

Detailed Specification

Enquiry:MM/172/G30509

Contact Details

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Please submit your offer for supply of the following items as per the instructions, technical specifications and other terms and conditions specified herein/ attached.

Note:

1. The delivery period mentioned in the BoQ is our indicative requirement. You may offer your earliest delivery period.

Please refer our above referred enquiry number in all correspondence.

SL No.	Material Code	Detailed Specification/s	Quantity	Unit of Measure
1	664914000	Front End Wheel Loader Powered by indigenous water-cooled Diesel Engine fitted with power shift transmission with Mechanical Gear selection control, preferably air brake in all wheels, having bucket capacity 1.7 to 2 Cum, suitable operator cabin and also as per the Data sheet and General conditions (I, II & Annexure A) attached.	1	Number

Special condition

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- 1) Equipment should be as per data sheet HES/UC/FEWL/22-23/ 374
 - 2) Acceptable Makes: BEML/ JCB/ Caterpillar/ Hindustan/ L&T/ TATA-Hitachi/ Escorts

EQUIPMENT DATA SHEET

TPS No. HES - UC-FEWL-22-23/374

A) Equipment : FRONT END WHEEL LOADER

B) General Specifications of Equipment:

- 1. Bucket Capacity** : 1.7 to 2.0 Meter cube
- 2. Duty** : Handling of Products (Sulphur/ Rock Phosphate/ Soda ash etc.)
- 3. Overall length** : Not More than 6900 MM
- 4. Dump height** : Not less than 3600 MM
- 5. Overall Width** : Not More than 2600 MM
- 6. Engine:** Suitable Indigenous Diesel Engine of required HP conforming to latest pollution standards. Engine shall be fitted with Water cooled radiator and the radiator shall be of suitable material of construction to effectively withstand corrosion due to hygroscopic material such as Sulphur / Rock Phosphate/ Gypsum/Soda ash Etc.
- 7. Cabin:** Ergonomically designed cabin and control layout for easy operation and to reduce operator fatigue. Adjustable cushion seat is to be provided. All meters, gauges, warning lamps are to be provided in the cabin. Operator comfort shall be ensured by providing adjustable cushion seat, Fan, Operator controls with Pilot Operated Hydraulic joystick, Mirrors for improved visibility from cab etc. Cabin shall be provided with adequate protection to protect the operator from falling material. The cabin should be mounted on the rear frame of the Equipment.
- 8. Tyres:** The equipment shall be fitted with standard size and should be available indigenously.
- 9. Brakes:** Air actuated brakes fitted in all four wheels OR Wet multiple disc brakes, hydraulic actuated in all wheels with air booster and independent mechanical parking brakes.
- 10. Power Train:** Equipment shall be fitted with suitable Transmission (preferably indigenous twin turbine type) with Planetary Gearbox and mechanical lever control for selecting speed range and four wheel drive. Electrically controlled gear selection is not acceptable.
- 11. Steering System:** Fully hydrostatic power steering system independent of engine speed with Orbitrol type steering
- 12. Rear frame:** The rear frame shall be mounted so as to oscillate sufficiently on either side of the longitudinal axis, enabling the loader to be used on rough terrain and on unprepared ground.



GENERAL CONDITIONS (I)

The following data should be forwarded along with the quotation.

1. Engine: Details of engine shall be furnished as given below.

Make of engine :
Type of Engine :
Gross HP :
No. of cylinders :
Bore and stroke :
Piston displacement :
Maximum torque :
Lube oil data :
Fuel specification :
Maximum RPM :
Governor type :
Engine cooling :

2. Radiator details for water cooled engine: Type of radiator, construction details and special features if any to withstand corrosive atmosphere due to /Sulphur / Rockphosphate/Soda ash.

3. Tyre: Specification of the Tyres used, Ply Rating etc. are to be provided along with the offer

4. Service capacities: Fuel tank capacity, oil pump capacity, hydraulic tank Capacity etc., to be furnished.

5. Accessories: Tool box, battery and other accessories required for (Standard& optional) the efficient operation and maintenance of the loader to be included. A list of such items to be furnished.

6. Fuel consumption / hour for normal operation:

7. Hydraulic Oil capacity :

8. Quantity for one change of hydraulic oil:

9. Periodicity of replacement of hydraulic oil :

10. Lube Oil capacity and Periodicity of change of Lube oil :

11. Recommended hours of operation per day of the equipment:

12. Estimated operating cost of the Equipment per hour:

13. The following data to be furnished

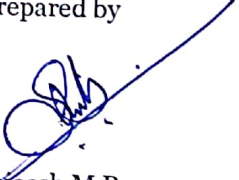
a. Bucket capacity :

b. Dump height :

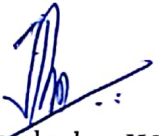
c. Dump reach :

- d. Operation weight :
- e. Length of the equipment :
- f. Height of the equipment :
- g. Bucket width :
- h. Equipment width :
- i. Ground clearance :
- j. Complete technical details and features of the following main/ sub-assemblies should be furnished.
 - i. Transmission :
 - ii. Axles :
 - iii. Steering :
 - iv. Brakes :
 - v. Tyre and rims :
 - vi. Electricls :
 - vii. Bucket :

Prepared by


Sajeesh M R
DMM(M) G&H

Verified by:


Jayaprakashan U T
DGM(M) Fert - UC

GENERAL CONDITIONS (II):

1. The equipment shall be complete with all the necessary auxiliaries / safety provisions required for efficient and trouble free operations.
2. Necessary drawings / technical brochures of equipment / sub-assemblies shall be sent along with the quotation.
3. Normal working conditions may be taken as dusty / corrosive and all the electrical gadgets are to be suitably covered and protected.
4. The spares required for normal trouble free operation of two years (as per the Annexure A) are to be quoted along with the Equipment.
5. All lubrication points shall be provided with nipples / cups complying with the relevant standards.
6. The equipment shall be painted with anti-corrosive epoxy primer and paint.
7. The equipment with all accessories shall be guaranteed for trouble free operation for a minimum of eighteen months or 3000 hours of operation from the date of commissioning.
8. Guarantee offered should be for the whole equipment and separate guarantee offered by the manufacturer of individual components is not acceptable.
9. Two copies of Care and Operation manual, Shop manual and Spare Parts catalogue to be supplied, free of cost.
10. The equipment should be commissioned at FACT Udyogamandal Division Site, free of cost.
11. Equipment shall be supplied with the required oil except diesel. Only topping up of oil shall be arranged at our end. The vendor shall state the recommended grades of lubricants / oils, frequency of lubricant changes and the quantity of initial fill.
12. Tool kit containing all the special tools required for maintenance should be supplied along with the equipment, free of cost (list of tools shall be indicated in the offer).
13. Our representative or authorized third party should have access to the manufacturer's works, during execution of the order, for inspection purposes and all necessary assistance shall be extended to him. The equipment shall be shipped only after pre-despatch inspection by FACT (UD) / authorized representative of FACT (UD).
14. Particulars of service centres for supply of spares and service assistance (for the equipment / sub-assemblies) to be indicated.



(4)

15. Vendors shall indicate details of the population of similar machines presently in operation including name of organization, contact person etc.

ANNEXURE (A)

The following spares for two year operation may also be quoted / considered for procurement along with the equipment.

1	Air cleaner Element	12 Nos.
2	Engine oil filter	6 Nos.
3	Transmission oil filter	4 Nos.
4	Hydraulic oil filter	4 Nos.
5	Alternator/ Water pump drive belt	4 Nos.
6	Water pump	1 No.
7	Radiator Assy.	1 No.
8	Transmission oil cooler	1 No.
9	Hydraulic oil cooler	1 No.
10	Cylinder seal kit	1 No.
11	Starter motor	2 Nos.
12	Alternator	2 Nos.
13	Wheel disc with tyre	1 No.





COMPLIANCE STATEMENT

Sl. No.	Terms	Bidder confirmation
1	Equipment should be as per data sheet HES/UC/FEWL/22-23/374	
2	Acceptable Makes : BEML/JCB/Caterpillar/Hindustan/ L & T/TAT-Hitachi/Escorts	
3	Please mention shortest possible delivery period.	
4	Please confirm : Price Basis – FOR FACT Stores (as per Gem T & C)	
5	Please confirm : Taxes and Duties - The Price offered in GEM is all inclusive of TAX. (as per Gem T & C)	
6	Please confirm : Payment Terms : 100% payment will be released within 10 days of the issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills as per GEM terms and conditions. (as per Gem T & C)	
7	Please confirm : Liquidated Damages: As per GeM – “@ 0.5% of the contract value of delayed quantity per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value of delayed quantity without any controversy/dispute of any sort whatsoever”(as per GeM T & C)	

Note : All the above columns shall be filled properly, without leaving blanks. Please upload / return this document duly filled-in, along with your bid.