

# SNSENGINEERING NTA PRIVATE LIMITED

H1-818-19, RIICO INDUSTRIAL AREA CHOPANKI,  
BHIWADI - 301019, Alwar (Rajasthan),

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Web:- [www.snsengg.com](http://www.snsengg.com), +917734054280



OFFER NO. - SNS/22-23/QTN-64/Dec  
Kind Attn. - Mr. Rupesh Ji  
M/S - Jindal Aluminium

DATE: 27 DEC. 2022

## Annexure - I

### TECHNICAL SPECIFICATION FOR D/G EOT CRANE CAP-3 T SPAN-25.948 m

1	Type of crane	: D/G EOT CRANE. ✓
2	Class of duty	: Class-II (M5), as per IS 3177, 807, 800.
3	Capacity MH	: 3 T ✓
4	Qty. required	: 1 No.
5	Operating Environment	: Indoor ✓
6	Span	: 25.948 m ✓
7	Height of Lift:	: 11 m ✓
8	Crane Control	: Through Pendant Push Button Station from Ground level. ✓
9	<b>SPEED*</b>	: <b>RRC 10 motion SNT make</b> ✓
a.	Main Hoist	: 0.8-8.0 MPM (Through VVFD) ✓
b.	Cross Travel	: 3.0-30.0 MPM (Through VVFD) ✓
c.	Long travel	: 5.0-50.0 MPM (Through VVFD) ✓
10	<b>MOTOR**</b>	: <b>7.5 KW</b>
a.	Main Hoist (KW/Pole/Type)	: 5.5 KW/6P/ Sq. Cage, 40% CDF, 150 Starts/hr.
b.	Cross Travel (KW/Pole/Type)	: 0.55 KW/4P/ Sq. Cage, 40% CDF, 150 Starts/hr.
c.	Long travel (KW/Pole/Type)	: 2 X 1.5 KW/4P/ Sq. Cage, 40% CDF, 150 Starts/hr. <b>3HP.</b>
d.	Make	: BBL / Crompton / Marathon/ ABB/NORD/SEW/ICB/ROTOMOTIVE/BONFIGLIOLI etc
	<b>NOTE 1</b>	: All Motors are Crane Duty Motors, Class F Insulation, Temp rise limited to Class B. ✓
11	<b>WIRE ROPE</b>	:
a.	No of Falls/Dia.	: Main Hoist: 4/9 mm. <b>10 mm</b> ✓
b.	Factor of Safety	: As Per IS 3177:1999. ✓
c.	Type of core/construction	: Fibre Core/ 6X36 ✓
d.	Tensile Strength	: 180 kg / mm sq. ✓
e.	IS specification	: IS 2266.
f.	Make	: USHA MARTIN. ✓
12	<b>GEAR BOX</b>	:
a.	Type of gear box	: Totally enclosed helical gear box ✓
b.	Material of Body	: CI Grade -FG-200, IS-210/Fabricated from MS plate as per IS 2062 Gr. A/B. ✓
c.	Material of gear & Pinion	: 20MnCr5/16MnCr5/SAE8620/Equivalent ✓
d.	Type of Lubrication	: Oil Splash Lubrication. ✓
13	<b>ROPE DRUM</b>	: Seamless Pipe as per ASTM A106. ✓
14	<b>BRAKES</b>	: MH-All EHT Brakes CT & LT- All EMDC Disc Brake ✓
	Make	: EHT-CCE/SOC/SPEEDAGE/SOC/KATEEL EMDC- BBL/EMCO/CGL/UNITORQUE ✓
15	<b>LIMIT SWITCH</b>	:
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 / Multitech

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16	<b>CRANE CONTROLS</b>	:	
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/Siemens/Schneider.
17	<b>CABLES</b>	:	Multi Core, PVC Sheathed flexible type.
a.	Make	:	LAPP/OFLEX/KEIPLOYCAB/Unique- (Capp only)
18	<b>CURRENT COLLECTION</b>	:	
a.	Cross Travel	:	Through festoon trailing cable on 4 wheeled trolleys running on C-Track. Dog chain provided.
b.	Long travel	:	Through DSL (Client Scope) → JOL scope & gus make.
19	<b>POWER SUPPLY</b>	:	415V, +/-10%, 3 phase, 50 Hz.
20	<b>CONTROL VOLTAGE</b>	:	110V AC, 1 phase, 50Hz.
21	<b>COUPLING</b>	:	Flexible geared coupling.
22	<b>WHEELS</b>	:	
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 / 4
e.	CT Wheel Dia./ qty.	:	Ø 160 / 4
23	<b>HOOKS</b>	:	
a.	Type	:	Main Hoist: - 'C' type as per IS 15560.
b.	Swiveling	:	On thrust bearing.
c.	Make	:	Smiriti Forging.
24	<b>BEARING</b>	:	Antifriction Ball / Taper roller & Spherical roller etc.
a.	Make	:	SKF/FAG/NBC/NTN
25	<b>PLATFORM</b>	:	
a.	Type	:	Steel Chequered plate with toe guard and two-tier hands railing on drive side full length platform shall be provided.
26	<b>BUFFER</b>	:	Rubber Buffer shall be provided for L.T & C.T.
27	<b>L.T RAIL (Recommended)</b>	:	50X50 SQ. BAR (Client's Scope).
28	<b>PAINTING</b>	:	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. — 50% Scope
29	<b>CRANE WEIGHT</b>	:	15 T (Approximate)
30	<b>LT MAX WHEEL LOAD (Without impact)</b>	:	5.6 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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DATE: 27 DEC. 2022

Sr. No	DESCRIPTIONS	UOM	QTY	UNIT PRICE (RS.)	TOTAL AMOUNTS (RS.)
1	BASIC COST OF DESIGN, MANUFACTURING, SUPPLY OF D/G EOT CRANE CAPACITY - 3T, SPAN - 25.948M AND HEIGHT OF LIFT- 11 m CLASS-II.	NO.	1	26,30,000.00	26,30,000.00 (Rs. Twenty Six Lacs Thirty Thousand Only)
2	ERECTION & COMMISSIONING CRANE	Crane	1	60,000	60,000.00
3	Freight	Crane	1	EXTRA	AS PER ACTUAL
4	50 X 50 Sq Baar Installation (Sq Baar in Client Scope)	MTR	84	450	37800 AS PER ACTUAL Include of last rate

*Discussed with Mr. Navneet and cyced 23/11/23*

*Issue 21/01/23*

*Rs 27,27,800*

## ANNEXURE - III TERMS & CONDITIONS

1	Prices	• The above prices are on Ex - Work, Bhiwadi.
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.
6	Delivery	• 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.
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.

*Discussed with Mr. Navneet and cyced 20/11/23*

*FOR JOL BND. Freight Charges included in above price.*

*Unloading and unloading of 6 to 8 weeks are also included in above price.*

*as below*

*3rd party inspection will be arranged by party and certificate will be provided by party. LT and installation is included in above price.*

*ESI / PF JOL etc.*

*30% advance against submission of PDS valid for 70 days from the date of sub 60% with 100% GST within 7 days from the date of receipt of leave.*

*10% After successful commissioning subject to submission of PDS valid for one year from the date of commissioning.*

Navneet Saraswat  
Director Sales & Marketing  
Mob - +917734054280

**A. ANNEXURE - I**

**A1. TECHNICAL SPECIFICATION FOR 3 MT, 25.948 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	3 MT ✓
4.	Qty required	2 Nos. ✓
5.	Operating Environment	Indoor, Ambient Temperature 50°C
6.	Span	25.948 Mtr. ✓
7.	Height of Lift	
	MH	11.0 Mtr. ✓
8.	Crane Control	Through Independent Pendant Push Button & RRC — SNT Make
9.	SPEED	10 motion
a.	Main Hoist	0.80 – 8.0 MPM Through VVFD ✓
b.	Cross Travel	3.0 – 30.0 MPM Through VVFD ✓
c.	Long Travel	4.5 – 45.0 MPM Through VVFD ✓
10.	MOTOR	
a.	Main Hoist	7.5 Kw Sq. Cage Motor
b.	Cross Travel	0.75 Kw Sq. Cage (Geared Motor)
c.	Long Travel	2 x 2.2 Kw Sq. Cage (Geared Motor) ✓
d.	Make	Marathon/ BBL/Crompton/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	4/10 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 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 ✓ <del>Lapp make</del> /KEI/ Polyka
18.	CURRENT COLLECTION	
a.	Cross Travel	THROUGH DRAG CHAIN MACHANISM → figs make e.
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	3 MT X 25.948 Mtr. Span D/G EOT Crane	2	EACH	23,80,000	47,60,000
A2	Supply of Shrouded Bus Bar type DSL	84	EACH	1500	1,26,000
			MTR.		

ERECTION & COMMISSIONING

Des.	Brief Specification	Quantity		Supply Price in INR	
		Nos	Unit	Unit	Total
A1	3 MT X 25.948 Mtr. Span D/G EOT Crane	1	EACH	50,000	50,000
A2	DSL Installation <i>Rail Installation</i>	84	EACH	500 <i>450</i>	42,000 <i>37800</i>
			MTR		

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.

C. PACKING & FORWARDING

2% extra

D. 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.

E. 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.

F. DELIVERY & SUPPLY

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

G. INSPECTION & WARRANTY

10% After successful commissioning  
Subject to submission of PBQ valid for one year from the date of commissioning

Warranty: 12 months from the date of commissioning.

3rd party load test will be done by party and certified will be provided. Load test at our site.

*Rs. 24,67,800/-*  
*Rs. 25,000/-*  
*Rs. 24,92,800/-*  
*Rs. 24,92,000/-*

*Freight*

*Dr. Subhash Chandra...*  
*24/12/23*



# AJSIM Industrial Services Pvt Ltd.

Works - Plot no 18, Pali Bhakri Road, Pali,, Faridabad.121005  
Ph. 08094405989, 09990898551 [ajsim.services@gmail.com](mailto:ajsim.services@gmail.com), [www.ajsimindia.com](http://www.ajsimindia.com)

## Annexure - I

### TECHNICAL PARAMETER OF D.G. E.O.T. CRANE CAPACITY 3 TONS, 25.948 MTR. SPAN, 11.0 MTR. LIFT

3 TON

#### Main technical points:

- 1. Type of crane : Double Girder EOT Crane
- 2. Location : Indoor
- 3. Qty. : 1 No.
- 3. Class : M8 (IV) as per IS:3177,IS:800 & IS:807
- 4. Capacity Main Hoist : 3T
- 5. Span : 25.948 mtr.
- 6. Height Of Lift : 11.0 Mtr.
- 7. Total Crane travel : 110 mtr
- 7. Speed
  - Main Hoist : 8.0 Mtr/min
  - Cross Travel : 30.0 mtr./min
  - Long Travel : 45.0 mtr./min With VVVF Drive
- 8. Motors
  - Main Hoist
    - Rated HP : 7.5 HP, Sq. Cage
    - Duty : S-4 duty
    - Type : 150 starts/hr, inverter duty, F-class, TEFC
    - CDF : 40%
  - Cross Travel
    - Rated HP : 1.0 HP, Sq. Cage
    - Duty : S-1 duty



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- |   |   |
|---|---|
| - Type<br>- CDF<br><b>Long Travel:</b><br>- Rated HP<br>- Duty<br>- Type<br>- CDF | : 150 starts/hr, inverter duty, F-class, TEFC<br>: 40%  |
| → 9. Gearbox casing<br>- Material of Gears & Pinions                              | : Gray cast iron/Fabricated<br>: EN9/EN 24 - BS970,   |
| → 10. Operation<br>6+2 Way  | : By Pendant Push Button floor operated + RADIO Remote SNT -  |
| → 11. Limit Switches  | : 2 No. ROTARY + GRAVITY Type<br>1 No. Lever limit switch (2-way type) for CT<br>1 No. Lever limit switch (2-way type) for LT |
| → 12. Panels  | : Crane mounted, dust proof<br>and maintenance friendly, having<br>MCB's, brake contactors, over load relay<br>etc.           |
| → 13. Type of Hook  | : (C) Hook, Swiveling type with safety<br>latch, and Thrust Bearing swivel  |
| → 14. Cables  | : Flat Cable make - <b>Polycab</b> or <b>KBT</b> <i>φ Loop make for CT</i>  |
| → 15. Brakes<br>M.H.<br>C.T. & L.T.   | :<br>: EHT Brake dia 200*18 Kg<br>: EHT Brake Dia 100*18 Kg   |
| → 16. Wheel material<br>- CT size & nos.<br>- LT size & nos.                      | : EN-9 (Forged alloy steel)<br>: φ160, 04 nos.<br>: φ250, 04 nos.   |
| → 17. Rope Drum   | : Seam Less Pipe  |
| → 18. Rope size<br>Main Hoist   | : <u>φ10 mm</u> / 4 Fall, Fiber core, 180kg/mm <sup>2</sup> , 4 falls.  |
| → 19. Power supply  | : <u>415V±10%</u> , 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 :- GOL/Bharat Bijlee (BBL) for marathos
- Brake :- Brake motor
- Wire Rope :- Usha Martin
- Gear Box :- Own Make
- Cables :- Finotex/KEI Any ISI mark for Polycab.
- Switch Gears :- L&T/Standard/Siemens.
- Limit Switch :- Multitek System Make.
- Bearing:- ZKL Make.
- Cables :- Polycab Make OR any ISI Marked. KEI

### 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 3T	25,45,000	1 No.	25,45,000 ✓
2	Erection and Commissioning of Crane,	45,000 / Crane	1 No.	45,000 ✓
3	DSL Shrouded type	@1000		Client scope ✓
4	Current collector	@7500	1 Set	Client scope ✓
5	Freight	85000	1 Set	85000 ✓
TOTAL (Without DSL)				26,75,000

Price Basis: FOR- JAL BWD, Unlatching Incl

Client scope: -18% Excl of

- 1. Hydra curing protection
  - 2. Taxes
- to be paid by the date of

Erection of crane seats

Final amount  
 Rs. 25,00,000  
 Rs. 25,65,000  
 Rs. 26,05,000  
 Rs. 26,75,000

(P-70)

→ Payment: 35% Advance,

55% Basis + 100% GST against  
performance Invoice before  
dispatch.

10% After Commission subject to  
Submission of PBG valid for  
one year from the date of  
Commissioning.

→ 3rd party land test will be carried out by party  
and certificate will be submitted. Land test data  
land will be provided by JAL of our site.

→ Unloading of Lane - Party etc.

→ ~~2/1/23~~

It's agreed, with  
Mr. Ajit Mundaya and  
agreed above rate

(Signature)  
21/01/23