## Annexure-1

## **TECHNICAL SPECIFICATION**

## (25t.+25t. CAP. DOUBLE GIRDER EOT. CRANE HAVING 2 NOS. 25T. CAP. CRAB AS A HOISTING UNIT)

No.	Descriptions	Specifications
1	Equipments	25t+25t Cap. Double Girder EOT Crane (2 trolleys to work in
		tandem to lift 50T.)
2	Capacity	25t. +25t.
3	Test Load	125% of SWL
4	Span	24 meters
5	Height of Lift	8 meters
6	Duty & Class	Class-II, Medium Duty
7	IS Code	807, 3177
8	Туре	Double girder
9	Locations	In door
10	Construction of crane	
	End Carriages	The End Carriages are welded construction type and fabricated from
		plates and having box type constructions.
	Bridge Girders	The girders are of plate fabricated box type construction design to
		sustain all stresses arising due to vertical & lateral forces with impact
		to which they are subjected. The maximum deflection of the main
		girder is limited to 1/750 the span of live loads including the weight
		of the trolley or hoist.
	Platform	M.S. Checkered plate/anti skid full-length platform shall be provided
		one side of the bridge girder.
	End Stopper	Steel end stoppers are provided on either side of the bring to limit
		the motion of the trolley. All the buffers will employ springs for
		shack absorption.
11	Steel	Steel confirming to IS-2062 or equivalent is used in the
		manufacturing of the main load bearing.
12	Wheel Base	5000 mm(Approx.)
13	L.T. Drive System	Twin drive type.
14	Preferred Speed	All speed variation will be $\pm 10\%$
	Main-Hoisting	2 meter per minute
	L.T.	30 meters per minute
	C.T.	15 meters per minute
15	Ele. Motors	
	Main-Hoisting	15 HP x 6 Pole.S-4 duty, Squirrel cage type,40% CDF,150 S/hr.,
		IP -55 with Class F insulation2 Nos. ('Marathon' Make) with ABB,
		Delta or Reputed make Speed Variable Drive
	L.T.	7.5 HP x 4 Pole.S-4 duty, Squirrel cage motor, 40% CDF, 150 S/hr., IP
		– 55 with Class F insulation 2 Nos.(BBL Make) with Delta, ABB or
		reputed make Speed Variable Drive
	C.T.	3.0 HP x 4 Pole.S-4 duty, Squirrel cage motor, 40% CDF, 150 S/hr., IP
		– 55 with Class F insulation2 Nos. (BBL Make) with Delta ,ABB or

Reputed make Speed Variable Drive  All gearboxes, which are used in Hoisting, L.T. and C.T., a type with M.S. Fabricated Housing, Pinions and output so supported on antifriction type roller/ Ball bearings. All G Pinions are of En-19/En-9 materials precision machined cutting by hobbing machine duly hardened to with stand loads.  Brakes  Electro Hydraulic shoe type Φ300 -1 No. is providing in the and Electro Hydraulic thruster operated shoe type Φ150 brake is providing in the L.T. & 2 Nos. for the C.T. These automatically released when the motor circuit is on and	haft are Sears and and teeth d the heavy
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l automatically rologed whon the motor circuit is on and	
	is applied
the motor circuit is off	
18 Wire Rope (Main The make of wire rope will be used Usha-martin.(Φ22mi	m , 6x36
Hoist) steel core )	
19 No .of fall 6 falls	
20 Rope Drum The rope drum is of mild steel fabricated construction ha	
and left hand spiral grooves machined to suit the hoistin	
drum is of such length that there is not more than one la	ayer when
rope is full wound.	
21 Bottom Block Bottom Block Assembly consisting of forged steel hook s	
type as per IS 3815 mounted on thrust Ball Bearings, wit	h required:
diameter rope sheave and hook plates made out of stee	1
22 Wheels The wheel of the trolley & the end carriage will be used	forged steel
conforming to IS 2707 GR.II duty spin hardened to 300 B	HN or steel
cast EN-9, material, double flanged straight tread type fi	tted with
antifriction type bearings mounted on section type bear	ing housing
easy to maintenance.	
L.T. Φ500 – 4 Nos. (450 on tread)	
C.T. $\Phi$ 300 -4 + 4 Nos. (250 on Tread)	
23 Couplings Half Geared Couplings are provided where required of re	eputed make
24 Bearings All moving parts of the crane are supported on the anti f	friction type
ball/roller bearings. (all bearings are SKF/FAG/ZKL or equ	ual ant
make)	
25 Painting The structural parts of the crane are thoroughly cleaned	and applied
with two coats of red oxide and two coats of enamel pai	nts before
dispatch.	
26 Supply Voltage 41E 2ph E0hz Supply	
26 Supply Voltage 415, 3ph., 50hz., Supply.	
27 Control Voltage 415, 3pn., 50nz., Supply.	
27 Control Voltage 110V.	
27Control Voltage110V.28Total Connected load51 HP.	tactors,
27 Control Voltage 110V. 28 Total Connected load 51 HP. 29 Ele. Panel  Switch Gears BCH, L&T, Siemens, TC or your approved equivalent Conswitches are providing in Ele. Panel	tactors,
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		( Long travel in scope of purchaser)
33	Limit switches	One numbers rotary-geared type limit switch of reputed make is provided to prevent over lowering & over hoisting, two nos. lever
		type limit switches for L.T. & C.T. Motion will be provided to stop L.T. & C.T. Motion
34.	Crane Weight	48 M.T. (Estimated )