

Sr. No	Description	Qty
01	Key Components for 1.5 Ton Single Girder EOT Crane (Detail specification at Page-02~06)	01 No

QUANTITY: 01 No.

ITEM NO. I. ELECTRICAL WIRE ROPE HOIST SPECIFICATIONS:

Type of Crane	Single Girder Crane.
Load lifting capacity	1500 Kg
Country of Origin	European / Japan / Turkey
Hoisting speed (Fast/Slow)	5 /1 m/min (or equiv. Std. speeds)
Lift	4.7 m. (Adjustable to any desired height)
Service Class	CMAA Class C
Type of Hook	"C" Shape, 360° Rotation, Equipped with spring loaded safety latch
Design Standard	DIN15020 FEM 2m rule
Mode of control	Radio remote control
Crane Span	5.3 m
Environment	Indoor, Temp -5C° to 50C°
Main Power Source	A.C, 3Phase, 400±5% Volts, 50Hz.
IP Rating	IP54

I(a): HOIST CARRIAGE SPECIFICATION(SINGLE GIRDER)

No. of Wheel Blocks	04Nos. of Wheel blocks (02Nos. driven and 02Nos. driving type using geared brake motors).
Type of Wheels	Flanged guided type wheels adjustable for Flange Width=300mm
Group of Mechanism to FEM	2m
Traversing (Trolley speed) Fast/Slow	20/3 m/min (or equiv. Std. speeds)

(b): ACCESSORIES.

1. Chain Pocketed power supply (Energy chain) for hoist along with all accessories/fittings for Span of 5.3m.
2. Low voltage control panel consisting of all protection relays and fitted with necessary contactors.

ITEM NO. 2: SET OF WHEEL BLOCKS/END CARRIAGE SPECIFICATIONS.

No. of Wheel Blocks	4Nos. of Wheel blocks (2Nos. driven and 2Nos. driving type using geared brake motors).
Type of Wheels	Double Flanged guided type.
Rail size for End Carriage wheels	Billet 40x40, L= 30430mm x2
Group of Mechanism to FEM	2m
Travelling (Bridge speed) Fast/Slow	20/5 m/min (or equiv. Std. speeds)

2 (a): ACCESSORIES.

1. Fittings and Screws of the wheel blocks for fastening the wheel block with the end girders.
2. Cable reeling drum system equipped with magnetic coupler/motor (for workplace length of 30.5m) and main isolating switch suitable for electrical supply to operate the crane.
3. Low voltage control panel consisting of all protection relays and fitted with necessary contactors.

ITEM NO.3: SAFETY DEVICES.

1. All motors shall have built-in brakes which will automatically actuate when power is switched off.
2. Limit switches shall be provided for each crane motion for added safety. Over hoisting and over lowering limit switches shall be provided.
3. Rubber buffers on Hoist and Crane.
4. Overload thermal protection device for hoisting motors shall be provided.
5. Galvanized type hoisting wire rope shall be provided.

ITEM NO. 4: SPARES.

All spares required for normal operation of 5 years including:

a) Galvanized wire rope.	01 length
b) Rope guide ring.	01 No.
c) Spring for rope guide.	01 No.
d) Emergency hoist limit switch.	01 No.
e) Brake disk with lining for hoisting.	02 Nos.
f) Brake disk with lining for cross travel motor.	02 Nos.
g) Brake disk with lining for long travel motor.	02 Nos./motor
h) All other spare parts as recommended by the Manufacturer/Principal	

ITEM NO.5: DOCUMENTS (Hard + Soft Copy).

1.	Hoist & End Carriage Data Sheets immediately after placement of Purchase Order.
2.	Test certificate for Hoist by the principal.
3.	Wire Rope and hook test certificate by the principal.
4.	Detailed electric wiring diagrams.
5.	Installation, Operational & Maintenance manuals.

CHECK LIST

Please carefully fill all the entries by either encircling "YES" or "No" and mention specifications of offered components when "No" is encircled. Use separate sheet if required. Duly filled check list must be submitted along with offer.

Key Components for 1.5 Ton Single Girder EOT Crane as per attached Annexure-C & specification Annexure-D (Rev.0) (Quantity : 01 No./ Set)

ITEM NO. I. ELECTRICAL WIRE ROPE HOIST SPECIFICATIONS:			Encircle		Offered Specs (Where "No" is encircled)
1	Type of Crane	Single Girder Crane.	Yes	No	
2	Load lifting capacity	1500 Kg	Yes	No	
3	Country of Origin	European / Japan / Turkey	Yes	No	
4	Hoisting speed (Fast/Slow)	5/1 m/min (or equiv. Std. speeds)	Yes	No	
5	Lift	4.7 m. (Adjustable to any desired height)	Yes	No	
6	Service Class	CMAA Class C	Yes	No	
7	Type of Hook	"C" Shape, 360° Rotation, Equipped with spring loaded safety latch	Yes	No	
8	Design Standard	DIN15020 FEM 2m rule	Yes	No	
9	Mode of control	Radio remote control	Yes	No	
10	Crane Span	5.3 m	Yes	No	
11	Environment	Indoor, Temp -5C° to 50C°	Yes	No	
12	Main Power Source	A.C, 3Phase, 400±5% Volts, 50Hz.	Yes	No	
13	IP Rating	IP54	Yes	No	
(a): HOIST CARRIAGE SPECIFICATION (SINGLE GIRDER)			Encircle		Offered Specs (Where "No" is encircled)
14	No. of Wheel Blocks	04Nos. of Wheel blocks (02Nos. driven and 02Nos. driving type using geared brake motors).	Yes	No	
15	Type of Wheels	Flanged guided type wheels adjustable for Flange Width=300 mm	Yes	No	
16	Group of Mechanism to FEM	2m	Yes	No	
17	Traversing (Trolley speed) Fast/Slow	20/3 m/min (or equiv. Std. speeds)	Please write Trolley speed in		
(b): Accessories			Encircle		Offered Specs (Where "No" is encircled)
18	Chain pocketed power supply (Energy chain) for hoist along with all accessories/fitings for Span of 5.3m.		Yes	No	
19	Low voltage control panel consisting of all protection relays and fitted with necessary contactors.		Yes	No	

CHECK LIST (continued)

ITEM NO. 2:			Encircle		Offered Specs (Where "No" is encircled)
SET OF WHEEL BLOCKS/END CARRIAGE SPECIFICATIONS.					
20	No. of Wheel Blocks	4Nos. of Wheel blocks (2Nos. driven and 2Nos. driving type using geared brake motors).	Yes	No	
21	Type of Wheels	Double Flanged guided type.	Yes	No	
22	Rail size for End Carriage wheels	Billet 40x40, L= 30430mm x 2	Yes	No	
23	Group of Mechanism to FEM	2m	Yes	No	
24	Travelling (Bridge speed) Fast/Slow	20/5 m/min (or equiv. Std. speeds)	Yes	No	
2(a): Accessories			Encircle		Offered Specs (Where No is encircled)
25	Fittings and Screws of the wheel blocks for fastening the wheel block with the end girders.		Yes	No	
26	Cable reeling drum system equipped with magnetic coupler/motor (for workplace length of 30.5m) and main isolating switch suitable for electrical supply to operate the crane.		Yes	No	
27	Low voltage control panel consisting of all protection relays and fitted with necessary contactors.		Yes	No	
ITEM NO. 3 SAFETY DEVICES			Encircle		Offered Specs (Where No is encircled)
28	All motors shall have built-in brakes which will automatically actuate when power is switched off.		Yes	No	
29	Limit switches shall be provided for each crane motion for added safety. Over hoisting and over lowering limit switches shall be provided.		Yes	No	
30	Rubber buffers on Hoist and Crane.		Yes	No	
31	Overload thermal protection device for hoisting motors shall be provided.		Yes	No	
32	Galvanized type hoisting wire rope shall be provided.		Yes	No	
ITEM NO. 4: SPARES			Encircle		Offered Specs (Where No is encircled)
All spares required for normal operation of 5 years. Including					
33	Galvanized wire rope.	01 length	Yes	No	
34	Rope guide ring.	01 No.	Yes	No	
35	Spring for rope guide.	01 No.	Yes	No	
36	Emergency hoist limit switch.	01 No.	Yes	No	
37	Brake disk with lining for hoisting.	02 Nos.	Yes	No	
38	Brake disk with lining for cross travel motor.	02 Nos.	Yes	No	
39	Brake disk with lining for long travel motor.	02 Nos./motor	Yes	No	
40	All other spare parts as recommended by the Manufacturer/Principal		Yes	No	
ITEM NO.5: DOCUMENTS (Hard + Soft Copy).			Encircle		Offered Specs (Where No is encircled)
41	Hoist & End Carriage Data Sheets immediately after placement of Purchase Order.		Yes	No	
42	Test certificate for Hoist by the principal.		Yes	No	
43	Wire Rope and hook test certificate by the principal.		Yes	No	
44	Detailed electric wiring diagrams.		Yes	No	
45	Installation, Operational & Maintenance manuals.		Yes	No	