Annexure I

SPECIFICATION FOR 35 - 40 TE MOBILE CRANE

S.N	Description	Specification for indent
٨	Concert Specification	
A	General Specification	David Tamain anala
	Type Conseitu	Rough Terrain crane
	Capacity	35 to 40 MT
	Boom Type	Telescopic
4	Boom Length (On fully extended condition)	Not less than 30 meters
В	Rated Capacity	
1	Maximum Capacity (On outriggers)	Vendor to specifty
2	Radius at which Maximum Capacity	Vendor to specifty
3	Minimum Capacity (On Outriggers)	Vendor to specifty
4	Radius at which Minimum Capacity	Vendor to specifty
5	Maximum Capacity with Fly Jib (On Outriggers)	Vendor to specifty
	Radius at which the maximum capacity (with fly Jib)	Vendor to specifty
	Maximum Capactity on Tyres	Vendor to specifty
	Minimum Capacity with Fly Jib	Vendor to specifty
	Radius at which the Minimum capacity (with fly Jib)	Vendor to specifty
<u> </u>	Deces	
C 1	Boom Boom Type	Telescopic, Full power, sequence sychronized, single lever
1	boon type	control, sliding on adustable & Replaceable low friction wear
-		pads
	No of Boom Sections	Vendor to specify
	Basic Boom Length	Between 9 to 12 meters
	Maximum Boom Length (in all sections extended condition)	Not less than 30 meters
5	Boom lifing arragements	Double acting Hydraulic cylinder with integral hold valve
D	Boom Luffing	
1	Minimum Angle	Not more than -1 degrees
	Maximum Angle	Inbetwwen 76 to 80 degrees
	Boom Slewing system	
	Slew system	360 degrees continuous rotation
	Slew brake system	Required. Party is to be mention the type
	Slew Speed	Vendor to Specify
4	Slewing Lock	Required. Party is to mention the type
F	Hoist system	
	Туре	Hydraulic
	Winch Capacity	Vendor to specify
	Drum Type	Grooved
	Wire Rope Type	Vendor to specify
	Wire Rope Diameter	Vendor to specify
	Line Speed (Unladen)	Vendor to specify
_		
G 1	Hook Block	Vandar to specify
	Capacity	Vendor to specify
	No of Sheaves	Vendor to specify
	Type of Sheaves	Vendor to specify
	Maximum No of Falls	Vendor to specify
	Type of Hook	Rams-Horn Type
	Additional Hooks	
	10-15 Te capacity	Required
8	Single Hook	Required
н	Engine	
1	Make	Should be of ruputed make like Cummins, Caterpillar,
	1	Mercedeze Benz, Volvo etc
2	Fuel	Diesel

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

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

S.N	Description	Specification for indent
14	Reverse lights	Required
U	Tyre Size	
1	Front	Vendor to Specify
2	Rear	Vendor to Specify
V	Overall Dimensions	
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