : Two
8	Motor: ½ HP Single Phase (ISI Standard)
9	Operation : Manual, Power
10	Adjustable feed control, Air speed regulator, Stainless Steel Sieve
11	Made of teak wood and ply.

**TECHNICAL SPECIFICATION OF SET OF SIEVES**

Sl. No.	Specifications
1	Set of Sieves (4 nos. with collecting pan and lid made up of brass)
2	Sieve Size – 4 mm – 1 no. 3.35 mm - 1no. 1.7 mm - 1 no 1 mm – 1 no. Dust collector – 1 no.
3	Solid Bottom Pan – 1 no.
4	Lid – 1 no.

**TECHNICAL SPECIFICATION OF DIGITAL MOISTURE METER**

Sl. No.	Specifications
1	Measuring Range: 3.5% to 40%
2	Supply Voltage : 9V DC
3	Temperature Compensation : Automatic calibration & error correction facility
4	Display : Digital LCD / LED
5	Error condition display for over Range or under range : $\pm 0.2\%$
6	Commodity : Cereals, Pulses, Oil Seeds
7	Operating Temperature : Ambient to 50° C

**TECHNICAL SPECIFICATION OF ANALYSIS BOX / KIT**

Sl. No.	Specification
1.	Analysis Box / Kit consists of Class 'B' Mechanical Weighing Balance up to 100 gm. Weight box consist of set of verified weights up to 100 gms. Enamelled Plate-9", Parkhi-9", Sieve-3.30 mesh, Magnifying Glass-1.5" (Magnification of 10X), Vernier / Micrometer, Palm Paddy De-husker, Scoop (With handle, 105 mm x 100 mm x 25 mm, Measuring Cylinder-20 cc., Built-in Purity Work Board for testing physical purity of seeds, Petri Dish & Forceps all packed in a compact wooden / leather brief case, as small, as light and as compact as possible, but as accurate and as reliable.

**TECHNICAL SPECIFICATION OF MICRO METRE**

Sl. No.	Specifications
1	Analog measuring device for measurement of length / breadth of seed. The dial used is as per IS specification.
2	Made of stainless steel
3	Range : 0 – 25 mm
4	Resolution : 0.01 mm
5	Accuracy : 0.005 mm

**TECHNICAL SPECIFICATION OF SEED SAMPLE DIVIDER (BOERNER TYPE)**

Sl. No.	Specifications
1.	Meeting BIS specification
2	No. of Pockets : 38
3	Hopper Capacity : 1 Kg. (minimum)
4	Feature : provides accurate splits of the grain Samples into two equal halves with an accuracy of $\pm 5\%$ on a 1Kg. sample.
5.	Two collecting Pans
6	Copper and Brass Body
7	Made without joint (in material flowing component)

*Dale*  
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Asst. Controller, Legal  
Metrology, Bhubaneswar

*Kd*  
10/09/18  
Sushil Kumar Kandulana  
Asst. Controller, Legal  
Metrology, Khurda

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Dr. U. S. Pal  
CAET, Representative, Dean,  
Agriculture Engineering, OUAT

Pradeep Ku. Mallick,  
Technical Asst., OSCSC  
Ltd., Bhubaneswar

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Marketing Officer, DMI,  
Bhubaneswar

*Anupam*  
10/9/18  
Anupam Kumar,  
Marketing Officer, DMI,  
Bhubaneswar

*Pr*  
10/9/2018  
Prafulla Chandra Mishra,  
Executive Engineer-II-cum-  
Chairman, Technical  
Committee, OSAM Board

*Asirbad*  
10/9/18  
Asirbad Mohanty,  
Asst. Executive Engineer,  
OSAM Board

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10/9/18  
Yudhisthira Das.  
Audit Superintendent,  
OSAM Board

*P. C. Saha*  
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