

SPECIFICATION CUM COMPLIANCE CERTIFICATE FOR PROVISION OF PENDANT SYSTEM FOR OPERATION OF EOT CRANES AT BHEL FABRICATION PLANT JAGDISHPUR

NOTE:-

1. Vendor must submit complete information against Qualification Criteria mentioned against clause no. 11.0 of this technical specification. The offer meeting this clause would only be processed.
2. The "Offered" Column and where applicable, the "Deviations" & "Remarks" Column of this format shall be filled in by the Vendor and submitted along with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specifications/requirements shall be treated as non-compliance.
3. The offer and all documents enclosed with offer should be in English language only.

SCOPE: DESIGN, ENGINEERING, SUPPLY, ERECTION & COMMISSIONING AT BHEL SITE OF 04 NOS. COMPLETE PENDANT SYSTEM FOR OPEARTION OF EXISTING OPERATIONAL EOT CRANES WITH SPECIFICATION AS BELOW

TECHNICAL SPECIFICATIONS FOR PROVISION OF 04 NOS. PENDANT SYSTEM IN EOT CRANES AT BHEL FP JAGDISHPUR					
Sr. No.	Description for BHEL requirement	Specified/ to be confirmed by	Offered	Deviation	Remarks
1.0	PURPOSE-				
1.1	Design, Engineering, Supply, Erection, Testing and Commissioning of 04 NOS. Pendant control system for operation of EOT cranes at FP Jagdishpur, without affecting the existing operation set up.	vendor to confirm			
2.0	LOCATION-				
2.1	EOT cranes are operational at FP, BHEL. The cranes are operated through Radio Remote Control and have the facility to operate from the cabin. Additional new provision for operating the crane through pendant control is required along with the existing options with selection of each on cabin & pendant with indication / display thereof.	vendor to confirm			
2.3	Vendor to submit their own design and drawings along with complete Bill of Quantities, scheme, circuit diagram with offer.	vendor to confirm			
3.0	Technical Input				
3.1	EOT cranes of various capacities are installed as follows:	Vendor to Note			
3.1.2	Make: M/s Rockwell Hoisto Cranes Ltd., New Delhi				
3.1.3	Crane No:1	Vendor to Note			
	Capacity - 20/5 Ton				
	Span - 22.5 metre				
	Bay length - 192 metre.				
	Gantry Girder height above finished floor - 8.5 metre				
3.1.4	Crane No:2	Vendor to Note			
	Capacity - 50/10 Ton				

Sr. No.	Description for BHEL requirement	Specified/ to be confirmed by	Offered	Deviation	Remarks
	Span - 22.5 metre				
	Bay length - 192 metre.				
	Gantry Girder height above finished floor - 12.5 metre				
3.1.5	Crane No:3	Vendor to Note			
	Capacity - 50/10 Ton				
	Span - 22.5 metre				
	Bay length - 192 metre.				
	Gantry Girder height above finished floor - 12.5 metre				
3.1.6	Crane No:4	Vendor to Note			
	Capacity - 20/5 Ton				
	Span - 22.5 metre				
	Bay length - 192 metre.				
	Gantry Girder height above finished floor - 8.5 metre				
4.0	Description of Material Requirement				
4.1	i) Reputed make pendant control push button station - For ON with indication, UP / DOWN of two nos. hoists, Forward, Reverse, Left, Right, with double speed operation for all motors, Bridge Light, buzzer, selector switch 3 way & Emergency Stop. IP65	vendor to confirm			
4.2	ii) Complete Festoon System with C-Rail Bar, material- galvanized steel, Steel Trolley with ball bearing, trolley, End Fix trolley, support bracket, Joint Cover, End Clamp, Hanger Clamp, End Cover with painting etc. Colour shade of existing crane is Orange.	vendor to confirm			
4.3	iii) PVC Flexible round Cable (Flame Resistant, Internal Conductors with flexible PVC Sheathing & earth conductor), steel wires & earthing wires of suitable size	vendor to confirm			
4.4	iv) Other required items to complete the work viz. junction boxes, rotary selection switch, hardware, supports, cover plates etc.	vendor to confirm			
4.5	Operating Voltage of Pendant station - maximum 24V	vendor to confirm			
5.0	Installation & Commissioning and training				
5.1	Complete Installation and commissioning of the pendant control system in the existing EOT cranes which are operational at FP, BHEL is in Vendor's scope. Vendor to arrange all types of lifting apparatus, helping personnel etc. on their behalf. After I&C vendor has to prove out the performance of the system to the satisfaction of BHEL	vendor to confirm			
5.2	Vendor to provide training during I&C of complete system for operation and maintenance to BHEL personnel.	vendor to confirm			

Sr. No.	Description for BHEL requirement	Specified/ to be confirmed by	Offered	Deviation	Remarks
6.0	Proving and Acceptance of BHEL				
6.1	Vendor to operate the EOT crane for all functions through the pendant control system.	vendor to confirm			
6.2	Operation of the crane through existing RRC & Cabiin shall also be checked.	vendor to confirm			
6.3	Working of accessories, systems and items supplied shall be cheked by BHEL	vendor to confirm			
6.4	Proving of complete system to the satisfaction of BHEL	vendor to confirm			
7.0	Documents to be submitted along with offer				
7.1	Vendor to submit following documents alongwith their offer and other documents:				
7.2	Complete Specification	vendor to confirm			
7.3	Layout drawing of system, assemblies and componenets	vendor to confirm			
7.4	General technical litrature of systems and its parts.	vendor to confirm			
7.5	List of bought out items with their Indian source.	vendor to confirm			
7.6	Structural drawings	vendor to confirm			
7.7	Bill of quantities with the breakup of each item	vendor to confirm			
8.0	Documents to be submitted after placement of LOI/PO for BHEL approval				
8.1	Layout drawing of system, assemblies and components in standard formats	vendor to confirm			
8.2	Eleactrical drawings	vendor to confirm			
8.3	Technical Data sheet	vendor to confirm			
8.4	Vendor shall provide as built drawings of complete system both hard copy & soft copies after the E&C of complete system	vendor to confirm			
8.5	Bill of quantities with the breakup of each item	vendor to confirm			
8.6	Test Certificates	vendor to confirm			
9.0	Guarantee				
9.1	Vendor to provide guarantee of 12 months for complete pendant control system after acceptance of BHEL	vendor to confirm			
10.0	General				
10.1	Vendor to provide complete system and shall supply all necessary systems, accessories etc. which are not specified in this specification but are required for smooth and trouble free operation of system.	vendor to confirm			

Sr. No.	Description for BHEL requirement	Specified/ to be confirmed by	Offered	Deviation	Remarks
11.0	Qualification Requirement				
11.1	Only crane manufacturr or those vendors who have supplied and installed simillar type of systems in past 10 years and such system is working satisfactorily till date (as on date of opening of Tender) after one years of its commissioning shall quote. Vendor to provide copy of documents in support.	vendor to provide			
11.2	Vendor to provide name , address, email, phone no., fax No. of the above customer	vendor to provide			

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