

ANNEXURE-III TO SPECIFICATION BA55039 REV.13

PROJECT: TO BE PROVIDED AT THE TIME OF PO

ENQUIRY NO:

The following data sheet is to be filled by the vendor and submitted along with the offer. This data sheet shall form part of ordering specification and shall be approved by Engineering on acceptance of the offer.

**TECHNICAL DATA SHEET FOR ELECTRICALLY OPERATED
UNDER HUNG CRANE & TROLLEY WITH HOIST**

CR 1.0	Under hung crane					
CR 1.1	Capacity – in tons					
CR 1.2	Span – in m.					
CR 1.3	Overhang on either side- in mm					
CR 1.4	Runway beam size (User/ Purchaser) Will be furnished during Vendor drawing approval.					
CR 1.5	Operating floor – in m.					
CR 1.5.0	Wheels					
CR 1.5.1	Wheel shape whether match with runway beams	Yes/ No				
CR 1.5.2	Wheel material					
CR 1.5.3	Wheel diameter- in mm					
CR 1.5.4	Wheel base – in mm					
CR 1.6.0	Brakes					
CR 1.6.1	Operation	Electrical / Mechanical				
CR 1.6.2	Shoe Material					
CR 1.6.3	Type					
CR 1.6.4	Make					
CR 1.7.0	Crane girder					
CR 1.7.1	Type	Single / Double / Box				
CR 1.7.2	Size					
CR 1.7.3	Material					
CR 1.8.0	Wheel bearing					
CR 1.8.1	Type					
CR 1.8.2	Size					
CR 1.8.3	Make					
CR 1.9.0	Crane speed					
CR 1.9.1	Maximum speed in m/min.					
CR 1.9.2	Minimum speed in m/min.					

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CR1.10.0	Weight of the crane – in Kgs.					
CR 1.11.0	Dimensions of Crane					
CR 1.12.0	Shaft					
CR 1.12.1	Material					
CR 1.12.2	Hardness					
CR 1.13.0	Gears/ Pinions					
CR 1.13.1	Material					
CR 1.13.2	Hardness					
CR 1.14.0	Limit switch					
CR 1.14.1	Type					
CR 1.14.2	Make					
CR 1.14.3	Rating					
CR 1.15.0	Crane Motors					
CR 1.15.1	Rating					
CR 1.15.2	Type					
CR 1.15.3	Make					
CR 1.15.4	Power factor of motor					
CR 1.15.5	Quantity					
CR 1.16.0	Power supply					
CR 1.16.1	Power supply rating for equipment					
CR 1.16.2	Power supply rating for control					
CR1.17.0	End stopper					
CR 1.17.1	Provided	Yes/ No				
CR1.17.2	Type					
CR 1.18.0	Clearance between Runway beam bottom & Crane girder top – in mm.					
HOI 1.0	Trolley With Hoist					
HOI 1.1	Capacity - in tons					
HOI 1.2	Lift – in m					
HOI 1.3	Headroom – in mm					
HOI 1.4	Approximate Hoist dimension					

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HOI 1.5	Operating floor – in m					
HOI 1.6	Approximate weight – in Kgs					
HOI 2.0	Hoist brake					
HOI 2.1	Type					
HOI 2.2	Shoe material					
HOI 2.3	Make					
HOI 3.0	Cross travel brake					
HOI 3.1	Type					
HOI 3.2	Shoe material					
HOI 3.3	Make					
HOI 4.0	Hoist speed					
HOI 4.1	Maximum speed – in m/min					
HOI 4.2	Minimum speed – in m/min					
HOI 5.0	Cross travel speed					
HOI 5.1	Maximum speed - in m/min					
HOI 5.2	Minimum speed – in m/min					
HOI 6.0	Trolley wheels					
HOI 6.1	Wheel diameter- in mm					
HOI 6.2	Material					
HOI 6.3	Hardness					
HOI 6.4	Quantity					
HOI 7.0	Rope					
HOI 7.1	Rope construction					
HOI 7.2	Rope diameter – in mm					
HOI 7.3	Number of falls					
HOI 7.4	Ultimate tensile strength					
HOI 7.5	Whether wire rope has sufficient extra length to retain two full wraps on the drum	Yes/ No				
HOI 7.6	Rope/ Core material					
HOI 8.0	Rope drum					
HOI 8.1	Diameter – in mm					
HOI 8.2	Material					
HOI 9.0	Gears & Pinions for Hoisting					
HOI 9.1	Material					

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HOI 9.2	Hardness					
HOI 10.0	Gears & Pinions for Cross travel					
HOI 10.1	Material					
HOI 10.2	Hardness					
HOI 11.0	Hook					
HOI 11.1	Material					
HOI 11.2	Hardness					
HOI 11.3	Capacity – in tons					
HOI 11.4	Safety latch provided in the hook	Yes / No				
HOI 11.5	Bearing in the swivel hook					
HOI 11.6	Locking arrangement of hook	Yes / No				
HOI 12.0	Bearing for Cross Travel					
HOI 12.1	Type					
HOI 12.2	Size					
HOI 12.3	Make					
HOI 13.0	Bearing for Hoist					
HOI 13.1	Type					
HOI 13.2	Size					
HOI 13.3	Make					
HOI 14.0	Hoist motor					
HOI 14.1	Rating					
HOI 14.2	Type					
HOI 14.3	Make					
HOI 14.4	Power factor of motor					
HOI 14.5	Quantity					
HOI 15.0	Cross travel motor					
HOI 15.1	Rating					
HOI 15.2	Type					
HOI 15.3	Make					
HOI 15.4	Power factor of motor					
HOI 15.5	Quantity					
HOI 16.0	Limit switch for Hoist					
HOI 16.1	Type					
HOI 16.2	Make					
HOI 16.3	Rating					

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HOI 17.0	Limit switch for Cross travel					
HOI 17.1	Type					
HOI 17.2	Make					
HOI 17.3	Rating					
HOI 18.0	Power supply					
HOI 18.1	Power supply rating for equipment					
HOI18.2	Power supply rating for Control					
HOI 19.0	Type of control					
HOI 19.1	Location of Control					
DSL 1.0	DSL-01 & 02 system for Long Travel for Service Crane – in m.					
DSL 1.1	Travel length – Wire Cable trolley					
DSL 1.2	Type					
DSL 1.3	Cable size & rating					
DSL 1.4	Loop size					
DSL 1.5	Link chain size / diameter					
DSL 1.6	Pitch between two cable trolleys					
DSL 1.7	Pendent switch					
DSL 1.8	Isolators / switch fuse units					
DSL 1.8.1	Type					
DSL 1.8.2	Rating					
DSL 1.9	Earthing conductor					
DSL 2.0	DSL- 03 & 04 system for Mill Cranes –in m.					
DSL 2.1	Travel length– wire / cable trolley					
DSL 2.2	Type					
DSL 2.3	Cable size & rating					
DSL 2.4	Loop size					
DSL 2.5	Link chain size / diameter					
DSL 2.6	Pitch between two cable trolleys					
DSL 2.7	Pendent switch					
DSL 2.8.0	Isolators / Switch fuse units					
DSL 2.8.1	Type					
DSL 2.8.2	Rating					
DSL 2.9	Earthing conductor					

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ENQUIRY NO:

DATA SHEET – AC MOTORS
TECHNICAL DATA SHEET FOR NON-FLAME PROOF MOTORS

EL.1	Application					
EL 2	Manufacturer					
EL 3	Type, frame size & degree of protection					
EL 4	Rated output in KW & rated speed					
EL 5	Full load current					
EL 6	Full load efficiency & power factor					
EL 6.1	Duty cycle					
EL 7	Rated torque					
EL 7.1	Starting current					
EL 8	Starting torque in % of full load torque					
EL 9	Pull up torque in % of full load torque					
EL 10	Pull out torque in % of full load torque					
EL 11	No load starting time					
EL 12	Stator winding connection					
EL 13	Type & no. of terminals brought out					
EL 14	Resistance / phase					
EL 15	Qty. & power consumption of space heaters					
EL 16	Gland size for space heaters					
EL 17	Cable entry					
EL 18	Cable gland – Double compression					
EL 19	GD ² of motor					
EL 20	Total weight of motor					
EL 21	Anticipated bearing life					
EL 22	Method of connection to driven equipment					

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TC. 1.0 Test certificates to be furnished along with supply

TC. 1.1	Hoist load test					
TC. 1.2	Crane load test					
TC. 1.3	Over load relay test					
TC. 1.4	Deflection test for crane					
TC. 1.5	Long Travel movement test					
TC. 1.6	Cross travel movement test					
TC. 1.7	Dimensional checks					
TC. 1.8	Insulator test on electrical circuit					
TC. 1.9	High volt test on electrical circuit					
TC. 1.10	Hook type & load test					
TC. 1.11	Wire rope load test					
TC.1.11.1	Individual Hooks are identified	Yes/ No				
TC.12	NDT for gears, wheels shafts & hooks					
TC .13	NDT as per Quality plan & Specification					
TC.14	Material test certificates					
TC.15	Motor routine, type & weather protection TCs.					
TC.16	Control panel & Pendant IR, HV & physical inspection record and weather protection TCs.					

D.1.0 TYPICAL DRAWINGS / DOCUMENTS TO BE FURNISHED ALONG WITH THE OFFER

D.1.1	General Arrangement /Assembly of Cranes	
D.1.2	General Arrangement / Assembly of Hoists	
D.1.3	General Arrangement / Assembly for DSL system	
D.1.4	General Arrangement / Assembly for Male & Female interlock mechanism.	
D.1.5	Erection drawings for Cranes, Hoists & DSL system	
D.1.6	Electrical Wiring / Circuit diagram	

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