

**TERNDER DOCUMENT  
FOR  
SUPPLY, INSTALLATION, TESTING AND COMMISSIONING  
AND  
TRIAL RUN  
OF  
30MT CAPACITY ELECTRONIC ROAD WEIGHBRIDGES  
AT  
TIRTOL DAIRY**



**THE ORISSA STATE CO-OPERATIVE MILK PRODUCERS' FEDERATION LTD.  
BHUBANESWAR -751007**

**March - 2024**

**Cost Rs.6,000/- + 18 % GST**

## TABLE OF CONTENTS

<b>SECTION</b>	<b>SUBJECT</b>	<b>PAGE</b>
I	TENDER NOTICE	03
II	GENERAL INFORMATION	04
III	TECHNICAL DATA SHEET	12
IV	DETAILED TECHNICAL SPECIFICATIONS	15
V	SCHEDULE OF QUANTITIES (PRICE BID)	25
VI	REFERENCE DRAWING (TENDER PURPOSE)	31
VII	BANK GUARANTEE FORMAT	34



[www.omfed.com](http://www.omfed.com)

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### **TENDER CALL NOTICE**

OMFED invites sealed techno-commercial offer in separate envelope from Manufactures/ Authorised Dealers/ Distributors having adequate exposure for Supply, Installation, testing commissioning & trail run of 30MT capacity Road Weigh Bridge at Tirtol Dairy of OMFED on turnkey basis. **Tender documents can be downloaded from OMFED website from dt.01.03.2024 to 03.04.2024. EMD amounting to Rs.30,000/- and paper cost amounting to Rs.6000+18% GST in shape of DD in favor of Omfed payable at Bhubaneswar drawn on any Nationalised Bank should be submitted with the technical bid.** The filled in sealed offer along with EMD & paper cost shall be received up to 1400 Hrs on dt.03.04.2024 and shall be opened on the same day at 1500 Hrs at the above addressed office in presence of interested bidder. For details please visit our website [www.omfed.com](http://www.omfed.com).

The corrigendum if required shall be published only in the omfed website and shall not be published in the new paper once again.

OMFED reserves the right to accept or reject any or all the tenders or part thereof without assigning any reason.

**MANAGING DIRECTOR**

## **SECTION II**

### **GENERAL INFORMATION**

**1.0 NAME OF WORK** : SUPPLY AND INSTALLATION ONE NO 30 MT CAPACITY WEIGH BRIDGE HAVING PLATFORM SIZE 6 X 3 MTR. FOR WEIGHMENT

### **2.0 LOCATIONS AND AREA**

**Tirtol Dairy** : **At- Tirtol, Block- Nuapda, Dist- Jagatsinghpur.**

### **3.0 Period of Completion**

The period of completion, including supply, installation, testing, commissioning, trial run including statutory inspection, and handing over, shall be **Six Months** from the date of acceptance of award, which shall include the non-working periods during monsoon and festivals, and the period of commencement.

### **4.0 Eligibility and Qualification requirements: -**

#### **MANUFACTURER:**

- National/international repute in electronic weighing field.
- More than 20 years' experience in manufacturing electronic weighing machines having own facility to manufacture Load cells & Weight Indicators etc. for the brand manufacturer.
- The average sale Turn Over should be more than 1 (One) crore (copy of Balance Sheet/P/L account should be enclosed) during the financial year 2020-21, 2021-22 & 2022-23.
- ISO 9001/ ISO 14001 certification (copy of certificate should be enclosed)
- Manufacturing License from Legal Metrology authorities (copy should be enclosed)
- Model approval Certificate from Govt. Of India (copy should be enclosed)
- Own facility /Dealers in Orissa to provide after-sales- service having repairing license from L/M, Orissa (copy of repairing license should be enclosed)
- More than 30 installations of any capacity electronic Road Weighbridges in India.
- Service / Maintenance center in Odisha will be given preference.

#### **AUTHORISED DEALERS:**

- Dealers of reputed manufacturers with specifically authorized to quote against this tender.
- Dealership & Repairing License from Legal Metrology authorities, Govt; Of Orissa. Copies of License should be enclosed.

- More than 10 years experience in supply, installation and repairing of electronic Road Weighbridges.
- Successfully completed supply & installation of minimum 10 nos of any capacity Road Weighbridges in Govt. & PSU during last 5 years. (Copies of orders should be enclosed).
- Turn over should be more than 100 lakhs for last three years. (Copy of balance sheet/ P/L account should be enclosed).
- GST Registration Certificate. (Copy should be enclosed)
- IT Return for last three years. (Copy should be enclosed).

#### **5.0 Period of validity of bids**

The tender shall be valid for one years from date of notification, The Bids shall remain valid for one year after the date of bid opening.

#### **6.0 Terms of Payment**

Bills in shape of triplicate shall be submitted with the ordering authority. 70 % of the total order value shall be released after completion of civil work and safe arrival of materials at site. Balance payment shall be released after handing over including statutory inspection and trail run.

#### **7.0 PERFORMANCE SECURITY**

**PERFORMANCE SECURITY @10%** of the total order value shall be retained by OMFED for a period of one year from the date of statutory inspection and shall be released subject to satisfactory performance. The proceeds of the performance security shall be payable to the OMFED as compensation for any loss resulting from the contractor's failure to complete its obligations under the contract.

The successful supplier / Manufacture shall submit Bank Guarantee valid for **15 months** from the expected date of completion of contract from any nationalised bank as per the format provided in the tender document towards Performance Security within 15 days of the receipt of notification of award from OMFED or else PSD @10 % shall be deducted from the bills of the contractor.

Failure of the successful bidder to comply with the requirement shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the OMFED may make the award to the next lowest evaluated bidder or call for new bids.

The performance security will be discharged by the OMFED and returned to the contractor not later than 90 days following the date of completion of the contractor's performance obligations, including any warranty / guarantee obligations, under the contract. No interest shall be paid by the OMFED on the performance security deposit.

## **8.0 Penalty**

If the Contractor fails to achieve completion of the works within the time, then the Contractor shall pay to the OMFED the sum at the rate of 0.5% of the contract value as liquidated damages for such default and any such penalty for every week or part of the week and maximum up to 10% of the order value. The OMFED may without prejudice to any other method of recovery, deduct the amount of such damages from any payment in its hands, due or which may become due to the contract. The payment or deduction of such damages shall not relieve the contractor from his obligation to complete the works, or from any other of his obligations and liabilities under the Contract. However, time extension may be allowed in exceptional adverse climatic conditions, or other special circumstances of any kind whatsoever which may occur, other than through a default of the contractor, be such as fairly to entitle the contractor to an extension of time for the completion of the works. OMFED shall determine the amount of such extension and shall notify the contractor accordingly

## **9.0 Terms and condition**

The supply items shall be cover under one year's guarantee period from date of handing over.

It is mandatory on the part of bidder to quote all prices for civil work, Supply and Installation Electronic Road Weighbridge, Electrical Cabling & Earthing, PC & Weighbridge Interfacing Software and AMC for two years after expiry of guarantee period. The bidders shall arrange for the statutory inspection, test weight during period of AMC. The bidders shall attain to the brake down and visit the site once in a month and submit a report to this effect.

The quantity indicated here is likely vary, though breakup prices have been asked, this is only to facilitate preparation & payment and for evaluation of bids. Additional payments shall not consider at the time of preparation bills. Additional payments shall not consider in case there is any variation in quantity, as total price of bid is on turnkey basis FOR site inclusive of all taxes, duties, work contract tax etc. The price shall be uniform for all designation. (One Rate for all over Odisha, FOR price) All extra or additional work done or work omitted by order of the bidders shall not raise the prices set out of in the contract if in the opinion of the OMFED, the same shall be applicable. If the contract does not contain any rates or prices applicable to the extra or additional work, then prices shall not be considered at the time of settlement of Final Bill.

After one year guarantee period, it is mandatory on the part of the bidder/ supplier to provide AMC for 02 years with salutatory inspection and arrangement of full quantity test weight

The Payments against AMC shall be released after statutory inspection and obtaining of certificate from statutory authority. Omfed will reimburse the cost of spare parts if required during time of AMC period

The civil work shall be executed as per site condition and drawing enclosed in tender documents and approval from omfed. Bidder shall carry all civil

foundations & shall carry out final adjustments of foundations, leveling and dressing of foundation surfaces, bedding and grouting of anchor bolts, bed plates etc, required for seating of equipment in proper position. The Contractor shall be responsible for the reference lines and proper alignment of the equipment. All minor civil works which form and inseparable part of the installation and erection job like digging trenches for laying of cables, conduits and underground pipes, making cut-outs in walls, floors and ceilings for pipelines, adjustment, leveling, dressing and grouting of foundations, grouting of supports are to be carried out: by the Contractor at no extra cost. The necessary refilling/repairs of these cutouts, pockets and trenches shall be done by the Contractor: The Contractor should arrange for laying the supports, cut-outs, grouting of bolts, etc, when the civil works are in progress, so as to avoid refilling/repair works. The damages occurring to civil and other works are to be made good by the Contractor at Contractor's own costs

The bidders shall provide RCC weigh bridge room (control room) of size 6Mtr (Length ) x 3.0 Mtr ( breadth ) x 3.2 Mtr Height. Design & Construction for Civil foundation for mounting Load cells & Horizontal Constrainers and suitable Ramp on both sides of the platform with slope (1: 15) and approach Road up to Ramp is under the scope of Bidder. The control room should be within 100Mtr from the weighing platform

Training for operation and maintenance of the equipments shall be impacted to 2 (two) of operating I maintenance personnel of OMFED for a total period of 2 (Two) weeks at site. The list of operation & maintenance personnel earmarked for training shall be provided by OMFED and the training schedule shall be drawn up jointly. The bidders shall submit 2 (Two) copies of equipment specification Manual, operation manual, maintenance manuals after at the time of handing over.

The weighbridge has to be stamped and verified by the State Department of Legal Metrology, prior to be being put into use by the successful tenderer. The successful tenderer shall arrange to calibrate, test and present the weighbridge to the Weights and Measures Department for necessary stamping & verification. Test weight and manpower required for the stamping purpose will be provided by the tenderer. Necessary stamping fees for the purpose of stamping of the said weighbridge, the tenderer on behalf of OMFED shall submit the necessary application duly filled-in, together with the prescribed fees to the appropriate authorities. However, all the actual statutory fees paid by the Contractor shall be reimbursed by OMFED upon production of receipt. The contractor shall also make all necessary arrangements for inspection of the works by the statutory authorities, as and when required. Cost of all such inspections shall be included in the contract price.

The advice to the bidder should visit the site to acquaint himself in respect of existing site conditions and to know the details/ information required

for understanding the nature and type of civil construction works involved in the project.

Within the time given in the specification, The bidders shall submitted for approval. If at any time before completion of the work, changes are made necessitating revision of approved drawings the contractor shall make such revisions and proceed in the same routine as for the original approval.

**Brief list of drawings:**

- i) Equipment drawings for fabricated items.
- ii) Electrical cable, conduit/cable tray layout.
- iii) Other miscellaneous drawings as required for erection work.

**10. COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT (CAMC)  
SCOPE OF WORK:**

The Comprehensive Annual Maintenance Contract of Road Weighbridge includes checking, repair, Servicing, maintenance of road weighbridge and which shall be handed over to the omfed in working condition.

The Comprehensive AMC also includes replacement of defective parts / subassemblies of the following

- (a) Load Cells
- (b) Digitizer
- (c) PC, VDU
- (d) Printer / Printer head,
- (e) Key Board
- (f) UPS
- (g) CVT/Voltage Stabilizer
- (h) All mechanical items including structural items
- (j) Any other part/component forming part of the Weighbridge
- (j) Calibration and testing as per statutory requirements
- (k) To keep Weighbridge in perfect condition for weighment purpose and
- (l) To monitor the earthings systems duly recorded on monthly basis so that weighbridge is constantly kept in perfect working order for weighment purpose.

**THE OMFED RESPONSIBILITY IS:**

- Providing all consumables like ribbons, computer stationery, and CD.
- Maintenance of air-conditioners with voltage stabilizers.
- Supply and maintenance of batteries.
- Maintenance of efficient earth pit for lighting arrestors to be maintained by the AMC holder.
- Up keep of weigh cabin.
- Maintenance of drainage.
- Maintenance of input power supply



The contractor shall strengthen the earthing and to bring it to the desired level.

The Weighbridges shall be handed over to the contractor with the existing systems in working condition as is where basis is after completion of the warranty period. Contractor will have to continue to provide services for the awarded working Weighbridges consisting of existing digitizer, PC, Software, load cells/ sensors and other accessories irrespective of the make of the same. In case the Contractor feels the need to change any of the above items with their resources while commencing and during the currency of the AMC, the changes/cost of the same will have to be borne by the contractor without any degradation of the performance / weightment of the Weighbridges including its compatibility with the existing system with the consent of the Officer in charge of the Dairy Plant.

The CONTRACTOR should also depute an expert Service Engineers once in every month at site. The technical personnel shall be qualified Diploma / Degree holders in Electronic / Mechanical / Electrical Engineering who is capable to handle the job independently at the quickest possible time

The contractor shall ensure that the technical personnel posted for this purpose make adequate visits to the weighbridges for preventive maintenance / stamping etc.

The service engineer along with technical personnel shall report in person to the Plant manager and apprised about the status of the Weighbridges.

The CONTRACTOR shall also ensure that the technical personnel posted makes regular visits to the Weighbridge site for routine checking and preventive maintenance.

The AMC rates is inclusive of all travel and other expenses of the persons deployed by the CONTRACTOR and are included in the rate of AMC, and no extra payment shall be made on this account.

The COMPANY shall have no responsibility whatsoever of / towards staff / labour deployed by the CONTRACTOR.

That in no manner the COMPANY is liable to the CONTRACTOR or any member of his staff or any other person or to Government or other bodies for injuries or death caused as a result of accidents either within or outside the working areas including siding and Weighbridge in the course of work.

Bidders shall keep the Weighbridge pits cabin and platforms clean and the drainage systems will be kept in working order free from obstruction. In case of any lapses found on this account the CONTRACTOR shall report this matter in their service report and also enter the matter in the register kept for this purpose in the Weigh Cabin which should be maintained by the COMPANY and periodically

checked and signed by the NODAL officer/Engineer-in-charge who should take action for rectification of such problems.

The Bidders shall submit service reports jointly signed by the servicing personnel and the his authorized person of the Area for his record on monthly basis for all the Weighbridges covered under this

Each service report shall include the details of services rendered, the parts / sub-assemblies rectified / replaced, general suggestions if any for upkeep of the Weighbridge and to certify the healthiness before declaring it fit for operation.

On completion of the warranty period, Contractor is required to enter into an agreement with Company on the AMC.

- 11. MAINTENANCE & SPARES DURING GUARANTEE/WARRANTEE PERIOD**  
The bidder has to provide two years warrantee and shall undertake free maintenance during guarantee/warrantee period on the following terms and conditions. During warrantee period it is the responsibility of the bidder to keep the system up and functioning.
- The bidder should give the contact details like email address, phone number, postal address, fax number for intimation regarding service cost.
- The quoted amount should be inclusive of AMC for 2 (Two) years.
- During guarantee/warrantee period of 2(two) years; cost of spares and manpower shall be borne by the supplier. During guarantee/warrantee period of 2 (Two) years travelling expenses for the site visit, cost of accommodation, etc. should be borne by the supplier.
  - The breakdown period of the Weigh Bridge should not exceed 72 hours after the intimation.
  - Every excess day of breakdown of Weigh Bridge will be penalized at Rs.10,000/- per day and will be deducted from the Performance Security of the vender.
  - The 2 (two) years Free maintenance warranty period should start from the date of successful commissioning.
- 13. SOS**  
The compulsory requirement to attend to complaints on SOS basis, within 24 hours of call should be taken into consideration by the bidders. This requirement will also be there post warranty under AMC with the supplier.
- 14. Accommodation**  
Bidder has to make his own arrangement for boarding, lodging and transportation at site during commissioning and thereafter, during after sales service visits.

**15. SCOPE OF WORK AND BATTERY LIMIT.**

1. Study and analysis of the proposed site for installation of the weighbridges.
2. Design of foundation plan for the weighbridges, RCC weigh bridge control room, Approach road and RCC ramp to the load cell complete with layout drawings taking into consideration space limitations should be submitted within 7 days of placement of PO.
3. Supervision of Erection, testing and commissioning.
4. Stamping and test reports of the weighbridges to be provided by the supplier.
5. Cable layout and connections.
6. Onsite training to departmental staff for normal operation, basic familiarization, and trouble shooting and general features of the installed system during that period.
7. The supplier shall provide valid license/authorization for use of the software and one set of backup software in discs.
8. Two sets of all relevant documentation of hardware, software, wiring details, layout, drawings, technical literature of hardware supplied, indenting specifications/part nos. of spares etc. to be provided by supplier. The document should also include information required for operation, programming, calibration, maintenance and troubleshooting.
9. The weighbridges will need to be calibrated once in a month free of cost by the supplier, during the warranty period.

**16. SITE CONDITIONS**

Available power at site is as below: 220 volts, 1 phase, 50 Hz. 415 volts, 3 phase, 50 Hz. The environment within the Dairy Plant will be generally dustier than on surface, with an ambient temperature of 40° C and relative humidity of 75 %.

**SECTION – V**  
**TECHNICAL DATA SHEET**  
**(60MT CAPACITY FULLY ELECTRONIC PIT LESS TYPE ROAD WEIGHBRIDGE )**  
**(TO BE SUBMITTED BY BIDDER DULY FILLED IN ALONG WITH TENDER)**

SI No.	Description	Requirement	(in case deviation mention details)
01	FOUNDATION	Design and construction for civil foundation and supporting structure shall consist of four reinforced concrete pedestal to accommodate anchoring and mounting 4 nos Compression Load cells and 4 pairs Horizontal Constrainers to sustain up to full capacity with 50% overload and necessary earth pit. ( Civil foundation shall be done by supplier)	
01A	RCC CONTROL ROOM	Design and construction for RCC control room size RCC weigh bridge room (control room) of size 3Mtr (Length) x 3.0 Mtr (breadth) x 3.2 Mtr Height (AS per Drawing Enclosed)	
01B	RCC suitable Ramp	Design and construction for suitable Ramp on both sides of the platform with slope (1: 15) and approach Road up to Ramp ( Civil foundation shall be done by supplier)	
01B	Approach up to Ramp from Internal Road inside Dairy Camus	Design and construction for approach road from internal road of Dairy Camus to on both sides Ramp with WBM road and Bituminous Road / RCC to be design for withstand the 30 MT load ( Civil work shall be done by supplier)	
02	MECHANICAL PLATFORM	Pre-fabricated, Pit-less type, Size 6mx3Mtr (30MT) made out of ISMB 500 as Main Guarder with stiffeners, ISMB 250 as sections & ISMB 200 as subsections of quality conforming to IS 2062 grade A 10mm thick MS deck plate, suitable for use up to full capacity with 25% overload protection. 20mm thick foundation plate with M 20 foundation bolt Total Weight of the platform should not be less than 3.5MT	
03.	HORIZONTAL CONSTRAINERS	Suitable Constraining arrangements / Stop port should be provided with the mechanical structure to arrest horizontal forces transmitted to Load cells of type	

SI No.	Description	Requirement	(in case deviation mention details)
04.	LOADCELL	4 nos Compression Type Load cells to be provided with 30MT each within built Lightning protection and hermetically sealed to IP 68 (test certificate to be enclosed), 6 wire technology for minimizing error conforming to all other specifications mentioned in the tender. Test certificate to be provided	
05.	HORIZONTAL CONSTRAINERS	Suitable Constraining arrangements (Horizontal Constrainers) to arrest horizontal forces up to 200kN	
06.	JUNCTION BOX	Die cast aluminum housing, with IP 65 sealing & in built surge and Lightning protection	
07.	WEIGHING TERMINAL	Aluminum housing with splash proof front panel IP 65, bright green, 12mm high, 7 segment, Vacuum Fluorescent display with dimension sign & status display, software calibration, 2 line 20 character user fluorescent display self test & error code message for easy trouble shooting, direct connectivity to printer, sealed membrane key board mounted on front panel for protection against dust & required hardware out put	
08.	PC & PRINTER	Desk Top -HP Slim Desktop PC S01-aF2207in Windows 11 Single Language, English Intel® Celeron® processor Windows 11 Home Intel® UHD Graphics 600, 4 GB DDR4-2400 RAM  <b>HP M22f 54.6 cm (21.5) FHD Monitor</b> 54.6 cm (21.5) FHD (1920 x 1080 @ 75 Hz) Flat IPS with Edge-lit 1 VGA; 1 HDMI 1.4 (with HDCP support) Tilt Stand On-screen controls; AMD FreeSync™; Low blue light mode; Anti-glare Sustainable; Adaptive Sync; Eyesafe® Certified; IPS panel	
09.	SOFTWARE	Suitable standard Weigh bridge software compatible with Window's 11 or higher version and provision for modification as per requirement	
10.	GUARANTEE	24 months from the date of commissioning including Load cell failure against Lightning.	

Sl No.	Description	Requirement	(in case deviation mention details)
11.	AFTER-SALES-SERVICE	Service set up with repairing license from L/M authorities	
12.	AMC	The Comprehensive 02 years Annual Maintenance Contract of Road Weighbridges includes checking, repair, Servicing, maintenance of road weighbridges installed at different site of omfed and which shall be handed over to the omfed in working condition.	

**SECTION -IV (C)****SPECIAL CONDITIONS OF CONTACT****DETAILED TECHNICAL SPECIFICATIONS**

<b>LOADCELLS</b>			
<b>Technical Specifications</b>	<b>Required by OMFED</b>	<b>Provided by Tenderer</b>	<b>Deviations/Remarks</b>
Type	Compression (Rocker pin)		
Maximum Capacity	30MT		
No. of Load cells	04		
Housing Materials	Stainless Steel		
Accuracy Class	0.015% of Capacity		
Rated Out Put	1mV/V		
Input Impedance	1080 <sub>+</sub> 10 Ohms		
Output Impedance	1010 <sub>+</sub> 10 Ohms		
Usable Ambient Temperature	-40 to + 95 degree C		
Maximum Usable Load without Electrical damage	200% of Capacity		

Technical Specifications	Required by OMFED	Provided by Tenderer	Deviations/Remarks
Destructive Load	500% of Capacity		
Protection Class	IP 68		
Cable	5mm,4xAWG 22 (0.35 Sq.mm) , Length-16Mtrs		
Resistant against high Voltage	Acc.to DIN EN 61000-4-5		
Lightning Protection	In built		
Hysteresis	< 0.0165		
Non- Linearity	< 0.01%		
Repeatability	< 0.0005		



<b>HORIZONTAL CONSTRAINERS</b>			
Technical Specifications	Required by OMFED	Provided by Tenderer	Deviations/Remarks
Capacity to withstand horizontal forces	Up to 200kN		
Qty to be provided with Weighbridge	4 pairs/ 8 nos		
Weight	9 kg		
Protection	Dust & dirt protected		
Temperature range	- 40 to 90 degree		
Maximum Vertical Movement	$\pm$ 7.5mm		
Dimension	280x140x70 mm		
Weight	10kg per pair		
<p>This should be welded design of sandwich construction incorporating H beams and Chequered plates.</p> <ul style="list-style-type: none"> <li>• Modular Welded Deck Structure</li> <li>• Low Height (Preferably be 405 mm or less from the ground) Sandwich Construction</li> <li>• Load cells – Mounted inside Enclosed End Boxes</li> <li>• Chequered Platform plates</li> <li>• Powder Coated, Modular Guide Rail</li> </ul> <p>Surface Preparation through Dry Abrasive Copper Slag Shot Blasting - Corrosion Resistant epoxy finish enhance Life-span and aesthetic look of W/Bridge.</p> <p>Must conform to highest degree of protection against ingress of dust and moisture i.e. IP 69K. Weigh Bridge includes Load Cell, Digitizer, necessary software, Junction box, bottom work etc.</p>			

## **WEIGHBRIDGE INTERFACING SOFTWARE**

Suitable standard Weigh bridge software compatible with Window's XP or higher version, modification as per requirement for Challan Printing of Gross, Tare, Net Weight, Customer name , truck number, material name, in/out time , daily, weekly, monthly, customer , truck & material wise report & LAN connectivity. All date & time should be taken from the system Fraud proof (All Weight should be taken from Weighing Terminal).

### **Software for weighbridges should complies of following**

Road weighbridges are to be used for weighment of Trailer/ trucks, empty (tare weight) as well as filled with Material (gross weight) for supply to consumers (outside parties) and also for transportation of Material (internal use).

The software to be developed for the existing as well as the planned weighbridges should have the following:

At the time of installing the software should accept the following data. - Name of the company in full, 30 characters long - Name of the area in full, 15 characters long and - Name of the weighbridge in full, 15 characters' long

Once the software is installed in a particular Road weighbridge no provision should be given to alter the data entered above

- All date and time values are to be taken from the system date and time.
- The software should print Gate Pass, Daily Report and Monthly Report of the weighment done in the weighbridge as per the formats enclosed & DO wise report.
- Creation of master information: Details of the D.O data to be captured on PC before weighment is given below:

### **For Consumers (Outside parties):**

#### **Creation of master:**

- Delivery Order number and date, 15 characters long and British date.
- Name of the consumer as per D.O., 35 characters long.
- Address of the consumer as per D.O., 35 characters long.
- code as per D.O., 4 characters long.
- Grade as per D.O., 3 characters long f) Size as per D.O., 5 characters long.
- Source unit as per D.O., 15 characters long.
- Released quantity as per D.O., 5 integers + 2 decimals i) Validity period as per D.O., British date format.

### **For internal transportation:**

#### **The master is to be created and updated with**

- The truck number, 10 characters long.
- Tare weight, 2 Integers + 2 Decimals (in tonne).

- Date of updation, British data format.
- Transporter"s name, 35 characters long.
- Provision for updating the tare weights along with the date of updation should be provided
- The tare weight (from the truck master in case of internal use), gross weight of each truck with truck number and grade & size lifted should be recorded in the PC along with the date and time of weighment.

**Software should ensure**

- that both tare weights and gross weights recorded are fully protected/guarded against any updation later. In case of supply to outside parties the software must check whether balance quantity (minimum of 8 Tonnes) is due for lifting against the D.O at the time of weighment of tare itself.
- If the balance quantity is less than the minimum 8 Tonnes the tare weight should not be accepted/recorded.
- The software should also check the validity of the D.O and if the validity period has expired then the tare weight should not be accepted/recorded. Again the quantity being lifted adds up to more than the released quantity in the D.O then the Gate Pass should not be printed unless the released quantity is adjusted by competent authority. Provision in the software should be incorporated to print a warning in the gate pass if the balance quantity against the D.O., is 20 Te or less.
- Provision should be given in the software to adjust the balance quantity against the consumer in case of increase in price of material, sales tax etc. Provision in the software must be made to reprint the gate pass in case of damaged gate pass etc.
- The software should have the provision to give a daily and monthly road despatch report as per format enclosed.
- A sample of the gate pass is also enclosed.
- Provision should be given in the software to copy the weighment details by a master password holder on to a floppy for billing purposes in the area or for creating backups.

Only executable files of the software should be loaded in the weighbridge PC. No other software should be provided in the weighbridge PC.

<b>WEIGHING TERMINAL</b>			
Technical Specifications	Required by OMFED	Provided by Tenderer	Deviations/Remarks
Mains Supply	220/240V AC, 50/60 Hz		
Load cell Supply	12VDC or 20VDC selectable (short circuit proof)		
Measuring Range	Total range - 36mV, minimum span 2-4mv, Measuring voltage impedance - > 10 MOhms		
Analog Filter	Active Butter worth low pass filter , cut off frequency- 2Hz		
Linearity	< 0.007%		
Weight Display	Vacuum fluorescent, 7 segment, plus dimension sign (kg or t) , status indication ('0', standstill), active digit 5, plus negative sign, height of digit-12.5mm, bright green		
Calibration	Software with hardware locking device		
Housing	Die-cast, aluminum housing with splash proof dust proof front panel		
Technical Specifications	Required by OMFED	Provided by Tenderer	Deviations/Remarks
Key Board	Sealed membrane integrated key board for		

	complete protection from dust		
Troubleshooting	Error code message generation with self test		
Operator Display	Alpha numeric key board of two line 20 character with vacuum fluorescent display mounted on front panel		
Memory	Expandable up to 2000 truck (512 kB) memory		
Printing	Direct printing without PC should be possible with printer and in built programme with modification possibilities.		
Communication Protocol	Should have facility for RS 232, 485, Current Loop, Analogue Out put, parallel printer & memory extension		

<b>PERSONAL COMPUTER</b>			
Type	Desk Top -HP Slim Desktop PC S01- aF2207in Windows 11 Single Language, English Intel® Celeron® processor Windows 11 Home Intel® UHD Graphics 600 4 GB DDR4-2400 RAM	Color Monitor, Key board & Mouse etc. as required Windows 11 Single Language, HP 125 USB Black Wired Keyboard, 1 VGA; 1 HDMI-out 1.4b; 1 serial	
Speed	4 GB DDR4-2400 RAM		
Hard Disk Drive	SATA Hard Drive, 1X1TB, HH SATA tray load DVD+/-RW, Microsoft® Office trial ,		
RAM	4GB		
Monitor	HP M22f 54.6 cm (21.5) FHD Monitor 54.6 cm (21.5) FHD (1920 x 1080 @ 75 Hz) Flat IPS with Edge-lit 1 VGA; 1 HDMI 1.4 (with HDCP support) Tilt Stand On-screen controls; AMD FreeSync™; Low blue light mode; Anti-glare Sustainable; Adaptive Sync; Eyesafe® Certified; IPS panel		
I/O Interface	Parallel port with D type 25 pin connector, PS2 (0ne), USB Key board & mouse, Serial port USB ,Entry Keyboard, Dell 19		
Others	DVD Combo Drive/1.44 Floppy Drive, Key Board, Mouse, 56 kBPS modem 10/100 Mbps, RJ 45 port with LAN support, Pre loaded operating Window's 8 etc.		
Make	HP Compactable		

<b>UN-INTERRUPTED POWER SUPPLY</b>			
Type	Line Interactive		
Capacity	1.00 KVA		
Mains Supply	220/240VAC		
Out Put	220 + 10%		
Back up	At least 30 minutes back up during power failure to PC & Weighing Terminal or 6 hours to Weighing Terminal only.		
Others	Should be suitable for operation of PC, Printer & Weighing Terminal		
Battery	Sealed Maintenance free		
<b>PRINTER( HP make)</b>			
Type	HP Laserjet 1008a <b>Printer</b>		
Column	80 Column		

### **29.0 Special notes**

- Vendors may note that after the specified time and date of tender closing, same enquiry cannot be accessed by the vendor. During the specified time when the tender is open for bid submission, you may modify the bids as per your convenience, whereas, in-case of multiple modifications the last submitted offer will be taken into consideration
- Bidders are requested to visit the project site for assessment of quantum of work before quoting. This job is a complete turnkey job and accordingly all items necessary to give the rated/designed output are included in scope of work even through it is not specified in the details.
- The work shall be done in a running dairy plant. Hence, the shutdowns for dismantling/installation of equipments are to be arranged with the Dairy / Plant Authorities in such a way that the production of the dairy does not get affected. The contractor shall prepare programmes for shut-down/hooks up/change over from existing to new system, in consultation with the Dairy authorities & submit the same for approval of Project

authority at least 30 days in advance. Bidders would note that no extra payment shall be made on this ground.

- The control room should be within 100Mtr from the weighing platform.
- All cables and accessories for connecting Load cell to Control room will be in the scope of the supplier.

## **Weighbridge Standards / Codes**

- The offered weighbridge must conform to standards/Codes and weights & measures rules as under:
- Specification for Weighbridge : IS:1436-1991
- Hot rolled low medium and high tensile
- Structural steel : IS:1436-2006
- Electronic Weighing System : IS:9281 Part 1-1979, Part III- 1981 Part IV- 1983
- Code of practice for general construction in steel : IS: 800-2000
- Dimension and weight of road design vehicles : IRC:3-1983
- Standard specification and codes of practice
- For road bridges section 01 : IRC: 5-1985
- Standard specification and codes of practice
- For road bridges section 05 steel road bridges : IRC:24-1967
- Load and Stress : IRC:6-2000
- For Live Load : IS:875-1985
- Weights & Measures Rules-1987 : Compliance of Standard Weights & Measure
- **Test Certificates:** Suppliers must furnish relevant test certificates of their own or from Govt. approved laboratory, along with their supply.



**PRICE – BID**

**A. Civil Work for 30 MT electronic Road Weighbridge**

<u>SI.No</u>	<u>Description</u>	<u>Unit</u>	<u>Qty.</u>	<u>Rate (Rs.)</u>	<u>Amount (Rs.)</u>	<u>Rate of GST</u>	<u>Amount of GST</u>	<u>Total Amount (including tax)</u>
01	Design and construction for civil foundation and supporting structure shall consists of four reinforced concrete pedestal to accommodate anchoring and mounting 4 nos Compression Load cells and 4 pairs Horizontal Constrainers to sustain up to full capacity with 50% overload and necessary earth pit.	No	01					
02	Design and construction for RCC control room size RCC weigh bridge room (control room) of size 3Mtr ( Length ) x 3.0 Mtr ( breadth ) x 3.2 Mtr Height (AS per Drawing Enclosed)	No	01					
03	Design and construction for suitable Ramp on both sides of the platform with slope (1: 15) and approach Road up to Ramp	No	01					
04	Design and construction for approach road from internal road of Dairy Camus to on both sides Ramp with WBM road and Bituminous Road / RCC to be design for withstand the 20MT load	No	01					
<p><b>Rupees(.....) Total:Rs</b></p>								

**B.(supply of 30 MT electronic Road Weighbridge)**

<u>Sl. No.</u>	<u>Description</u>	<u>Unit</u>	<u>Qty.</u>	<u>Rate (Rs.)</u>	<u>Amount (Rs.)</u>	<u>Rate of GST</u>	<u>Amount of GST</u>	<u>Total Amount (including tax)</u>
<b>(B)Electronic Road Weighbridge consists of followings</b>								
<b>01</b>	Supply and design of Pit less, Mechanical Platform of size 6.0 X 3.0m with grouting plate for Load cell & Horizontal Constrainers, Mounting brackets suitable for use in 30 MT capacity electronic Road Weighbridge complete as required as per specifications	Set	01					
<b>02</b>	Horizontal Constrainers complete as required as per specifications	Pair	04					
<b>03</b>	Electronic Kit consists of 4 Nos. Load cells, Mounting Kit, Weighing Terminal, Junction Box & extension Cable as per specifications	Set	01					
<b>04</b>	1 KVA, UPS (Line interactive) with rechargeable battery for 6 hours back up as per specifications	Set	01					
<b>05</b>	<b>HP Laserjet 1008a</b> Printer as per specifications.	Set	01					

<b>(C) PC &amp; WEIGHBRIDGE INTERFACING SOFTWARE</b>								
<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate (Rs.)</b>	<b>Amount (Rs.)</b>	<b>Rate of GST</b>	<b>Amount of GST</b>	<b>Total Amount (including tax)</b>
<b>03</b>	HP Slim Desktop PC S01-aF2207in Color Monitor, Key board & Mouse etc. as required Windows 11 Single Language, Intel® Celeron® processor Windows 11 Home Intel® UHD Graphics 600 4 GB DDR4-2400 RAM HP 125 USB Black Wired Keyboard, 1 VGA; 1 HDMI-out 1.4b; 1 serial SATA Hard Drive, 1X1TB, HH SATA tray load DVD+/-RW, Microsoft® Office trial ,	Set	01					
<b>04</b>	Standard Weighbridge Interfacing software with necessary modification as per requirement	No	01					
<b>05</b>	Packing, forwarding & transportation charges up to installation site	No	01					
<b>Rupees(.....) Total:Rs</b>								

**D. INSTALLATION AND SUPERVISION**

Sl. No.	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)	Rate of GST	Amount of GST	Total Amount (including tax)
01	Supervision of Civil foundation, installation of all equipment, testing, verification, inspection & stamping by statutory authorities and commissioning of the Weighbridge	No	01					

**Rupees(.....) Total:Rs.**

**E. Electrical cabling & earthing**

Sl. No.	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)	Rate of GST	Amount of GST	Total Amount (including tax)
1.	Providing supplying and installation of PVC insulated, Aluminum armoured cable, KV of following size for energizing equipments / MCC : a) 4 C X 10 Sqmm	Mtr	50.0					
02	Providing supplying and installation of G.I. earth strip of size : 25 mm X6 mm	Mtr	50.0					
03	Providing supplying and installation of Erthing pit	No	02					
<p><b>Rupees(.....) Total: Rs.</b></p>								

**F. Annual Maintenance Contract**

<u>Sl. No.</u>	<u>Description</u>	<u>Unit</u>	<u>Qty.</u>	<u>Rate (Rs.)</u>	<u>Amount (Rs.)</u>	<u>Rate of GST</u>	<u>Amount of GST</u>	<u>Total Amount (including tax)</u>
01	The Comprehensive 02 years Annual Maintenance Contract of Road Weighbridges includes checking, repair, Servicing, maintenance of road weighbridges installed at different site of omfed and which shall be handed over to the omfed in working condition.	No	01					

Rupees(.....) Total:Rs.

**Grand Total (of A+B+C+D+E, F) : Rs**

Rupees(.....)

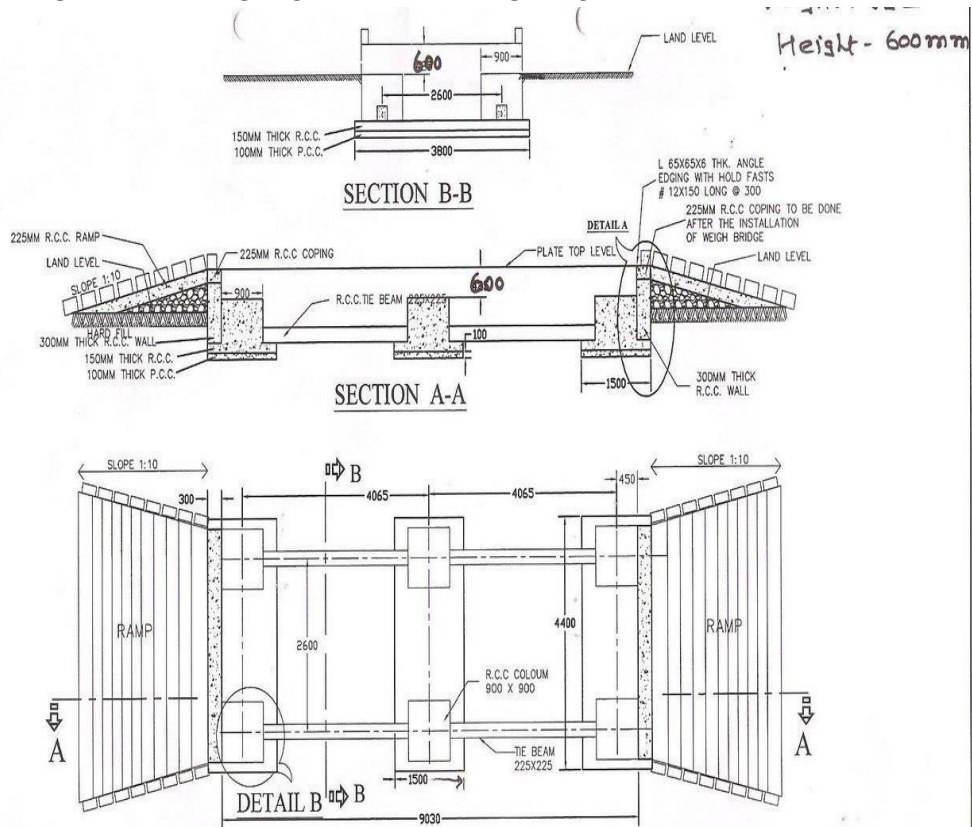
**NB:**

1. **Bidders shall quote for all above items at A, B, C, D, E, F**
2. **Offer shall not be considered for part execution.**
3. **Offer will be rejected if the bidder will not Fill up all above the items**

REFERENCE DRAWING FOR TENDER PURPOSE

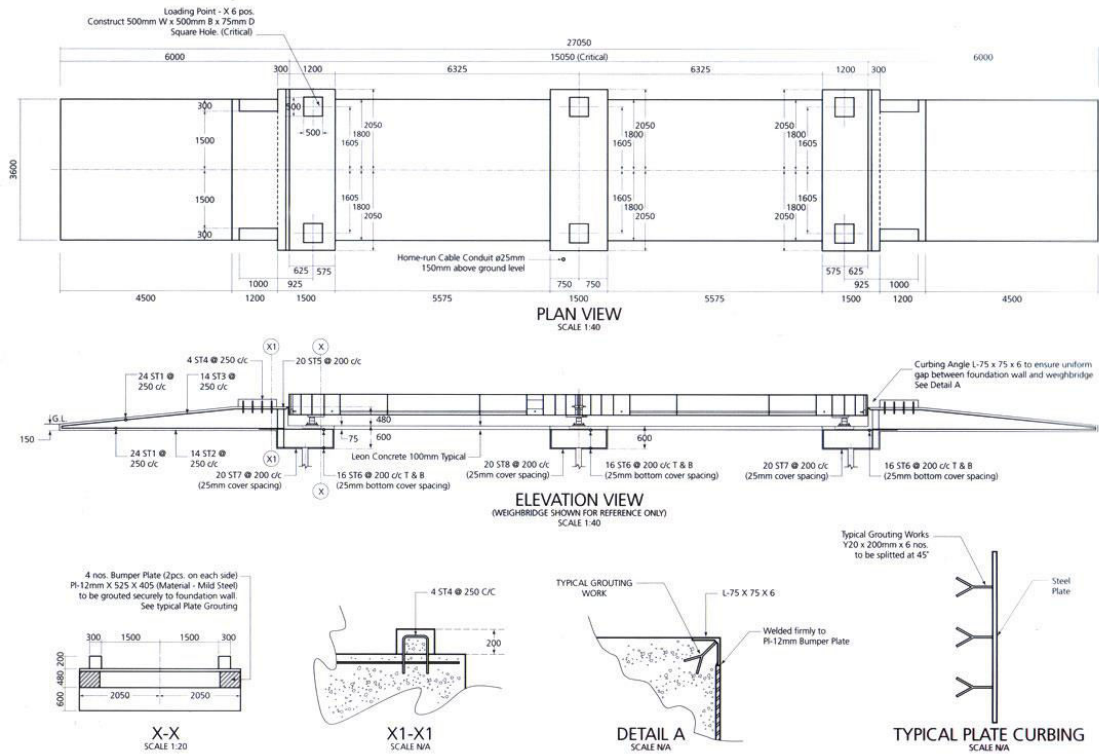


REFERENCE DRAWING FOR TENDER PURPOSE



# REFERENCE DRAWING FOR TENDER PURPOSE

## Concrete Foundation Details (Model : SET - PLWB - 6015CD - PC)



# REFERENCE DRAWING FOR TENDER PURPOSE





**ACCEPTABLE FORM OF BANK GUARANTEE**

**Proforma of Bank Guarantee for Bid Security On Non-Judicial Stamp Paper of Rs.60/-**

Bank Guarantee no. \_\_\_\_\_

Date: \_\_\_\_\_

This deed of guarantee made this \_\_\_\_\_ day of 20\_\_\_\_\_ (Two thousand and \_\_\_\_\_ ) by (Name and address of the Bank), hereinafter referred to as the Bank, which shall unless repugnant to the context or the meaning thereof includes its legal representatives, successors and assigns and the ORISSA STATE CO-OPERATIVE MILK PRODUCERS' FEDERATION LTD. (hereinafter referred to as the OMFED ) which expression shall be unless repugnant to the context or meaning thereof include its legal representative, successors or assigns.

Whereas the OMFED has invited bids for the supply, installation, testing, commissioning, trial run and guaranteeing of the proposed \_\_\_\_\_ by the tender notice reference no. \_\_\_\_\_ .

AND WHEREAS M/S

\_\_\_\_\_ (Name and the address of the bidders) who having submitted their bids (hereinafter referred to as the Tender) and have agreed to deposit to the OMFED an amount indicated in the tender notice as per the terms and conditions of the bidding documents. AND WHEREAS the OMFED is also willing to accept a Bank guarantee in lieu of payment by demand draft of any amount equivalent to the amount of bid security required to be deposited by the bidder to the OMFED which guarantee shall be kept valid for 120 days after the day of the opening of the bids.

In consideration of the OMFED having agreed to consider the bid proposals having submitted by the bidder without depositing the amount of bid security and against this Bank guarantee, we (name and the address of the Bank ) hereby undertake and guarantee to make payment to the OMFED the amount of bid security or any part thereof not deposited by the bidder to the OMFED at any time ( time being the essence of the Contract) when the OMFED asks for the same as per the terms and conditions of the bidding documents within 120 days from the date of opening of the bids.

The Bank further undertakes not to revoke this guarantee during its currency except with the previous consent of the OMFED in writing and the guarantee shall be continuous and irrevocable guarantee up to a sum of Rs.-----

------(Rupees-----  
-----only) provided always that any indulgence or forbearance on the part of the OMFED to the said bidder. With or without the consent of the Bank shall not prejudice or restrict remedies against the bank nor shall the same in any event be a ground of defense by the Bank against the OMFED.

In case the OMFED puts forth a demand in writing on the Bank for the payment of the amount in full or in part against this Bank Guarantee, the Bank will consider that such demand by itself is a conclusive evidence and proof that the bidder has failed in complying with the terms and conditions stipulated by the OMFED in its bidding document and payment will be made to the OMFED without raising any disputes regarding the reasons for such failures on the part of the bidder.

The Bank shall not be discharged or released from this guarantee by any arrangement between the bidder and the OMFED with or without the consent of the Bank or any alternations in the obligations of the parties or by an indulgence, forbearance shown by the OMFED to the bidder.

This guarantee shall be in addition to and without prejudice to any other securities or remedies which the OMFED may have or hereafter possess against the bidder and the OMFED shall be under no obligations to marshal in favour of the Bank any such securities or fund or assets that the OMFED at its absolute discretion may vary, exchange, renew, modify or refuse to complete or enforce or assign any security or instrument.

The Bank agrees that the amount hereby guaranteed shall be due and payable to the OMFED on OMFED's serving with a notice requiring the payment of the amount and such notice shall be served on the Bank either by actual delivery thereof to the Bank or by dispatching thereof by to the Bank by registered post at the address of the said Bank. Any notice sent to the Bank at its address by registered post shall be deemed to have been duly served on the Bank notwithstanding that the notice may not in fact have been delivered to the Bank.

In order to give full effect to the provisions of this guarantee the Bank thereby waives all rights inconsistent with the above provisions and which the Bank might otherwise as a guarantor be entitled to claim and enforce.

The guarantee shall remain in force until-----and unless the guarantee is renewed or a claim is preferred against the bank within three months from the said date all rights of the OMFED under this guarantee shall cease and the bank shall be released and discharged from all liabilities hereunder.

Notwithstanding anything contained here before, our liability under this guarantee is restricted to Rs. ----- (Rupees----- only) being the amount of the Bid security and it shall remain in force until-----.

Place

Signature  
Seal  
Code no.

**Note: Bidders should ensure that the seal and code no. of signatory is put by the Bankers, before submission of the Bank guarantees.**

**Proforma of bank guarantee for Performance security On Non-judicial Stamp Paper of Rs.60/-**

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Bank Guarantee No.

Date:

This deed of guarantee made this \_\_\_\_\_ day of 20 \_\_\_\_\_ (Two thousand and \_\_\_\_\_) by (Name and address of the bank) hereinafter referred to as the bank, which shall unless repugnant to the context or the meaning thereof includes its legal representatives, successors and assigns and the ORISSA STATE CO-OPERATIVE MILK PRODUCERS' FEDERATION LTD. (hereinafter referred as to the OMFED) which expression shall unless repugnant to the context or meaning thereof includes its legal representatives, successors and assigns .

Whereas the ORISSA STATE MILK CO-OPERATIVE PRODUCERS' FEDERATION LTD. has awarded a contract bearing No. \_\_\_\_\_ on M/s \_\_\_\_\_ (Name and the address of the party) hereinafter referred to as the Contractor, for the supply installation, commissioning, completion and the guaranteeing of \_\_\_\_\_

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And whereas the Contractor has agreed to submit a performance security in the form of bank guarantee to the OMFED as per the terms and conditions of the bidding documents. And the contract which will be kept valid upto \_\_\_\_\_ calendar months from the date of bank guarantees (the period should be till end of period of maintenance) and whereas the bank and its duly constituted agent and officer has already read and understood the contract between the OMFED and the Contractor.

In consideration of the OMFED having agreed to award the contract on the Contractor, we \_\_\_\_\_ (the bank) do hereby guarantee, undertake, promise and agree with the OMFED , its legal representatives, successors, and assigns that the within named (the name of the Contractor) their legal representatives , assignees will faithfully perform and fulfill everything within the bidding document and the contract order on their part to be performed or fulfilled, at the time ( time being the essence of the contract) and in manner therein provided , do all obligations there under and we further undertake and guarantee to make the payment to the OMFED a sum of Rs \_\_\_\_\_ (Rupees \_\_\_\_\_ only). Being 10% of the contract value ,in case the Contractor , their legal representatives, assignees do not faithfully perform and fulfill everything within the bidding document and the contract order on their part to be performed or fulfilled, at the time and in manner therein provided and do not willfully and promptly do all obligations there under. In case the Contractor fails to perform or fulfill the contract as per the terms and conditions agreed upon, the OMFED is entitled to demand an amount equivalent to 10% of the contract value from the Contractor and the demand made by the OMFED itself will be conclusive evidence and proof that the Contractor has

failed to perform or fulfill his obligations under the contract and neither the Contractor nor the bank shall be entitled to raise any dispute regarding the reasons for the failure of performance or fulfillment on any ground whatsoever.

We, (the name of the bank), do hereby undertake to pay an amount equivalent to 10% of the contract value, being the amount due and payable under this guarantee. Without any demur, merely on a demand from OMFED stating that the amount claimed is due by way of Non-performance of the contractual obligations as aforesaid by the contractor or by the reason of the contractor's failure to perform the said contractual commitments, any such demand made on the banks shall be conclusive as regards the amount due and payable by the bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only being the amount equal to 10% of the contract value.

We, the bank further agree that the performance security herein contained shall remain in full force and effect for a period of \_\_\_\_\_ calendar months from the date of the bank guarantee. (the period shall be till the end of period of maintenance) whichever is later or till the OMFED certifies that the terms and conditions of the said contract have been fully and properly carried out by the said Contractor and accordingly discharge the guarantee, unless a demand or a claim under this guarantee is made on us in writing by the OMFED on or before \_\_\_\_\_ (the date shall be 90 days after the end of the period of maintenance) we shall be discharged from all liabilities under this performance security hereafter.

We, the bank, further agree with the OMFED that the OMFED 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 bidding document and the contract or to extend the time of performance by the said Contractor from time to time and any of the power exercisable by the OMFED against the Contractor and forbear or enforce any of the terms and conditions relating to the said bidding document and the contract and we shall not be relieved from or liability by reason of any such variation, or extension being granted to the said contractor or for any forbearance, act or omission on the part of the OMFED to the said Contractor by any such matter or thing whatsoever which under the law relating to the sureties would but for this provision have effect of so relieving us. This guarantee shall be in addition to and without prejudice to any other securities or remedies which the OMFED may have or hereafter possess in respect of the works executed or intended to be executed and the OMFED shall be under no obligation to marshal in favour of the bank any such securities or funds or asset that the OMFED may be entitled to receive or have a claim upon and the OMFED at its absolute discretion may vary, exchange, renew, modify or refuse to complete or enforce or assign any security or instrument.

The bank agrees that the amount hereby guaranteed shall be due and payable to the OMFED on serving us with a notice, requiring the payment of the amount and such notice shall be deemed to have been served on the bank either by actual delivery thereof to the bank or by dispatch thereof to the bank by registered post at the address of the bank.

Any notice sent to the bank at its address by registered post shall be deemed to have been duly served on the bank notwithstanding that the notice may not in fact have been delivered to the bank.

In order to give full effects to the provisions of this guarantee the bank hereby waives all rights inconsistent with the above Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ Only). The guarantee shall remain in force until \_\_\_\_\_ and unless the guarantee is renewed or a claim is preferred against the bank within three months from the said date (the date of expiry ) all rights of the OMFED under the guarantee shall cease and the bank shall be released and discharged from all liabilities hereunder.

Place  
Date

Signature  
Seal  
Code no.

**Note:**

The Contractor should ensure that seal and the code no. of the signatory is put by the bankers, before submission of the bank guarantees.