

BHARAT HEAVY ELECTRICAL LIMITED, JHANSI

Specification no: 6231

Item no: MT/1/5/1550

Location: BAY-8

Quantity: ONE

SPECIFICATION CUM COMPLIANCE CERTIFICATE OF TOROIDAL C.T.WINDING MACHINE

Note

- 1 VENDOR must submit complete information against clause No-11.0 (Qualifying Condition). The offer meeting this clause would only be processed.
- 2 The "Specify/to be confirmed by vender" Column and where applicable, the "Deviations" Column of the formate shall be filled in by the Vendor and submit along with the offer. Technical details also to be submitted with the offer. Inadequate/ Incomplete Ambiguous, or unsustainable information against any of the clauses of the specification / requirement shall be treated as non-compliance.
- 3 The offer and all documents enclosed with offer should be in English language only.

SCOPE:

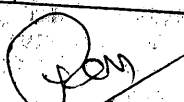
DESIGN, MANUFACTURING, SUPPLY, ERECTION & COMMISSIONING OF TOROIDAL C.T.WINDING MACHINE AS PER SPECIFICATION BELOW

S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFY/ SUBMIT / CONFIRM VENDER	VENDOR OFFER BY	DEVIATIONS
1	PORPOSE & WORK PIECE MATERIAL:			
1.1	Heavy duty TOROIDAL C.T.WINDING MACHINE is required for the winding of C.T.Coils.-Qty-01 No.	Vendor to confirm		
2	SPECIFICATION			
2.1	Make Of Machine			
2.2	Model Of offered Machine	Vendor to specify		
2.3	Minimum I.D after winding --125 MM	Vendor to specify		
2.4	Maximum O.D after winding ---500 MM	Vendor to confirm		
2.5	Maximum Height after winding --- 180 MM	Vendor to confirm		
2.6	Wire Gauge to be used for winding(Copper only) --8SWG To 20SWG	Vendor to confirm		
2.7	M/c Controller --PLC Based control system with micro processer based Controller to obtain automatic winding on core	Vendor to confirm		
2.8	Pitch Control- Through A.C Motor with close loop servo speed controller	Vendor to confirm		
2.9	Fill Counter-- 5 Digit , Preset, Digital display, Micro processer control	Vendor to confirm		
2.10	Wind Counter-- 5 Digit , Preset, Digital display, Micro processer control	Vendor to confirm		
2.11	Main Motor - A.C. Motor with close loop servo speed controller	Vendor to confirm		
2.12	Main Motor Power rating - 2.1 K.W.(Min.)	Vendor to specify		
2.13	Motor Make-SIEMENCE /ABB /BHARAT BIJLI / ROTOMOTIVE/ GEC/ CROMPTON only	Vendor to specify		
2.14	Drive Make-SIEMENCE /ABB / MITSUBISHI / SCHNEIDER only	Vendor to confirm & specify		
2.15	P.L.C Make- SIEMENCE /ABB / MITSUBISHI / SCHNEIDER only	Vendor to confirm & specify		
2.16	Additional Motor power Rating	Vendor to specify		
2.17	Core Rotation --CC,CCW Selectable	Vendor to confirm		
2.18	Shuttle Speed -- Variable up to 100 R.P.M (Min.)	Vendor to confirm & specify		
2.19	Suitable Dereeler	Vendor to confirm		
2.20	Type of Wire Tensioner System	Vendor to specify		
2.21	Electric Power required	Vendor to specify		
2.22	Details of Magazines Carrying wire for winding to be supplied with machine with respect to Point No. "1" & "2"	Vendor to specify the size & Qty.		
2.23	Machine size - Max. foot print area should not be more than 02 Meter sq.	Vendor to confirm		
3	DETAILS TO BE SUBMITTED WITH THE OFFER			
3.1	Dimensioned outline with general arrangement drawing	Vendor to submit		
3.2	Technical literature	Vendor to submit		
3.3	Any special tools required for maintenance of the equipment item wise price details	Vendor to specify		
3.4	Total electrical load	Vendor to specify		
3.5	Total weight of the equipment.	Vendor to specify		
4	SAFETY/ PROTECTION			
4.1	The equipment shall be fully safe in operation with all safety measure. Necessary guards and protection covers are to be provided to protect the equipment.	Vendor to confirm		
4.2	Over current, over voltage and any other for the protection of system/ equipment are to be included as well as suitably interlocked for the safe operation.	Vendor to confirm		
5	ACCESSORIES AND TOOLKITS			

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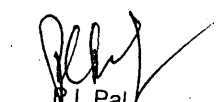
DESIGN, MANUFACTURING, SUPPLY, ERECTION & COMMISSIONING OF TOROIDAL C.T.WINDING MACHINE AS PER SPECIFICATION BELOW

S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFY/ SUBMIT / CONFIRM BY VENDER	VENDOR OFFER	DEVIATIONS
5.1	The TOROIDAL C.T.WINDING MACHINE shall be supplied complete with all standard accessories and in ready to use condition.	Vendor to confirm		
5.2	List of standard accessories & tools with M/c	Vendor to confirm & submit		
6	PAINTING			
6.1	Two coats of red oxide metal primer and finished with two coats of synthetic enamel paint of verdigris green paint.	Vendor to confirm		
7	DOCUMENTATION :			
7.1	During participation in technical Bid.			
7.1.1	Dimensioned outline G.A. Drawing.			
7.2	After Receipt of Order: (For approval)	Vendor to submit		
7.2.1	Three set of GA drawing			
7.2.2	Three sets of electrical schematic and control circuit diagram	Vendor to confirm		
7.2.3	Vender will provide foundation drawing/design with in 15 days after issuing of purchase order.	Vendor to confirm		
7.3	With the supply			
7.3.1	Three sets of M/c maintenance manual, Operation manual of m/c including Ele control & Schematic drawing, M/c Assembly & Sub Assembly drawing, Spares - part list concerned drawing of spares.	Vendor to confirm		
7.3.2	Catalogues, O&M Manuals of all bought out items including drawings- 3 set	Vendor to confirm		
8	TRAINING			
8.1	BHEL engineers should be trained at supplier's Works (during inspection) and at M/s BHEL works (during commissioning) for mutually agreed period in the area of (a) Use of all system Features, supplied accessories etc. (b) Electrical, Electronic & maintenance for system & other supplied equipments	Vendor to confirm		
9	GUARANTEE:			
9.1	24 Months form the date of commissioning of the M/c.			
10	GENERAL, ERECTION AND COMMISSIONING	Vendor to confirm		
10.1	The equipment is to be inspected & tested at supplier works by our representative before dispatch as per specification.	Vendor to confirm		
10.2	The supplier must inform 15 days in advance to M/s BHEL for the inspection of machine.			
10.3	Complete erection and commissioning work will be in the scope of vender with his own tools and labour.	Vendor to confirm		
10.4	civil work related to foundation will be in the scope of BHEL. (vender to submit foundation drawing within 15 days from the date of issue of P.O.)	Vendor to confirm		
10.5	Successful proving of component by the supplier shall be considered as part of commissioning	Vendor to confirm		
10.6	Schedule of Commissioning shall be submitted before starting the commissioning.	Vendor to confirm		
10.7	M/s BHEL will provide Electric supply, air, water supply at a single point as indicated by supplier during commissioning of machine. Distribution of the same will be in the scope of supplier.	Vendor to confirm		
11	QUALIFYING CONDITION			
11.1	Only those venders, who have supplied and installed at least two No. of TOROIDAL C.T.WINDING MACHINE (same or heigher capacity for same type of work piece material) in last five year 's should quote. P.O. COPY & INSTALLATION REPORT/ COMMISSIONING REPORT/ WORK COMPLETION REPORT/ DISPATCH DOCUMENT/ PERFORMANCE REPORT /SERVICE REPORT must be submitted with offer.	Vendor to submit		
12	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.	Vendor to confirm		


Y.K. Dhingra
Dy. Mgr. (WEX)


Vijay Verma
Mgr. (WEX)


J.P. Soni
Mgr. (WEX)


R.L. Pal
Sr. Mgr. (TRM)