

T.No.65.10.8051 due on 21.12.2011**TECHNICAL SPECIFICATION**

DESCRIPTION OF WIRE ROPE HOIST	
(1) HOIST-ELITE, KONE, MUNCK or equivalent make.	
Quantity	01 Set(consisting 03 Nos. Hoist)
Capacity of Hoist	2 Ton each.
Height of lift	5 meter
Class and duty	Class-II, medium duty, indoor operation as per IS: 3938
Operation	From floor by means of Pendent Push button station
Speed a) Main hoist	Variable speed through VFD
MOTORS a) Main Hoist	2HP Motor, Crane duty. Sq. Cage type
Gear Box	Integrated with Hoist
Brakes	EM shoe/Disc in Hoisting only
Wire Rope	8mm 4 all FMC core, IS Mark
Limit Switch	Snap Action type in hoisting only
Cables	All cables PVC submersible copper ISI mark
Hook	Standard C-type IS-3815
Panel	AC3 duty Siemens/ BCH make ACVFD
Power supply	415-440V, 3 phase, 50 Hz, AC
Painting	The Hoist shall be painted with two coats of Red Oxide primer followed by two coats of Hamilton green synthetic enamel paint.
Wheels	EN9 double flanged
Motor type	Foot Mounting.
MH	2 H.P. 1440 RPM
CT	1 HP. 1440 RPM
Duty rating / No. of Starts/Hr/poles of motors	AC3 50 Hz 415 volt AC
Class of insulation/degree of	F Class
Gear box casing Gear Pinion	Safe lift make IS=4460 EN-24
Wire rope	8x4 Usha – Martin or equivalent
Rope drum	M.S. Simless Pipe
Limit switches hoist	Up-down
Limit switches Ct.	East west
Cables Power Control	Flexible 3 sq.mm 4 core flexible 1mm 9 core flexible
Resistor	390 Walt – 15
Panels	IP 55

Operating of crane	Push button
Buffers for end carriage & wheels	Yes
Lubrication	Self
Load testing Prior to our works after erection and commissioning	25% over load REQUIRED
ROPE DRUM	Made from seamless steel pipe with spiral grooves on working surface
WIRE ROPE	As per IS: 2266 of Ushamartin or suitable. 6 x 36 suitable construction and the ample factor of safety
BEARING	Deep groove ball bearings of reputed make used on all rotating parts.
HOIST BRAKE	Fail safe shoe type thresed brake provided for easy maintenance mounted on the rear end of the motor
HOIST GEAR BOX	Precision Machine cut case hardened alloy steel gears
CONTROL PANNEL	Sheet metal clad in totally enclosed construction with contactor transformer on/off, M.C.B. and overload relays for all motors IP-55
SAFETY	Electrical interlocking is provided to avoid Accidental simultaneous motion of hoist due to activation of multiple push buttons at the same time.
(2) DETAILED OF CRAB	
Distance between wheels of crab (centre to Centre)	13"
Distance between rails (sq. bar 10 mmmm)	Approx. 53 inches
Height of crab from bottom side of wheel	Approx. 20"
Length of existing hoist inclusive break and motor	Approx. 42"
Length of crab	Approx.58"
No. of wheels per crab	4 Nos. (i.e. 4 wheels x 3 crab) = 12 nos.)
Diameter of wheels	Approx. 8 ½"
Groov of wheels approx.	15mm

(3) **CONTROL PANEL** - with VVFD for Hoist motor cross travel motors all switch gears & VFD will be Siemens/L&T/BCH or equivalent.

(4) **END CARRIAGE REPAIRING.**

HOOK BLOCK

Heavy duty steel forged hooks, supported on thrust bearing for free swiveling. Std C type as per IS 3815.

LIMIT SWTICHES

To prevent over hoisting and over lowering limit switches, provided as safety device. CT limit Switch.

TROLLEY

Wire rope hoist, either fixed suspension or electric trolley.

ELECTRIC PANEL.

Totally enclosed dust and vermine proof control panel houses, direction reversing type air break contactors, overload relay, HRC fuses, transformer, rectifier etc.

PENDANT PUSH BUTTONS

Robust heavy push button switch for operating at 24/110 volts, suspended from hoist

TESTING

All the hoists to be tested for 25% overload

TRAINING

Supliar shall have to provide adequate training for operation and manintenance of the mahchine.

GUARANTEE

Hoist should be guaranteed for repair/replacement of any part, which proves defective in material or workmanship with in one year of sale.

**SSE/M&P
CRWS/BPL**

**Works Manager
CRWS/BPL**