

Detailed Specification

Enquiry:MM/172/G30559

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	664812000	PICK-AND-CARRY CRANE As per the Technical Procurement specifications (TPS), FACT-CD-HE-PICK-AND-CARRY CRANE-2024	1	Number



**SPECIAL CONDITIONS FOR TENDER MM/172/G30559 FOR PICK AND CARRY
CRANE**

- 1] GUARANTEE: The material under order shall be guaranteed against poor workmanship and material for a minimum period of 18 months or 3000 hrs of operation from the date of commissioning whichever is earlier.

- 2] Pre-despatch Inspection Certificate, Performance Test certificate of major components & Guarantee Certificate etc. are to be furnished along with the supply.

- 3] Three hard copies and one soft copy (PDF format) of the Care and Operation Manual, Shop Manual and Spare Parts Catalogue should be furnished along with item supply, free of charge.



THE FERTILISERS AND CHEMICALS TRAVANCORE LIMITED.
A GOVERNMENT OF INDIA ENTERPRISE COCHIN DIVISION, AMBALAMEDU - 682 303, COCHIN, INDIA.
TECHNICAL PROCUREMENT SPECIFICATION (TPS) for PICK-N-CARRY CRANE

TPS No.FACT-CD-HE-PICK-AND-CARRY CRANE-2024.

Equipmenmt Name: PICK-AND-CARRY CRANE

General Specifications of Equipment:

Sl.No	Item	FACT Requirement
1	Type	: Hydraulic Mobile Pick-and-Carry Crane
2	Rated Capacity - on Outrigger Jack	: 20 T or above at 1.5 m operating radius
3	Rated Capacity - on Tyre	: Stationary capacity of lifting 15 T @ 1.5 m radius
4	Boom Type	: 3 or 4 section, Telescopic, Hydraulically powered
5	Maximum Boom/Hook height	: 19 meter or above
6	Hook/Snatch block capacity	: 6 or 8 fall, 15 T or above
7	Travel speed on Road (unladen)	: Above 30 KMPH
8	Boom Lifting	: Single or double cylinder, Hydraulically operated
9	Wheel base	: 4 to 5 meter
10	Engine type	: Suitable water cooled Diesel Engine
11	Overall Height of the Crane	: Below 3.5 Meter
12	Overall Length of the Crane	: Below 11 Meter
13	Overall Width of the Crane	: Below 3 Meter
14	Engine:	
	A suitable indigenous turbocharged diesel engine of the required horsepower, equipped with a water-cooled radiator. The engine meets the latest emission standards according to BS and with effective local service support.	
15	Radiator:	
	The radiator shall be of suitable material of construction to effectively withstand corrosion due to NP 20:20 /Gypsum /Sulphur / Rock Phosphate.	
16	Operator Cabin:	
	The equipment shall be fitted with ergonomically designed cabin and control layout for easy operation and to reduce operator fatigue. The equipment shall be supplied with a tubular steel frame cab of high durability and with very high impact absorbency. The equipment shall be fitted with adjustable cushion seat, operating joysticks and all meters, gauges, warning lamps etc. in the cabin. Construction details of cabin and internals and details of any special design to protect the operator in the event of roll over.	
17	Tyres:	
	The equipment shall be fitted with standard-sized tyres (8 heavy-duty tyres) and shall be readily available indigenously. The vendor should specify the tyre manufacturer, Tyre details and the source of supply.	
18	Drive and Travel:	
	The equipment will be fitted with Four wheel drive (4x4 Travel). Torque convertor transmission	
19	Steering:	
	Full hydraulic power steering having Orbitrol control and automotive type steering wheel	
20	Transmission details:	
	Equipment shall be fitted with servo controlled Hydrostatic Transmission and suitable four-wheel drive.	
21	Axles:	
	Heavy Duty, Rigidly mounted front axle and suitable rear axle.	
22	Brake:	
	Preferably drum type, Air Assisted Hydraulic or Pneumatic brake on 4 wheels & Power assisted or mechanical parking brake.	
23	Hoist System:	
	Hydraulically operated heavy duty winch with 8 or 6 falls snatch block & Safety brake.	

24 Hydraulic System:

The equipment shall be equipped with appropriate variable displacement piston pumps for the main hydraulic operations, along with a suitable control valve, accumulator, and safety relief valves. Additionally, hydraulic cylinders suitable for boom operations, steering, and outrigger control shall be installed.

25 Out Riggers:

2 Nos Front Outriggers, operation from cabin.

26 Safety System:

Safe load indicator with hydraulic cut-off, reverse camera, and equipment monitoring system. Over-roll-out limiter for winches and hoist limiter for wire ropes. Equipped with a fire extinguisher.

27 Accessories:

Toolbox and other accessories required for (Standard & optional) for the efficient operation and maintenance of the equipment to be included. A list of such items is to be furnished.

28 Electrics:

The equipment shall be equipped with a 24V battery system, including a heavy-duty starter motor, alternator for the engine, headlights, taillights, stop lights, flashing direction indicators, horn, reverse horn, wiper etc. All components must be designed to withstand corrosive and dusty environments.

29 Local Service Centre

For smooth and effective services, Local service centre at Cochin is preferred, otherwise the vendor's service centre should be within 200 KM radius of Cochin for supply of spares and service assistance (for the equipment / sub-assemblies).

30 Facilities required:

1. Movement on Creep speed of less than 2 KMPH
2. Safe load indicator
3. Fire extinguisher

31 Additional requirement:

Spare wheel with tyre.


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VimalKumar T

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Approved By


Mathukutty Thomas


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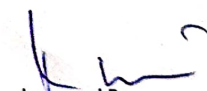
EQUIPMENT DATA SHEET

(I) the following technical data of the equipment should be submitted along with the quotation.

- 1 Engine: Details of engine shall be furnished as given below.
 - a. Make of engine :
 - b. Type of Engine :
 - c. Gross HP :
 - d. No. of cylinders :
 - e. Bore and stroke :
 - f. Piston displacement (cc) :
 - g. Maximum torque :
 - h. Lube oil data :
 - i. Specific Fuel Consumption :
 - j. Maximum RPM :
 - k. Governor type :
 - l. Engine cooling :
 - m. Emission standard :
 - n. Fuel used :
 - o. Compression Ratio :
 - p. Weight of the engine :
- 2 Radiator details : MOC & constructional details :
- 3 Operator Cabin : Construction details, Facilities provided :
- 4 Tyres : Make, Size ,Nos :
- 5 Drive and Travel : 2 wheel drive/ 4 wheel drive :
- 6 Steering : Type :
- 7 Transmission details : Make & Type :
- 8 Axle details : Front, Rear :
- 9 Brake details including parking brake: type :
- 10 Hoist system details :
- 11 Hook block details :
- 12 Hydraulic System :
- 13 Service/Refill capacities :
- 14 Out Riggers :
- 15 Safety System :
- 16 Electrics :
- 17 Accessories :
- 18 Particulars of Local service centers :
- 19 Operating data:
 - a. Operating Weight of Crane :
 - b. Fuel consumption / hour or normal operation :
 - c. Recommended hours of operation per day of the equipment. :
 - d. Estimated operating cost of the Equipment per hour :
 - e. Turning Radius :
- 20 Equipment dimensions :
 - a. Overall Height of Crane :
 - b. Overall Length of Crane :
 - c. Overall Width of Crane :
 - d. Maximum Height (with boom and Accessories) :
 - e. Maximum Length (with boom and Accessories) :
 - f. Maximum Extended Stabilizer Jack :
 - g. Wheel base :
 - h. Wheel Track :
 - i. Ground clearance :
- 21 Complete technical details including drawing and features of the following main/ sub-assemblies should be furnished.
 - a. Hydraulic system including piping and cylinders :
 - b. Electrics :
 - c. Boom material and construction :
 - d. Transmission :
 - e. Steering :

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(II) GENERAL CONDITIONS: (Vendors are requested to confirm the following each and every point)

- 1 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.
- 2 Guarantee offered should be for the whole equipment and separate guarantees offered by the manufacturer of individual components not acceptable
- 3 The essential spares like filters, seal kits, drive belts etc. required for normal trouble free operation on warranty period shall be quoted along with the Equipment (As per annexure A)
- 4 The equipment shall be complete with all the necessary auxiliaries / safety provisions required for efficient and trouble free operations.
- 5 Necessary drawings / technical brochures of equipment / sub assemblies shall be sent along with the quotation.
- 6 Normal working conditions may be taken as dusty and all the electrical gadgets to be suitably covered and protected.
- 7 All lubrication points shall be provided with nipples / cups complying with the relevant standards.
- 8 The equipment shall be painted with two coats of anti-corrosive primer and two coats of anti-corrosive epoxy paint of an approved make and quality suitable for heavy-duty vehicles. The details of the paint used shall also be provided.
- 9 Commissioning: The equipment should be commissioned at FACT Cochin Division Site and technical training has to be arranged to operation/maintenance crews at FACT CD for trouble free operation/essential maintenance of machine , free of cost.
- 10 Three hard copies of the Care and Operation Manual, Service Manual, Shop Manual, and Spare Parts Catalogue should be supplied free of charge along with one soft copy in PDF format.
- 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 replenishment etc.
- 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 (CD) / authorized representative of FACT (CD).
- 14 Performance test certificates of major components like engine, pumps, motors etc are to be submitted along with the supply.
- 15 Particulars of service centers for supply of spares and service assistance (for the equipment / sub assemblies) to be indicated.
- 16 Vendor shall indicate details of the population of similar machines presently in operation in near by industries including name of organization, contact person etc.

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ANNEXURE -A

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

1. Engine Service kit	: 06 Nos
2. Air cleaner element	: 12 Nos
3. Hydraulic oil filter	: 06 Nos
4. Engine oil filter	: 12 Nos
5. Fuel oil filter	: 06 Nos
6. Alternator Belt	: 02 Nos
7. Alternator	: 02 Nos
8. Starter motor assembly	: 01 No
9. O ring Kit	

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PRE-QUALIFICATION CRITERIA (PQC) FOR BIDDERS OF PICK-AND-CARRY CRANE			
Sl.No.	Criteria	Documents to be uploaded along with the quotations to prove the criteria in the column at left	Particulars of documents uploaded (to be filled by the bidder)
1	The bidder should be the OEM/ supplier / distributor of Pick-and-Carry Cranes with a capacity of 20 tons or more, during the last 3 years ending on the date of the Tender.	Self-attested copies of Purchase Orders. If the bidder is a supplier / distributor, Self-attested copy of Authorization letter from the OEM & copy of purchase orders.	
2	At least two units of the offered Model supplied as per Sl. No (1) above should be in operational and demonstrating satisfactory within India.	Certificate(s) for satisfactory performance of the offered Model from the end users including State / Central Govt. Undertakings, if any, shall be submitted	
3	Bidder should give assurance on local service support and spares parts availability at least for 10 years.	Self-declaration.	
4	The Bidder should have adequate in- house testing facilities for conducting performance/ acceptance test in accordance with the relevant specifications. In case of Authorized Supplier/ Distributor, their OEM should possess the in-house testing facility.	Self-declaration.	
5	a) Average annual turnover of the bidder for the last three financial years ending on 31-03-2024 shall be at least Rs. 80/- Lakhs or above and b) Annual turnover for each year shall be at least Rs. 12 /- lakhs or above during the last three financial years ending on 31-03-2024	Self-attested copies of audited financial statements (Profit & Loss Account and Balance Sheet) for the last three financial years ending on 31-03-2024	
	NOTE:		
	1. All relevant documents for satisfying the pre-qualification criteria shall be enclosed in the techno- commercial bid, without which the offer is liable to be rejected without seeking further clarifications. FACT shall have the liberty to verify the documents/data submitted by the vendor as proof for meeting the pre- qualification		
	2. Copies of the documents submitted in proof of meeting PQ criteria shall be duly attested by the Bidder. The vendor has to submit the documents in proper order like Purchase Orders, Invoices / dispatch documents, Performance certificate.		



COMPLIANCE STATEMENT

Sl. No.	Terms	Bidder confirmation
1	Offers shall be as per the TPS provided.	
2	GUARANTEE: The material under order shall be guaranteed against poor workmanship and material for a minimum period of 18 months or 3000 hrs of operation from the date of commissioning whichever is earlier.	
3	Pre-despatch Inspection Certificate, Performance Test certificate of major components & Guarantee Certificate etc. are to be furnished along with the supply.	
4	Three hard copies and one soft copy (PDF format) of the Care and Operation Manual, Shop Manual and Spare Parts Catalogue should be furnished along with item supply, free of charge.	
5	Please mention shortest possible delivery period.	
6	Please confirm : Price Basis – FOR FACT Stores (as per Gem T & C)	
7	Please confirm : Taxes and Duties - The Price offered in GEM is all inclusive of TAX. (as per Gem T & C)	
8	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)	
9	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.