

## **CORRIGENDUM -4**



रामागुण्डम फर्टिलाइजर्स एण्ड केमिकल्स लिमिटेड

### **E-Tender No – RFCL-16**

#### **REVISED TENDER SCHEDULE & REVISED SPECIFICATIONS**

#### **SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF “35 -40 Te Rough Terrain Crane” at Ramagundam, Telangana Unit**

Tender Ref: RFCL/C&P/35-40 Te Crane/Mech/2020

<i>Sr. No.</i>	<i>Tender Stage</i>	<i>Date &amp; Time</i>
1	Start Tender Document Download	14.03.2020 at 11:00 hrs.
2	End Tender Document Download	12.06.2020 at 15:00 hrs.
3	Due/ last date of submission Bids	12.06.2020 at 15:30 hrs.
4	Techno-commercial Bids Opening	12.06.2020 at 15:45 hrs.
5.	Price Bid Opening	To be intimated later
6	Place of Opening of Bids	RFCL's H.O. office, New Delhi

#### **REVISED TECHNICAL SPECIFICATIONS ARE ATTACHED HEREWITH**

All other terms & conditions of tender document remain unaltered. For further details, visit website: <http://rfcl.co.in/opentender.php> & [www.tenderwizard.com/RFCL](http://www.tenderwizard.com/RFCL). Any Corrigendum / Addendum (s) to this Notice shall be published on RFCL's website / e-tender portal only. The tenders will be submitted online on the web site [www.tenderwizard.com/RFCL](http://www.tenderwizard.com/RFCL) only.

**For & behalf of RFCL**

**(Shashi Prakash)  
Manager (C&P)**

**SPECIFICATION FOR 35 - 40 TE MOBILE CRANE (REVISED)**

<b>S.N</b>	<b>Description</b>	<b>Specification for indent</b>
<b>A</b>	<b>General Specification</b>	
1	Type	<b>Rough Terrain crane</b>
2	Capacity	<b>35 to 40 MT</b>
3	Boom Type	<b>Telescopic</b>
4	Boom Length (On fully extended condition)	<b>Not less than 30 meters</b>
<b>B</b>	<b>Rated Capacity</b>	
1	Maximum Capacity (On outriggers)	Vendor to specify
2	Radius at which Maximum Capacity	Vendor to specify
3	Minimum Capacity (On Outriggers)	Vendor to specify
4	Radius at which Minimum Capacity	Vendor to specify
5	Maximum Capacity with Fly Jib (On Outriggers)	Vendor to specify
6	Radius at which the maximum capacity (with fly Jib)	Vendor to specify
7	Maximum Capacity on Tyres	Vendor to specify
8	Minimum Capacity with Fly Jib	Vendor to specify
9	Radius at which the Minimum capacity (with fly Jib)	Vendor to specify
<b>C</b>	<b>Boom</b>	
1	Boom Type	<b>Telescopic, Full power, sequence sychronized, single lever control, sliding on adustable &amp; Replaceable low friction wear pads</b>
2	No of Boom Sections	Vendor to specify
3	Basic Boom Length	<b>Between 9 to 12 meters</b>
4	Maximum Boom Length (in all sections extended condition)	<b>Not less than 30 meters</b>
5	Boom lifing arrangements	<b>Double acting Hydraulic cylinder with integral hold valve</b>
<b>D</b>	<b>Boom Luffing</b>	
1	Minimum Angle	<b>Not more than -1 degrees</b>
2	Maximum Angle	<b>Inbetwwen 76 to 80 degrees</b>
<b>E</b>	<b>Boom Slewing system</b>	
1	Slew system	<b>360 degrees continuous rotation</b>
2	Slew brake system	<b>Required. Party is to be mention the type</b>
3	Slew Speed	Vendor to Specify
4	Slewing Lock	<b>Required. Party is to mention the type</b>
<b>F</b>	<b>Hoist system</b>	
1	Type	<b>Hydraulic</b>
2	Winch Capacity	Vendor to specify
3	Drum Type	<b>Grooved</b>
4	Wire Rope Type	Vendor to specify
5	Wire Rope Diameter	Vendor to specify
6	Line Speed (Unladen)	Vendor to specify
<b>G</b>	<b>Hook Block</b>	
1	Capacity	Vendor to specify
2	No of Sheaves	Vendor to specify
3	Type of Sheaves	Vendor to specify
4	Maximum No of Falls	Vendor to specify
5	Type of Hook	<b>Rams-Horn Type/Shank type</b>
6	<b>Additional Hooks</b>	
7	Single Hook Having single fall	<b>Required</b>
<b>H</b>	<b>Engine</b>	
1	Make	<b>Should be of ruputed make like Cummins, Caterpillar, Mercedeze Benz, Volvo etc</b>
2	Fuel	<b>Diesel</b>
3	No of Cylinders	Vendor to specify
4	Emission standards	<b>BS III or latest</b>

<b>S.N</b>	<b>Description</b>	<b>Specification for indent</b>
5	Engine cooling media	<b>Water/coolant cooled</b>
6	Power	Vendor to specify
<b>I</b>	<b>Transmission</b>	
1	Drive	<b>4 x 4 (with the provision of driving rear wheels only)</b>
2	Drive selection to drive Rear wheels only	Vendor to Specify
3	Gear Box Type	Vendor to Specify
4	Forward Speeds	Vendor to Specify
5	Reverse Speeds	Vendor to Specify
6	Speed Range selection (Low/High Selection)	Vendor to Specify
7	Maximum Speed	Vendor to Specify
8	Clutch	
9	<b>Traveling speed and Gradeability</b>	
10	Maximum Gradeability	<b>Should not be less than 45 %</b>
11	Minimum Speed	Vendor to Specify
12	Maximum Speed	Vendor to Specify
<b>J</b>	<b>Steering</b>	
1	Type	<b>Power Steering</b>
2	Steering on Front wheel	<b>Required, Type to be mentioned by the party</b>
3	Steering on rear wheel	<b>Required, Type to be mentioned by the party</b>
4	<b>Steering modes</b>	
5	Front Only	<b>Required, Type to be mentioned by the party</b>
6	Rear Only	<b>Required, Type to be mentioned by the party</b>
7	Crab	<b>Required, Type to be mentioned by the party</b>
8	Cordinated	<b>Required, Type to be mentioned by the party</b>
9	Minimum Turning Radius	Vendor to specify
<b>K</b>	<b>Type of Brakes</b>	
1	Type of wheel brakes	Vendor to specify
2	Type of Parking Brake	Vendor to specify
<b>L</b>	<b>Operator Cabin</b>	
1	Type	<b>All weather, totally enclosed steel construction, full vision type cab with all crane functions control levers, driving controls, engine instrumentations, steering wheels</b>
2	Operator Seat	<b>Comfortable seat provided such that all instrumentations,</b>
3	Windows	<b>Fitted with safety glass</b>
4	Door	<b>Lockable sliding door,</b>
5	Interior lighting	<b>Required</b>
6	Fan	<b>Required</b>
7	Electric wiper for glasses	<b>Required</b>
	<b>Minimum Indications in Dashboard</b>	
1	Low Engine Oil Pressure	<b>Required</b>
2	High Engine/coolant Temperature	<b>Required</b>
3	Rear Wheel steer indicator	<b>Required</b>
4	Battery Charging	<b>Required</b>
5	Low Battery	<b>Required</b>
	<b>Minimum instrumentation for Engine required in the cabin</b>	
6	Engine Oil pressure Gauge	<b>Required</b>
7	Fuel Gauge,	<b>Required</b>
8	Engine coolant Temperature	<b>Required</b>
9	Voltmeter/ammeter to check the working of dynamo/alternator of engine	<b>Required</b>
10	Tacho-Hour Meter	<b>Required</b>
<b>M</b>	<b>Control system</b>	
1	Type of control system	Vendor to Specify
2	Electronic Display in the cabin	<b>Required</b>
	<b>Minimum display required in the Electroinc Display</b>	
3	Boom angle	<b>Required</b>
4	Boom Length	<b>Required</b>

<b>S.N</b>	<b>Description</b>	<b>Specification for indent</b>
5	Radius	<b>Required</b>
6	Maximum Permissible Load	<b>Required</b>
7	Load	<b>Required</b>
8	Audio/Visual Warning	<b>Required</b>
9	Over loading	<b>Required</b>
<b>N</b>	<b>Hydraulic System</b>	
1	Pump	Vendor to specify
2	Type of Pump	Vendor to specify
3	Driver of the pump	<b>Engine (through PTO,Gear train etc)</b>
4	Valves	Vendor to specify
5	Filters	Vendor to specify
6	Reservoir Capacity	Vendor to specify
7	Pressure relief valves	Vendor to specify
<b>O</b>	<b>Fly Jib</b>	
1	Type	Vendor to specify
2	Offset Mechanism	Vendor to specify
3	Angle of Offset	Vendor to specify
<b>P</b>	<b>Outriggers</b>	
1	Type (Minimum Requirement)	<b>Horizontal &amp; Vertical Cylinders, Inverted jacks with integral holding valves</b>
2	Control (Minimum Requirement)	<b>Independent control for each outrigger from the cabin</b>
<b>Q</b>	<b>Operating Timings</b>	
1	Steering	Vendor to specify
2	Derricking in	Vendor to specify
3	Derricking out	Vendor to specify
4	Telescoping in - out	Vendor to specify
5	Slewing (360 degrees)	Vendor to specify
<b>R</b>	<b>Safety</b>	
1	Oscillation Lockouts	<b>Required, which permits only oscillation with boom centered over front</b>
2	Over Load Warning	<b>Required</b>
3	Over Hoist Warning	<b>Required</b>
<b>S</b>	<b>Minimum Assories required</b>	
1	Rear View Mirror	<b>Required</b>
2	Back-up Alarm	<b>Required</b>
3	Front Stowage Well	<b>Required</b>
4	Tool Kit	<b>Required</b>
5	Fire Extinguisher	<b>Required</b>
6	Tow Hook on chassis frame	<b>Required</b>
7	360 Degree Beacon Lights	<b>Required</b>
8	Cab spot light	<b>Required</b>
<b>T</b>	<b>Electicals System</b>	
1	Voltage	<b>Not more than 24 V</b>
2	Type of earthing	<b>Negative earthing</b>
3	Battery Capacity	Vendor to Specify
4	No of Batteries	Vendor to Specify
5	Alternator (driven by engine) for battery charging	<b>Required</b>
6	Minimum lighting requirement	
7	Two Head lights	<b>Required</b>
8	Two Tail lights	<b>Required</b>
9	Front and Rear Working light	<b>Required</b>
10	Side lights	<b>Required</b>
11	Stop lights	<b>Required</b>
12	Parking lights	<b>Required</b>
13	Flashing direction indicators	<b>Required</b>

<b>S.N</b>	<b>Description</b>	<b>Specification for indent</b>
14	Reverse lights	<b>Required</b>
<b>U</b>	<b>Tyre Size</b>	
1	Front	Vendor to Specify
2	Rear	Vendor to Specify
<b>V</b>	<b>Overall Dimensions</b>	
1	Length	Vendor to Specify
2	Width	Vendor to Specify
3	Height	Vendor to Specify
4	Weight	Vendor to Specify
5	Minimum Ground Clearance	Vendor to Specify