

SNS ENGINEERING NTA PRIVATE LIMITED

#1-818-19, RIICO 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-71/JAN
 Kind Attn. - Mr. Rupesh Ji
 M/S - Jindal Aluminium

DATE: 12 JAN. 2023

Annexure - I

TECHNICAL SPECIFICATION FOR D/G EOT CRANE CAP-7.5T SPAN-23.200 m

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	: 23.200 m ✓
7	Height of Lift:	: 8 m → 11 meters ✓
8	Crane Control	: Operation Through Pendant push button Station from ground floor + Radio Remote → SNT make - 10 motion (10 push) Button ✓
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**	:
a.	Main Hoist (KW/Pole/Type)	: 7.5 KW / 6P / Sq. Cage. 10 KW ✓
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. 3 HP. ✓
e.	Make	: Alstom (Marathon) / BBL / Crompton / ABB / Nord / SEW / Bonfiglioli. ✓
	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.	: 4/13 mm. 14000 ✓
b.	Factor of Safety	: As Per IS 3177 ✓
c.	Type of core/construction	: STEEL / 6X36 ✓
d.	Tensile Strength	: 180 kg / mm sq., ✓
e.	IS specification	: IS 2266.
f.	Make	: USHA MARTIN. ✓
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. ✓

✓ Confirmed

SNSENGINEERING NTA PRIVATE LIMITED

H1-818-19, RIICO 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-71/JAN
 Kind Attn. : Mr. Rupesh Ji
 M/S - Jindal Aluminium

DATE: 12 JAN. 2023

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/BCKO/KEI Any ISI mark. <i>Lopt only</i>
18	CURRENT COLLECTION	:	
a.	Cross Travel	:	Flexible cable moving on Dreg Chain <i>Drag Chain</i> <i>Doag Chain</i>
b.	Long travel	:	Through Shrouded Type DSL (Client's Scope) <i>DSL</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.	:	Ø 200 <i>4</i>
e.	CT Wheel Dia./ qty.	:	Ø 160 <i>4 Qty</i>
23	HOOKS	:	
a.	Type	:	'C' type as per IS 15560.
b.	Swiveling	:	On thrust bearing.
c.	Make	:	Smiriti 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)	:	50 LB RAIL (Client's Scope) <i>50L 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	:	15 T (Approximate)
30	LT MAX WHEEL LOAD (Without impact)	:	8 T (Approximate)

* SPEEDS OF MH; CT< ARE SUBJECTED TO ±10 % VARIATION AFTER DETAILED ENGINEERING.

** ACTUAL KW MAY VARY SUBJECTED TO FINAL CALCULATIONS.



OFFER NO. - SNS/22-23/QTN-71/JAN
 Kied Attn. - Mr. Rupesh II
 M/S - Jindal Aluminium

DATE: 12 JAN. 2023

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 - 23.200M AND HEIGHT OF LIFT - 11 meters CLASS-II.	NO.	1	29,80,000.00	29,80,000.00 (Rs. Twenty Nine Laacs Eighty Thousand 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) → Rails by - JAL	Mtr	80 meters 110 x 2 nos = 220 meters	550 Rs. USD / -	60500 Rs. 36000 / - Rs. 99000 / -

→ TC cable diameter: Drag Chain Type - Igus Make
 3,11,600/-

ANNEXURE - III TERMS & CONDITIONS

1	Prices	• The above prices are on Ex - Work, Bhiwadi. FOR JAL BWP.
2	Offer Validity	• 10 days
3	Warranty	• 12 Months from the date of commissioning or 18 Months from the date of supply
4	Taxes & Duties	• All taxes and duties shall be charged extra as applicable at the time of dispatch. However, the current GST is @18.00%
5	Freight	• Freight Extra AS PER ACTUAL. Included in above.
6	Delivery	• 00-08 Weeks from the date of approval of GA Drawing.
7	Payment Terms	• 50% advance along with Purchase order • Balance 40% before dispatch + 10% After Dispatch. (P.T.O)
8	Others	• First fill of Gear box & Thruster oil shall be provided by you. • Unloading of material at your site in your 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.

→ Party will submit GA Drawing for approval.
 → 3rd Party Load Test will be done by party and charges are included in above.
 → Crane Unloading - Party scope.
 → LT rail erection - Included.
 → Navneet Saraswat, Director Sales & Marketing, Mob - +917734054280
 → Party let certificates, warranty certificates will be provided by party. (P.T.O)

- Payment: 30% Advance against ABG valid for 60 days
- 60% with 100% GST after receipt of crane within 7 days
- 10% after successful commissioning subject to submission of PBG valid for one year from the date of commissioning.

Discussed with Mr. Anand
and agreed above
rate


14/01/23

A. ANNEXURE - I

A1. TECHNICAL SPECIFICATION FOR 7.5 MT, 23.200 MTR. SPAN DG EOT CRANE

1.	Type of Crane	DOUBLE GIRDER EOT CRANE ✓
2.	Class of duty	Class II (M5) as per IS :3177, 807, 800
3.	Capacity	7.5 MT ✓
4.	Qty required	1 Nos.
5.	Operating Environment	Indoor, Ambient Temperature 50°C ✓
6.	Span	23.200 Mtr. ✓
7.	Height of Lift	
	MH	11.0 Mtr. ✓
8.	Crane Control	Through Independent Pendent Push Button & RRC
9.	SPEED	
a.	Main Hoist	0.80 - 8.0 MPM Through VVFD ✓
b.	Cross Travel	3.0 - 30.0 MPM Through VVFD 35 mpm
c.	Long Travel	4.5 - 45.0 MPM Through VVFD ✓
10.	MOTOR	
a.	Main Hoist	15.0 Kw ^{HP} Sq. Cage Motor
b.	Cross Travel	1.1 Kw Sq. Cage (Geared Motor)
c.	Long Travel	2 x 3.0 Kw ^{HP} Sq. Cage (Geared Motor)
d.	Make	Marathon/ BBL/Compton/SEW etc. All motors are TEFC 40% CDF, 150 starts/hr., Crane duty, class F Insulation.
11.	WIRE ROPE	
a.	No of Falls/Dia	
	MH	4/14 mm ✓ ✓
b.	Type of Construction	FMC/Steel Core / 6 x 36 / 180 Kg/sq. mm
	IS Specification	IS 2266 ✓
c.	Make	USHA MARTIN ✓
12.	GEAR BOX	
a.	Type of Gear Box	Helical Gear Box ✓
b.	Material of Body	CI Grade-FG-20, IS-210
c.	Material of Gears & Pinion	20 MnCr5, SAE-8620, EN9/19/24
d.	Type of Lubrication	Oil Splash Lubrication

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	Finalex/KEI/Heatflex/Powerage-Any 1ST Mark <i>KED Make</i>
18.	CURRENT COLLECTION	
a.	Cross Travel	Four trolley moving on I Beam ✓
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	7.5 MT X 23.200 Mtr. Span D/G EOT Crane	1	EACH	30,00,000	30,00,000
A2	Supply of Shrouded Bus-Bar type DSL	80	EACH	1500	1,20,000

JAL SCOPE

ERECTION & COMMISSIONING

Des.	Brief Specification	Quantity		Supply Price in INR	
		Nos	Unit	Unit	Total
A1	7.5 MT X 23.200 Mtr. Span D/G EOT Crane	1	EACH	50,000	50,000
A2	DSL Installation	80	EACH	500	40,000

NOTES:-

- All the civil work including foundation for LT Ralls 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.

→ LT Rall Installation Rs. 50/- per unit x 80 = Rs. 55,000/-
Total: Rs. 36,000/-

Final Rate Total: Rs. 31,50,000/-
Total: Rs. 30,86,000/-

B7. PACKING & PORTLANDING
2% extra

→ Price Basis! FOR - JAL Bhivadi.

B8. TAXES & DUTIES FOR SUPPLY

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, transportation charges extra at actuals.

→ GST: 18% Extra.
→ Delivery: 4 to 5 weeks from the date of order.

B9. 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.

→ Proforma: 90% basic + 100% GST with 7 days from the date of receipt of leave.

ERECTION PORTION

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

B10. DELIVERY TERMS FOR SUPPLY

SUPPLY PORTION EX WORKS, Gayatri Construction Machinery.

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

10% After commissioning subject to submission PBG valid for one year.

ERECTION PORTION

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

→ Warranty: 12 months from the date of commissioning.

B11. TESTING & COMMISSIONING

→ 3rd Party Load testing will be done by party at one site and test report will be provided.
Load will be provided by JAL at site.

DISCussed with Mr. Aniket on 20/01/23



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, 23.2 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.	: 1 No.
	3.	Class	: <u>M7 (III) as per IS:3177,IS:800 & IS:807</u>
→	4.	Capacity Main Hoist	: <u>7.5T</u>
→	5.	Span	: <u>23.2 mtr.</u>
→	6.	Height Of Lift	: <u>11.0 Mtr.</u> 23.2 mtr <u>11 meters</u>
→	7.	Total Crane travel	: 80 mtr
	7.	Speed	
→		- Main Hoist	: <u>8.0 Mtr/min</u> <u>Required 02 to 35 mpm</u>
→		- Cross Travel	: <u>30.0 mtr./min</u> <u>30</u>
→		- Long Travel	: <u>45.0 mtr./min</u> With VVVF Drive
	8.	Motors	: <u>CGL//BBL Make</u>
		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>



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

- - 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 *with 10 motor's CNT and*
- 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 : Round Cable make - Polycab
- 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.
- LT size & nos. : ϕ 360, 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 \pm 10%, 3-phase, 50Hz



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

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

Make of Various Brought Out Items

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

with 10% commission

CHECK LIST

DISCOUNT: *Rate as below.*

PRICE BASIS : FOR G.I.WADL. *FOR-JAL BW?*

P & F : INCL. EXTRA

GST/IGST : *IGST: 18% Extra*

DELIVERY : *45 days from the date of advance.*

PAYMENT : *35% Advance*
55% against Progress
10% after commission

WARRANTY: *one year against manufacturer*

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	31,75,000	1 No.	31,75,000
2	Erection and Commissioning of Crane.	45,000 / Crane	1 No.	45,000
3	DSL Shrouded type <i>Any changes</i>			Client scope
4	Current collector		1 Set	Client scope
5	Freight	95000	1 Set	95000
	TOTAL			33,15,000

Final agreed by Pally

Note For VVVF Drive In MH and CT - VVVF Drive cost will be extra

Rs. 31,82,000/-

Client scope :-

- 1. ~~Hydra~~ during erection *Included*
 - 2. Taxes
- 3rd Party load test will be done by pally and certificate will be provided by pally.*

Discussed with muneja and agreed above rate

19/01/23.