

ANNEXURE - I

BHARAT HEAVY ELECTRICALS LIMITED, JHANSI

Project	Trfr. Phase-II
Equipment	Elevating Platform
Location	Trfr. Testing
Quantity	One number
Item No.	LE-1/7/6266
Specification No.	10577/Rev.-02
P.I. No.	636210619

SPECIFICATION FOR ELEVATING PLATFORM FOR BUSHING ASSY.

Note :

- VENDOR** must submit complete information against clause No-13.0 (Qualifying Condition). The offer meeting this clause would only be processed
- The "Specified/to be confirmed by vender Offered" Coloumn and where applicable, the " Devitaions" Coloumn of the format shall be filled in by the Vendor and submitted along with the offer. Technical details also submitted with the offer, - Inadequate/ Incomplete, Ambiguous, of unsustainable information against any of the clauses of the specification / requirement shall be treated as non- compliance.
- The offer and all documents enclosed with offer should be in English language only.




SCOPE:

DESIGN, MANUFACTURING, SUPPLY, ERECTION & COMMISSIONING OF ELEVATING PLATFORM AS PER SPECIFICATION BELOW

S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY VENDER	DEVIATIONS
1.0	PORPOSE & WORK PIECE MATERIAL:		
1.1	Elevating platform is required for making High Voltage Bushings connections during testing of power transformer.	VENDOR TO CONFIRM	
	Quantity : 1 No.		
1.2	Job to be tested : Power transformers, Reactors, CTs, CVTs and Bushings upto 400 KV class	VENDOR TO CONFIRM	
2.0	SPECIFICATION		
2.1	(a) Working height with full vertical lift : 16 m	VENDOR TO CONFIRM	
	(Lifting height 14.60 m, working height which operator can reach is 16.00 m)		
	(b) Length of working platform : 1.0 m ✓	VENDOR TO CONFIRM	
	Provision for extension	VENDOR TO SPECIFY	
	(c) Width of working platform - outside : 1.50 m ✓	VENDOR TO CONFIRM	
	(d) Fencing Height of working platform : 1.10 m	VENDOR TO CONFIRM	
	(e) Adjustable height of working platform : 3.45 m to 14.60 m	VENDOR TO CONFIRM	
	(f) Lifting / lowering speed of platform : 5 m / min	VENDOR TO CONFIRM	
✓2.2	Capacity of main platform : 300 kg	VENDOR TO CONFIRM	
2.3	Capacity of extendable platform : 150 kg	VENDOR TO CONFIRM	
2.4	Minimum height from ground level : 2.02 m	VENDOR TO CONFIRM	
2.5	Total ground area of the base including the outer riggers : 10 m ² (Approx.)	VENDOR TO CONFIRM	
2.6	Power Source : Diesel Engine driven	VENDOR TO CONFIRM	
2.7	The following basic features should be in-built in the equipment		

DESIGN, MANUFACTURING, SUPPLY, ERECTION & COMMISSIONING OF ELEVATING PLATFORM AS PER SPECIFICATION BELOW			
S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY VENDOR	DEVIATIONS
2.7.1	Platform	VENDOR TO SPECIFY	
2.7.1.1	Platform should have capacity to carry minimum three persons	VENDOR TO SPECIFY	
2.7.1.2	Platform shall always remain horizontal with proper hand railing for safety	VENDOR TO SPECIFY	
2.7.1.3	Platform should be capable of extending on both front and rear sides	VENDOR TO SPECIFY	
2.7.2	Infrastructure (Base of the Elevator)	VENDOR TO SPECIFY	
2.7.2.1	Stay guides for rigidity and stability, to support platform, if applicable	VENDOR TO CONFIRM	
2.7.2.2	All equipments like hydraulic power pack electrical control equipments should be fixed on the infrastructures	VENDOR TO CONFIRM	
2.7.2.3	Panel with parallel controls should be provided on infrastructure where the movement of the platform can be controlled	VENDOR TO CONFIRM	
2.7.2.4	Manual controls provided at ground level	VENDOR TO CONFIRM	
2.7.2.5	Jacks / Out riggers fitted on all four corners of infrastructure, if required	VENDOR TO CONFIRM	
2.7.3	Drive	VENDOR TO CONFIRM	
2.7.3.1	Motorized	VENDOR TO CONFIRM	
2.7.3.2	Moving should be done through pneumatic / solid tyres	VENDOR TO CONFIRM	
2.7.3.3	Steering arrangement alongwith brakes to manoeuvre the movement	VENDOR TO CONFIRM	
2.8	Applicable standard : ANSI A92.6 / European CE standards , or equivalent	VENDOR TO CONFIRM	
2.9	SAFETY ARRANGEMENTS:		
	Following safety features in addition to other standard safety features should be provided with the system :	VENDOR TO CONFIRM	
	1. System should have adequate and reliable safety interlocks / devices to avoid damage to the system, work piece and the humans	VENDOR TO CONFIRM	
	2. All electronics parts are housed in shielded enclosures	VENDOR TO CONFIRM	
	3. Safety features of the platform corresponding to American standard - ANSI A92.6 / German Regulation VBG14 or equivalent	VENDOR TO CONFIRM	
2.10	ENVIRONMENTAL PERFORMANCE OF THE SYSTEM:		
	The Equipment shall confirm to following factors related to environment :	VENDOR TO CONFIRM	
	If any safety / environmental protection enclosure is required it should be built in the system by the vendor.	VENDOR TO CONFIRM	
3	Accessories :		
3.1	All accessories necessary for complete operation of the equipment	VENDOR TO CONFIRM	
4	SPARES:		
4.1	All necessary spares for two years trouble-free operation	VENDOR TO CONFIRM	
5	DOCUMENTATION :		
5.1	Instruction manual	VENDOR TO CONFIRM	
5.2	Maintenance manual along with circuit diagrams and schematics	VENDOR TO CONFIRM	
5.3	Test and Guarantee Certificate	VENDOR TO CONFIRM	
5.4	Calibration certificate	VENDOR TO CONFIRM	

DESIGN, MANUFACTURING, SUPPLY, ERECTION & COMMISSIONING OF ELEVATING PLATFORM AS PER SPECIFICATION BELOW			
S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY VENDOR	DEVIATIONS
5.5	List of customers where equipment had been supplied earlier and performance certificate of the same	VENDOR TO CONFIRM	
5.6	Conformance certificate for safety standards	VENDOR TO CONFIRM	
6 EQUIPMENT INSPECTION :		VENDOR TO CONFIRM	
6.1	Inspection at supplier's works before dispatch	VENDOR TO CONFIRM	
6.2	Demonstration of all features of the Elevating system and all accessories	VENDOR TO CONFIRM	
7 TRAINING :			
7.1	BHEL testing engineer and maintenance person should be trained at BHEL works in the area of	VENDOR TO CONFIRM	
	(a) Use of all system Features, programming for Measuring System & supplied accessories etc.	VENDOR TO CONFIRM	
	(b) Electrical, Electronic & maintenance for system & other supplied equipments	VENDOR TO CONFIRM	
8 ERECTION & COMMISSIONING :		VENDOR TO CONFIRM	
8.1	Supplier to take full responsibility for carrying out the erection, start up, and commissioning.	VENDOR TO CONFIRM	
8.2	Successful proving of BHEL components by the supplier shall be considered as part of commissioning	VENDOR TO CONFIRM	
8.3	Demonstration of all features of the Elevating platform system & all accessories to the satisfaction of BHEL for their operational use	VENDOR TO CONFIRM	
8.4	Demonstration by actual use of all supplied components and accessories to their full capacity	VENDOR TO CONFIRM	
8.5	Commissioning spares, required for commissioning of the system within stipulated time	VENDOR TO SPECIFY	
8.6	Schedule of Erection and Commissioning shall be submitted with the offer	VENDOR TO SPECIFY	
8.7	Charges, duration, terms & conditions for E&C should be furnished in detail separately by vendor along with the offer.		
9 AMBIENT CONDITIONS & THERMAL STABILITY		VENDOR TO SPECIFY	
9.1	Total system including all supplied items should work trouble free and efficiently under following operating conditions to achieve specified accuracies. Ambient conditions : Temperature = 5 to 50 degree C	VENDOR TO SPECIFY	
	Voltage : 415 V, 3 phase, Frequency : 50 Hz± 1.5 Hz, Operating Humidity : 35% to 80%	VENDOR TO CONFIRM & SPECIFY	
	(Vendor to confirm that system is suitable for above and details of provisions made on the system are to be submitted with the offer)	VENDOR TO CONFIRM	
9.2	Thermal Stability of the complete system keeping in view of the above specified ambient conditions and accuracy requirement of the complete system		
10 PACKING		VENDOR TO CONFIRM	
10.1	Air worthy / sea worthy & rigid packing for all items of complete system, all accessories and other supplied items to be included for above type of packing		
11 GENERAL: The VENDOR should submit the following information:		VENDOR TO SUBMIT	
11.1	Equipment Model	VENDOR TO SUBMIT	
11.2	Total connected load (KVA)	VENDOR TO SUBMIT	
11.3	Total Weight of the system	VENDOR TO SUBMIT	

DESIGN, MANUFACTURING, SUPPLY, ERECTION & COMMISSIONING OF ELEVATING PLATFORM AS PER SPECIFICATION BELOW			
S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY VENDOR	DEVIATIONS
11.4	Paint / colour of platform	VENDOR TO CONFIRM	
11.5	Vendor to submit along with the offer, the reference list of customers where similar system have been supplied, mentioning the detailed contact address and phone nos.	VENDOR TO CONFIRM	
11.6	Detailed catalogues, sketch / photographs of the machine and accessories / attachments should be submitted with the offer	VENDOR TO CONFIRM	
12	GUARANTEE :		
12.1	24 Months from the date of acceptance of the complete equipment	VENDOR TO CONFIRM	
13	QUALIFYING CONDITION		
13.1	Only those vendors, who have supplied at least one elevating platform of Lifting height of 14.6 meters in the past ten years and such elevating platform is presently working satisfactorily for more than one year after commissioning, should quote. The following information is to be submitted by the Vendor about the companies where elevating platform had been supplied. This is required from all the vendors for qualification of their offer.	VENDOR TO CONFIRM	
	1. Name of the customer / company where similar elevating platform is installed. (copy of purchase order to be furnished)	VENDOR TO SPECIFY	
	2. Complete postal address of the customer.	VENDOR TO SPECIFY	
	3. Year of supplying / commissioning.	VENDOR TO SPECIFY	
	4. Name and designation of the contact person the customer.	VENDOR TO SPECIFY	
	5. Phone, FAX, no and E-mail address of the contact person of the customer.	VENDOR TO SPECIFY	
	6. Performance certificate from the customer regarding satisfactory performance of elevating platform supplied to them	VENDOR TO SUBMIT	
14	BHEL reserves the right to verify information submitted by vendor. In case the information is found to be false/ incorrect, the offer shall be rejected.		
			
	ARJUN SINGH MANAGER (WE &S)	S. N. MANDAL Sr. MANAGER (Testing)	ARVIND KULSHRESTHA AGM (TRE, FES & Trf. Testing)