

125 TON CRANE WEIGHING SYSTEM

DETAILS OF EXISTING EQUIPMENT:

ITEM NO.	:	SE/CR/9502/2
LOCATION	:	BAY-9
EQUIPMENT	:	125/20 TON EOT CRANE
MAKE	:	JESSOP
QUANTITY	:	ONE NUMBER
NO. OF FALL	:	8 Nos.
ROPE DIA	:	35 MM

1. SCOPE OF SUPPLY:

A. WEIGHT DISPLAY SYSTEM WITH FOLLOWING FEATURES:

1. Intelligent indicator having features of data processing, record savings, printing options and completely customizable as per requirement of user.
2. Zero tracking and weight tracking features for better stability.
3. LED or LCD display of 150 mm height, should be visible up to 100 meter distance.
4. Multistep (Min 5 step) calibration facility with random load sequence in order to Achieve Higher Weighment Accuracy.
5. Calibration should be done with remote control.
6. Wireless Remote display should be provided, thereby eliminating the need of Long cables. Wireless display can be installed at a distance of 50m - 200m from Weight Indicator and its position can be changed any time within specified Distance.
7. Power supply - SMPS based (90 - 270 V AC)
8. Programmable Annunciator with ALRM indication for SAFE, ALERT and ALARM limits.
9. Relay – 2 No., 6 Amps, Potential-free, 2 NO + 2 NC Contacts fully programmable for SAFE, ALERT and ALARM limits to safe operation of carne and safety tripping of cranes.
10. Audio Annunciation- Hooter 100 dB at 1-meter distance indicating any type of tripping.

B. LOAD CELL :

1. TYPE : LOAD PIN TYPE (SUITABLE FOR TO BE FITTED ON CENTER BALANCING PULLEY)
2. LOAD PIN SENSOR CAPACITY : Min. 50 ton.
3. CRANE MAIN HOIST CAPACITY : 125 Ton main hoist with 8 NO. Falls of rope DIA 35 mm
(Load cell is required for main hoist weight display and load lifting up to 125 ton)
4. Accuracy / Non-Repeatability : Min. $\pm 1\%$ of Full Scale Output for load pin sensor.

2. SCOPE OF WORK

1. Complete Commissioning / integration of the weighing system, mounting and fitting with the existing crane will be in supplier's scope.


2. Complete mounting & fitting of load pin sensor (load cell) on center equalizing pulley with all required accessories will be in supplier's scope.
3. Dismantling of all required items/assemblies required for Complete Commissioning / integration of the weighing system and load cell on equalizing pulley with the existing crane will be in supplier's scope.
4. Functional proving of supplied weighing system with full capacity has to done at BHEL works.


3. GENERAL CONDITIONS

- (a) Installation and commissioning work to be done by the party in BHEL, JHANSI.
- (b) Party shall prove the Crane weighing system with full capacity for main hoist operation.
- (c) Offer must be submitted with details :
 - a) Scope of supply complete with quantity
 - b) Scope of work.
- (d) Time required for Supply , erection and commissioning work to be given
- (e) All supplied items to be fitted in crane.
- (f) Guarantee of the supply and work shall be 12 months from the completion of the job.
- (g) The Design of load pin assembly and any modification required in the existing centre balancing pulley assembly must be vetted by Chartered Engineer for 125/20T EOT crane and submitted to BHEL before supply of the subject item.
- (h) Manpower & necessary tools and tackles required for installation and commissioning of supply and works will be in the scope of vendor.
- (i) Calibration and test certificated for the load indicator and SENSOR is to be provided.
- (j) Vendor may visit for technical discussion and site inspection i.e. 125/20 T EOT Crane so as to have complete understanding of technical requirements and to analyses the quantum of work before submission of techno-commercial offer.
- (k) General arrangement drawing for rope drum, no. of falls and centre balancing pulley is attached for reference. This is not a dimensional drawing.

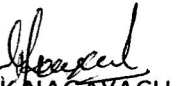
4. QUALIFYING CRITERIA


- (a) Vendor should have experience of supply and installation of sensor and crane weighing system. Relevant certificate in this context for successful installation & commissioning of weighing system in EOT crane (at least one number) within the past five years shall necessarily be submitted along with offer.


VIJAY VERMA
DY. MANAGER, WEX


SUJEET SHRIVASTAVA
MANAGER, WEX


INDER MATHUR
DGM , WEX


M K NAGAYACH
SR. DGM, WEX


S J CHAKRABORTY
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