



OFFER NO. - SNS/22-23/QTN-66/DEC
 Kind Attn. - Mr. Rupesh Ji
 M/S - Jindal Aluminium

DATE: 27 DEC. 2022

Annexure - I

TECHNICAL SPECIFICATION FOR D/G EOT CRANE CAP-5 T SPAN-15.500 m

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- Type of crane : D/G EOT CRANE
- Class of duty : Class-II (M5), as per IS 3177, 807, 800
- Capacity : 5 T ✓
- Qty. required : 1 No. ✓
- Operating Environment : Indoor
- Span : 15.500 m ✓
- Height of Lift : 11.0 m ✓
- Crane Control : Operation Through Pendant push button Station from ground floor & Radio Remote
- SPEED*** :
- a. Main Hoist : 0.8-8.0 mpm (Through VVFD) ✓
- b. Cross Travel : 3.0-30 mpm (Through VVFD) ✓
- c. Long travel : 4.5-45 mpm (Through VVFD) ✓
- MOTOR**** :
- a. Main Hoist (KW/Pole/Type) : 9.3 KW 5.5 KW/6P / Sq. Cage. ✓
- b. Cross Travel (KW/Pole/Type) : 0.75 KW/ 4P /Sq. Cage Geared Brake Motor. ✓
- c. Long travel (KW/Pole/Type) : 2 X 1.1 KW / 4P /Sq. Cage Geared Brake Motor. ✓
- Make : Alstom (Marathon) / BBL / Crompton / ABB / Nord / SEW / Benfiglioli.
- NOTE 1 :** All Motors are, TEFC, MH-40% CDF, CT<-100% CDF, 150 Starts/hr., Crane Duty Motors, Class F Insulation, Temp rise limited to Class B.
- WIRE ROPE** :
- a. No of Falls/Dia. : 4/14 mm. 1200mm
- b. Factor of Safety : As Per IS 3177
- c. Type of core/construction : FMC / 6X36 ✓
- d. Tensile Strength : 180 kg / mm sq.,
- e. IS specification : IS 2266, ✓
- f. Make : USHA MARTIN.
- 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.
- ROPE DRUM** : Seamless Pipe as per ASTM A106.
- BRAKES** : MH: - EHT Brake
CT & LT: - All EM DC DISC Brakes DC Brakes
- Make : EHT: - Crane Control / SOC / Multitech
AC Disc: - Crane Control / SOC / Multitech
- 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 / Multitech

10 motion. SNF Make

SNSENGINEERING NTA PRIVATE LIMITED

H1-318-19, RIICO INDUSTRIAL AREA CHOPANKI,
BHIWADI - 301019, Alwar (Rajasthan),

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- 16 CRANE CONTROLS :
a. Protective Panel : Consisting of MCCB, MCB Main line contactor, Step down transformer, Single Phase Preventer.
b. Operation : Pendent & Radio Remote (SNT & Schneider) - 10 motor
c. Drive Panel : Consisting of Contactor, MCB, Overload Relays.
d. Make : L&T/Siemens/Schneider
17 CABLES : Multi Core, PVC Sheathed flexible type. - Lapp only
a. Make : Unique/Finolex/ECKO/KEL Any ISI mark. Lapp make cables.
18 CURRENT COLLECTION :
a. Cross Travel : Through festoon trailing cable on 4-wheeled trolleys running on C Track. Design basis
b. Long travel : Through Shrouded Type DSL 100 Amp Gi Cond. 105 AMPS - (scope) figure note
19 POWER SUPPLY : 415 V, +/-10%, 3 phase, 50 Hz. L
20 CONTROL VOLTAGE : 110 V AC, 1 phase, 50 Hz. L
21 COUPLING : Flexible geared coupling. L
22 WHEELS :
a. Type : Double flanged straight tread type. L
b. Material : Forging EN-8/9. L
c. Type of bearings : Antifriction Ball/roller. L
d. LT Wheel Dia./ qty. : Ø 160 / 4 L As per design standards as per
e. CT Wheel Dia./ qty. : Ø 160 / 4 L
23 HOOKS :
a. Type : 'C' type as per IS 15560.
b. Swiveling : On thrust bearing. L
c. Make : Smiriti Forging/mazumdar/mk forge. L
24 BEARING : Antifriction Ball / Taper roller & Spherical roller etc. L
25 PLATFORM :
a. Type : Steel Chequered plate with toe guard and two-tier hand railing on drive side full length platform shall be provided.
26 BUFFER : Rubber Buffer shall be provided for L.T & C.T. L
27 L.T. RAIL : 50 x 50 Sq. Bar (Client'S Scope) -> JDL Scope.
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 : 9.7 T (Approximate) L
30 LT MAX WHEEL LOAD (Without impact) : 5.1 T (Approximate)

* SPEEDS OF MH, CT< 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 - 5T SPAN - 15.500M AND HEIGHT OF LIFT - 11m CLASS-II.	NO.	1	19,50,000.00	19,50,000.00 (Rs. Nineteen Lacs Fifty 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 (RAIL IN CLIENT' Scope)	Mtr	1	450	450
			110 meters	AS PER LAST DATE	R. 49,500/-

*Called to Mr. Navneet
discussed in details and
finally party agreed
R. 19,80,000/-*

R. 20,99,500/-

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	• 06-08 Weeks from the date of approval of GA drawings.
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.

For SENSENGINEERING NTA PVT. LTD

→ All test certificate / MTC / Warranty certificate will be provided by party.

→ Payment :- 30% Advance against submission of ABG valid for 60 days, 60% + 10% rest within 7 days after receipt of crane.

→ 10% After successful commissioning only subject to submission of PDS value for one year from commissioning.

*Navneet Saraswat
Director Sales & Marketing
Mob - +917734054280*

discussed with and agreed above rate

A. ANNEXURE - I

A1. TECHNICAL SPECIFICATION FOR 5 MT, 15.5 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	5 MT ✓
4.	Qty required	1 Nos. ✓
5.	Operating Environment	Indoor, Ambient Temperature 50°C
6.	Span	15.5 Mtr. ✓
7.	Height of Lift MH	10.0 Mtr. ✓
8.	Crane Control	Through Independent Pendant Push Button & RRC <i>LCNT make 10 meter</i>
9.	SPEED	
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	9.3 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	4/12 mm ✓
b.	Type of Construction IS Specification	FMC/Steel Core / 6 x 36 / 180 Kg/sq. mm 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
18.	CURRENT COLLECTION	
a.	Cross Travel	THROUGH DRAG CHAIN MACHANISM - FGUS make
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 15.5 Mtr. Span D/G EOT Crane	1	EACH	23,00,000	23,00,000
A2	Supply of Shrouded Bus Bar type DSL	110	EACH	1500	1,65,000

JAL Scope

ERECTION & COMMISSIONING

Des.	Brief Specification	Quantity		Supply Price in INR	
		Nos	Unit	Unit	Total
A1	5 MT X 15.5 Mtr. Span D/G EOT Crane	1	EACH	50,000	50,000
A2	DSL Installation <i>T. Rail incl</i>	110	EACH	500	55,000

49500/-

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.

B2. PACKING & FORWARDING

2% extra

B3. 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 and transportation charges extra at actuals.

B4. 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.

B5. 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.

ERECTION PORTION

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

B6. INSPECTION BEFORE DELIVERY

Discussed with Mr. Ankit Agrawal and specific details

Rs. 23,95,500/-
25,000/-
Foreight from Rate
Rs. 24,24,500/-
Rs. 23,95,500/-

Price Basis! FOR-JAL Shredder.

→ GST! 18% Extra.

→ Delivery: 4 to 5 weeks from the date of order.

→ Payment: 90% + 100% GST within 7 days from the date of receipt of leave.

10% After Commissioning Subject to Submission of PBQ valid for one year

→ Warranty: 12 months from the date of Commissioning of crane.

→ 3rd Party Load Testing will be done by party at our site and certificate will be provided.



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 5 TONS, 15.5 MTR. SPAN, 10.0 MTR. LIFT

Main technical points:

- | | | |
|------|------------------------|---|
| → 1. | Type of crane | : Double Girder EOT Crane ✓ |
| → 2. | Location | : Indoor ✓ |
| ✓ 3. | Qty. | : 1 No. ✓ |
| → 3. | Class | : M7 (III) as per IS:3177,IS:800 & IS:807 ✓ |
| → 4. | Capacity
Main Hoist | : 5T ✓ |
| → 5. | Span | : 15.5 mtr. ✓ |
| → 6. | Height Of Lift | : 10.0 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 | : CGL//BBL Make ✓ |
| | Main Hoist | |
| | - Rated HP | : 11.0 HP, Sq. Cage ✓ |
| | - Duty | : S-4 duty ✓ |
| | - Type | : 150 starts/hr, inverter duty, F-class, TEFC ✓ |
| | - CDF | : 40% ✓ |
| | Cross Travel | |
| | - Rated HP | : 1.5 HP, Sq. Cage ✓ |
| | - Duty | : S-1 duty ✓ |



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- - 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 - SNT make 10 motion.*
- 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 *Lapp make.*
- 15. Brakes :
M.H. : Thruster Brake
C.T. & L.T. : Thruster brake
- 16. Wheel material : EN-9 (Forged alloy steel) ✓
→ - CT size & nos. : φ200, 04 nos. ✓
→ - LT size & nos. : φ250, 04 nos. ✓
- 17. Rope Drum : Seam Less Pipe
- 18. Rope size :
Main Hoist : φ12 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 :- CGL/Bharat Bijlee (BBL) / *metathon*
- Brake :- Thruster Brake
- Wire Rope :- Usha Martin
- Gear Box :- Own Make - *AJSIM*
- Cables :- Eicolex/KEI Any ISI mark *KEI/Polycab.*
- Switch Gears :- L&T/Standard/Siemens.
- Limit Switch :- Multitek System Make.
- Bearing :- ZKL Make.
- Cables :- Polycab Make OR any ISI Marked.

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 5T	20,30,000	1 No.	20,30,000 ✓
2.	Erection and Commissioning of Crane.	35,000 / Crane	1 No.	35,000 ✓
3.	DSL Shrouded type			Client scope
4.	Current collector		1 Set	Client scope
5.	Freight	65000	1 Set	65000 ✓
		TOTAL		21,30,000

Note :- For VVVF Drive in MH and CT , Cost will be extra

- Price Basis: *FOR-TO-BUILD*
- IGST: 18% *Before*
- Delivery: 6 weeks from the date of advance
- Payment: 25% *advance* 55% *before dispatch* 100% *before dispatch* 100% *GST against PI*
- 10% *After Commissioning sub* *of P&G valid for one year*

Rs. 20,44,800/-

(PTO)

- 3rd Party load test will be done by supplier and certificate will be provided by Party.
- Unloading of crane - vendor etc
- Testing, load will be provided by IAL

Discussed with
Mr. Ajit Maney and
agreed above rate


20/01/23