

SNSENGINEERING NTA PRIVATE LIMITED

H1-818-19, RHICO INDUSTRIAL AREA CHOPANKI,

BHIWADI - 301019, Alwar (Rajasthan),

E.MAIL:- sns@snsengg.com, snsengg@yahoo.com

Web:- www.snsengg.com, +917734054280



OFFER NO. - SNS/22-23/QTN-63/DEC
 Kind Attn. - Mr. Rupesh Ji
 M/S - Jindal Aluminium

DATE: 23 DEC. 2022

Annexure - I

TECHNICAL SPECIFICATION FOR D/G EOT CRANE CAP-7.5T SPAN-17.784 m

17.784 m x 8

1	Type of crane	: D/G EOT CRANE
2	Class of duty	: Class-II (M5), as per IS 3177, 807, 800
3	Capacity	: 7.5 T ✓
4	Qty. required	: 1 No.
5	Operating Environment	: Indoor
6	Span	: 17.784 m <i>17.10 metres</i>
7	Height of Lift:	: 8 m <i>11 meters</i>
8	Crane Control	: Operation Through Pendant push button Station from ground floor + <u>Radio Remote</u> → <i>10 Push Button CNT make.</i>
9	SPEED*	:
a.	Main Hoist	: 0.8-8.0 mpm (Through VVFD) ✓
b.	Cross Travel	: 3.5-35 mpm (Through VVFD) ✓
c.	Long travel	: 4.5-45 mpm (Through VVFD) ✓
10	MOTOR**	: <i>15HP</i>
a.	Main Hoist (KW/Pole/Type)	: 7.5 KW/6P / Sq. Cage.
b.	Cross Travel (KW/Pole/Type)	: 1.1 KW/ 4P /Sq. Cage Geared Brake Motor.
c.	Long travel (KW/Pole/Type)	: 2 X 1.5 KW/4P /Sq. Cage Geared Brake Motor. <i>3HP.</i>
e.	Make	: Alstom (Marathon) / BBL / Crompton / ABB / Nord / SIW / Bonfiglioli. <i>TOD @ all OK.</i>
	NOTE 1	: All Motors are, TEFC, MH-40% CDF, 150 Starts/hr., Crane Duty Motors, Class F Insulation, Temp rise limited to Class B.
11	WIRE ROPE	:
a.	No of Falls/Dia.	: 4/12 mm. <i>14 mm</i>
b.	Factor of Safety	: As Per IS 3177
c.	Type of core/construction	: <u>STEEL / 6X36</u> ✓
d.	Tensile Strength	: 180 kg / mm sq.,
e.	IS specification	: <u>IS 2266</u> ✓
f.	Make	: <u>USHA MARTIN.</u>
12	GEAR BOX	:
a.	Type of gear box	: MH: -Totally enclosed helical gear box CT & LT: -Geared Brake Motor.
b.	Material of Body	: CI Grade -FG-200, IS 210. ✓
c.	Material of Gears & Pinion	: Low carbon alloy Steel (20MnCr5, SAE-8620 or Equivalent), Hardened & profile ground. ✓
d.	Type of Lubrication	: Oil Splash Lubrication. ✓
13	ROPE DRUM	: Seamless Pipe as per ASTM A106.
14	BRAKES	: MH: - 2 Nos EHT Brake CT & LT: - All EM DC DISC Brakes ✓
	Make	: EHT: - Crane Control / Multitech DC Disc: - BBL/Emco. ✓

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15	LIMIT SWITCH	:	
a.	Main Hoist	:	Geared Rotary type & Gravity type. ✓
b.	Cross Travel	:	Two-way lever type. ✓
c.	Long Travel	:	Two-way lever type. ✓
d.	Make	:	Crane Control / SOC ✓
16	CRANE CONTROLS	:	
a.	Protective Panel	:	Consisting of MCCB, MCB Main line contactor, Step down transformer, Single Phase Preventer. ✓
b.	Drive Panel	:	Consisting of Contactor, MCB, Overload Relays. ✓
c.	Make	:	L&T/Standard/Siemens/Schneider. ✓
17	CABLES	:	Multi Core, PVC Sheathed flexible type.
a.	Make	:	Unique/Finolex/ECKO/KEI Any ISI mark. <i>Lapp only</i>
18	CURRENT COLLECTION	:	
a.	<u>Cross Travel</u>	:	Flexible cable moving on Dreg Chain → <i>IGus make</i>
b.	<u>Long travel</u>	:	Through Shrouded Type DSL (Client's Scope) → <i>ISL scope</i>
19	POWER SUPPLY	:	415 V, +/-10%, 3 phase, 50 Hz.
20	CONTROL VOLTAGE	:	110 V AC, 1 phase, 50 Hz.
21	COUPLING	:	Flexible geared coupling.
22	WHEELS	:	
a.	Type	:	Double flanged straight tread type.
b.	Material	:	Forging EN-8/9.
c.	Type of bearings	:	Antifriction Ball/roller.
d.	LT Wheel Dia./ qty.	:	∅ 200 / 4 qty / <i>As per design standards</i>
e.	CT Wheel Dia./ qty.	:	∅ 160 / 4 qty / <i>As per design standards</i>
23	HOOKS	:	
a.	Type	:	'C' type as per IS 15560.
b.	Swiveling	:	On thrust bearing.
c.	Make	:	Smriti Forging/mazumdar/mk forge ✓
24	BEARING	:	Antifriction Ball / Taper roller & Spherical roller etc. ✓
25	PLATFORM	:	
a.	Type	:	Steel Chequered plate with toe guard and two-tier hand railing on drive side full and other side two short platform shall be provided.
26	BUFFER	:	Rubber Buffer shall be provided for L.T & C.T.
27	L.T. RAIL (RECOMMENDED)	:	50LBS RAIL (Client's Scope). → <i>ISL scope</i>
28	PAINTING	:	The cranes shall be painted with two coats of zinc chromate primer followed by two coats of golden yellow synthetic enamel paint. / As per client's specification.
29	CRANE WEIGHT	:	9 T (Approximate) ✓
30	LT MAX WHEEL LOAD (Without impact)	:	7.3 T (Approximate) ✓

* SPEEDS OF MH, CT & LT ARE SUBJECTED TO ±10 % VARIATION AFTER DETAILED ENGINEERING.
 ** ACTUAL KW MAY VARY SUBJECTED TO FINAL CALCULATIONS. ✓

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Sr. No	DESCRIPTIONS	UOM	QTY	UNIT PRICE (RS.)	TOTAL AMOUNTS (RS.)
1	BASIC COST OF DESIGN, MANUFACTURING, SUPPLY OF D/G EOT CRANE CAPACITY - 7.5T, SPAN - 17.784M AND HEIGHT OF LIFT - 8 m CLASS-II.	NO.	1	25,00,000.00	25,00,000.00 (Rs. Twenty Five Lacs Only)
2	ERECTION & COMMISSIONING CRANE	Crane	1	1,00,000	1,00,000.00
3	Freight	Crane	1	EXTRA	AS PER ACTUAL
4	Rail Line 50 LBS Installation Charge (Material IN CLIENT' Scope)	Mtr	110	550	60500

Discussed with Mr. Navneet and agreed price 24,50,000/-
12/01/23
Rs. 26,56,000/-

ANNEXURE - III TERMS & CONDITIONS

- Prices
 - The above prices are on Ex-Work, Bhiwadi. FOR-JOL BNDP
 - Offer Validity
 - ~~10 days~~ Unloady of crane included in above price
 - Warranty
 - 12 Months from the date of commissioning or 18 Months from the date of supply
 - Taxes & Duties
 - All taxes and duties shall be charged extra as applicable at the time of dispatch. However, the current GST is @18.00%.
 - Freight
 - ~~Freight Extra AS PER ACTUAL.~~ Included in above price.
 - Delivery
 - ~~06-08 weeks~~ from the date of approval of GA Drawing
 - Payment Terms
 - 50% advance along with Purchase order
 - Balance 40% before dispatch + 10% After Dispatch. AS below.
 - Others
 - First fill of Gear box & Thruster oil shall be provided by you. - JAL SCOPE
 - Unloading of material at your site in your scope. - Paddy Scope.
 - Civil work involves if any shall be in your scope
 - Dead Load For Load Test at your site under the crane in your scope.
- Inspection / testy - 3rd party load testy will be done by party at one site and certificate will be provided.*
- For Payment: 30% Advance against submission of PRG valid for 10 weeks.*
- 60% + 100 GST within 7 days from the date of receipt of crane.*
- 10% After commissioning subject to submission of PRG valid for one year*

Navneet Saraswat
 Director Marketing
 Mob: 98290123
 54280

A. ANNEXURE - II
A1. TECHNICAL SPECIFICATION FOR 7.5 MT, 17.100 MTR. SPAN DG EOT CRANE

1.	Type of Crane	<u>DOUBLE GIRDER EOT CRANE</u>
2.	Class of duty	<u>Class II (M5) as per IS :3177, 807, 800</u>
3.	Capacity	<u>7.5 MT</u>
4.	Qty required	<u>1 Nos.</u>
5.	Operating Environment	<u>Indoor, Ambient Temperature 50°C</u>
6.	Span	<u>17.100 Mtr.</u>
7.	Height of Lift MH	<u>11.0 Mtr.</u>
8.	Crane Control	<u>Through Independent Pendant Push Button & RRC</u> → <i>SNT make 10 motion</i>
9.	SPEED	
a.	Main Hoist	<u>0.80 – 8.0 MPM Through VVFD</u> ✓
b.	Cross Travel	<u>3.0 – 30.0 MPM Through VVFD</u> ✓
c.	Long Travel	<u>4.5 – 45.0 MPM Through VVFD</u> ✓
10.	MOTOR	
a.	Main Hoist	<u>15.0 Kw Sq. Cage Motor</u> ✓
b.	Cross Travel	<u>1.1 Kw Sq. Cage (Geared Motor)</u>
c.	Long Travel	<u>2 x 3.0 Kw Sq. Cage (Geared Motor)</u>
d.	Make	<u>Marathon/ BBL/Crompton/SEW etc.</u> <u>All motors are TEFC 40% CDF, 150 starts/hr., Crane duty, class F insulation.</u>
11.	WIRE ROPE	
a.	No of Falls/Dia MH	<u>4/14 mm</u> ✓
b.	Type of Construction IS Specification	<u>FMC/Steel Core / 6 x 36 / 180 Kg/sq. mm</u> <u>IS 2266</u>
c.	Make	<u>USHA MARTIN</u> ✓
12.	GEAR BOX	
a.	Type of Gear Box	<u>Helical Gear Box</u> ✓
b.	Material of Body	<u>CI Grade-FG-20, IS-210</u> ✓
c.	Material of Gears & Pinion	<u>20 MnCr5, SAE-8620, EN9/19/24</u> ✓
d.	Type of Lubrication	<u>Oil Splash Lubrication</u> ✓

13.	ROPE DRUM	Seamless Pipe as per ASTM A106
14.	BRAKES	MH- EHT BRAKE CT & LT - EM DISC TYPE
15.	LIMIT SWITCH	
a.	Main Hoist	Rotary + Gravity type ✓
b.	Cross Travel/Long travel	Two Way Lever Type ✓
c.	Make	Speed O Control/CCE ✓
16.	CRANE CONTROLS	
a.	Protective Panel	Consisting MCCB, MCB Main line contactor, Step down transformer, Single Phase Preventer ✓
b.	Drive Panel	Consisting Contactor, MCB, Overload Relays.
c.	Make	L&T/Siemens/Schneider.
17.	CABLES	Multi Core, PVC Sheathed flexible type
a.	Make	Finolex/KEI /Heatflex/Powerage Any ISI Mark <i>Poly cab</i>
18.	CURRENT COLLECTION	
a.	Cross Travel	Four trolley moving on I Beam — <i>By Drag Chain - Equal Make</i>
b.	Long Travel	Through Shrouded Bus Bar DSL
19.	Power Supply	415V, +/-10%, 3 phase, 50 Hz
20.	Control Voltage	110V AC, 1phase, 50Hz
21.	WHEELS	
a.	Type	LT Double flanged straight tread, CT Double flange type
b.	Material	EN 8/9
c.	Type of bearings	Antifriction Ball/Roller
23.	HOOKS	
a.	Type in MH	C Type Hook
b.	Swivelling	On Thrust Bearing
c.	Make	Smriti Forging
24.	Bearing	Antifriction Ball/Roller
25.	PLATFORM	
26.	Buffer	Rubber Buffer shall be provided for LT
27.	PLATFORM ✓	



A. COMMERCIAL TERMS
B. Product Pricing

Des.	Brief Specification	Quantity		Supply Price in INR	
		Nos	Unit	Unit	Total
A1	5-MT X 23.200 Mtr. Span D/G EOT Crane	1	EACH	27,00,000	27,00,000
A2	7.5 MT X 17.100 Mtr. Span D/G EOT Crane	1	EACH	28,00,000	28,00,000
A3	Supply of Shrouded Bus Bar type DSL	80 MTR.	EACH	1500	1,20,000

ERECTION & COMMISSIONING

Des.	Brief Specification	Quantity		Supply Price in INR	
		Nos	Unit	Unit	Total
A1	5 MT X 23.700 Mtr. Span D/G EOT Crane	1	EACH	50,000	50,000
A2	7.5 MT X 17.100 Mtr. Span D/G EOT Crane	1	EACH	50,000	50,000
A3	DSL Installation <i>Roof Installation</i>	80 MTR	EACH	500	40,000

NOTES:-

- All the civil work including foundation for LT Rails shall be in client scope.
- LT End Stopper is in client scope.
- First Fill of oil shall be in Client scope.
- Mobile Crane, Gus Cutter, Welding set required for erection shall be in Client scope.
- Please refer to the customer responsibility clause below to understand the scope of work.
- Transportation charges extra at actual.

Handwritten calculations:
 R. 56,000/-
 R. 50,000/-
 R. 28,86,000/-
 R. 25,000/-
 R. 29,11,000/-
Final Rate
R. 28,850/-

All ex-works prices quoted are exclusive of taxes, insurance, octroi and transportation, and are payable at actual at rates ruling at the time of delivery. GST @ 18% applicable on supplies, services and transportation charges extra at actuals.

104. PAYMENT TERMS FOR SUPPLY

SUPPLY PORTION

30% of supply value as advance along with confirmed order.
70% of supply value with 100% taxes & duties against Proforma Invoice before dispatch.

ERECTION PORTION

100% of erection value after erection and commissioning at site.

SUPPLY PORTION EX WORKS Gayatri Construction Machinery

4-5 Weeks after approval of GA Drawings and receipt of advance, whichever is later.

ERECTION PORTION

30 days after receipt of material at site, subject to site readiness and other factors outside the influence of the manufacturer.

Handwritten notes:
 Discuss with agent about
 Unload of crane - Party scope
 Inspection load test. Party will arrange 3rd Party load test at one site and ceiling
 24/1/23



AJSIM Industrial Services Pvt Ltd.

Works - Plot no 18, Pali Bhakri Road, Pali,, Faridabad.121005
Ph. 08094405989, 09990898551 ajsim_services@gmail.com, www.ajsimindia.com

Annexure - I

TECHNICAL PARAMETER OF D.G. E.O.T. CRANE CAPACITY 7.5 TONS, 17.0 MTR. SPAN, 11.0 MTR. LIFT

Main technical points:

- | | | | |
|---|-----|------------------------|--|
| → | 1. | Type of crane | : <u>Double Girder EOT Crane</u> |
| → | 2. | Location | : <u>Indoor</u> |
| → | 3. | Qty. | : <u>1 No.</u> |
| → | 3. | Class | : <u>M7 (III) as per IS:3177,IS:800 & IS:807</u> |
| → | 4. | Capacity
Main Hoist | : <u>7.5T</u> ✓ |
| | 5.. | Span | : 17.0 mtr. <u>17.10</u> |
| → | 6. | Height Of Lift | : <u>11.0 Mtr.</u> ✓ |
| → | 7.. | Total Crane travel | : <u>80 mtr</u> ✓ |
| → | 7. | Speed | |
| | | - Main Hoist | : <u>8.0 Mtr/min With</u> ✓ |
| | | - Cross Travel | : <u>30.0 mtr./min With</u> ✓ |
| | | - Long Travel | : <u>45.0 mtr./min With VVVF Drive</u> ✓ |
| → | 8. | Motors | : CGL//BBL Make |
| | | Main Hoist | |
| | → | - Rated HP | : <u>15.0 HP, Sq. Cage</u> |
| | → | - Duty | : <u>S-4 duty</u> |
| | → | - Type | : <u>150 starts/hr, inverter duty, F-class, TEFC</u> |
| | → | - CDF | : <u>40%</u> |
| → | | Cross Travel | |
| → | | - Rated HP | : <u>3.0 HP, Sq. Cage</u> ✓ |
| → | | - Duty | : <u>S-1 duty</u> ✓ |



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Ph. 08094405989, 09990898551 ajsim.services@gmail.com, www.ajsimindia.com

- - Type : 150 starts/hr, inverter duty, F-class, TEFC
→ - CDF : 40%
→ **Long Travel:**
→ - Rated HP : 3.0 HP, (02 no), Sq. Cage ✓
→ - Duty : S-1 duty ✓
→ - Type : 150 starts/hr, inverter duty, F-class, TEFC ✓
→ - CDF : 40% ✓
9. Gearbox casing : Gray cast iron/Fabricated
- Material of Gears & Pinions : EN9/EN 24 – BS970, ✓
- 10. Operation : By Pendent Push Button floor operated → ϕ RRC
- 11. Limit Switches : Rotary + Gravity Type
1 No. Lever limit switch (2-way type) for CT
1 No. Lever limit switch (2-way type) for LT
- 12. Panels : Crane mounted, dust proof
and maintenance friendly, having
MCB's, brake contactors, over load relay
etc.
- 13. Type of Hook : (C) Hook, Swiveling type with safety
latch, and Thrust Bearing swivel
- 14. Cables : Flat Cable make - **Polycab / KGI**
- 15. Brakes :
M.H. : Thruster Brake ✓
C.T. & L.T. : Thruster Brake ✓
- 16. Wheel material : EN-9 (Forged alloy steel)
- CT size & nos. : ϕ 250, 04 nos. / AS per ~~IS~~ EC standards.
- LT size & nos. : ϕ 300, 04 nos.
- 17. Rope Drum : Seam Less Pipe
- 18. Rope size :
Main Hoist : ϕ 14 mm / 4 Fall, Fiber core, 180kg/mm², 4 falls.
- 19. Power supply : 415V±10%, 3-phase, 50Hz



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- 21. Bridge Girder : Box Beam type IS:2062,
- 23. DSL : Client Scope

Make of Various Brought Out Items

- Motors :- Bharat Bijlee (BBL) / Macathon
- Brake :- Thruster Brake
- Wire Rope :- Usha Martin
- Gear Box - Own Make
- Cables :- Finotex/KEI Any ISI mark / or Polycab make / Lapp cables proof
- Switch Gears :- L&T/Standard/Siemens.
- Limit Switch : Multitek System Make.
- Bearing:- ZKL Make.
- Cables :- Polycab Make OR any ISI Marked. KEI Make

COMERCIAL TERMS AND DETAIL (For 1 Crane)

S.NO.	DESCRIPTION	UNIT PRICE (In Rs.)	TOTAL QTY.	TOTAL PRICE (In Rs.)
1	Basic price of crane Double girder type 7.5T	25,65,000	1 No.	25,65,000 ✓
2.	Erection and Commissioning of Crane,	35,000 / Crane	1 No.	35,000 ✓
3.	DSL Shrouded type — <u>JAL SLOPE</u>			Client scope
4.	Current collector — <u>JAL SLOPE</u>		1 Set	Client scope
5.	Freight	65000	1 Set	65000 ✓
	TOTAL			26,65,000

Note For VVVF Drive In MH and GF VVVF Drive cost will be extra

- Price : FOR JAL - BWP.
- Client scope :- Extra
- Delivery during erection
- 2. Taxes
- Payment: 35% Advance,
55% With 100% GST against
profession Invoice before dispatch.
10% After commissioning subject to submission of
P&G valid for one year.
- 3rd party inspection by party at JAL

Rs. 25,58,400 / -
 final Ag
 Rs. 24,56,000 / -

(PTO)

→ Unlucky of name: Party A/c.

→ Tools / rackets / manpower for execution is in party scope

Discussed with
Mr. Ajit Mungar and
agreed above.

Jeevan
24/01/23