

BHARAT HEAVY ELECTRICALS LIMITED HEAVY POWER EQUIPMENT PLANT RAMACHANDRAPURAM, HYDERABAD - 502 032

Enquiry No. :
Due Date :
Quotation. No:
Date :

TENDER DOCUMENTS TO BE FILLED BY SUPPLIER FOR SUPPLY OF

Permanent Magnet DC Tacho-Generator

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.

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TELEPHONE NOS.:

FAX NOS.:

E-MAIL ADDRESS:

S no.	Description for BHEL Requirement:	To be Specified / Confirmed by Vendor	Offered	Deviations	Remarks
	Title : Permanent Magnet Tacho-Generator				
	Replacement of existing Permanent Magnet DC Tacho-generator.				
1	Technical requirements:				
1.1	The existing Permanent Magnet DC Tacho-generator shall be replaced by new Permanent Magnet DC Tacho-generator. DC Tacho generator is mounted to 112.5kW DC drive motor shaft extension and is connected to DC Thyristor control panel for speed feedback.				
1.2	Details of existing Permanent Magnet DC Tacho-generator are as follows				
1.2.1	Make: G.E.C. Machines LTD				
1.2.2	Model: BD2510				
1.2.3	OCV/rev/min: 0.1 V				
1.2.4	Max Rev/min : 4000 RPM				
1.2.5	Max Amp : 0.1 Amps				
1.3	Details of model, type, rating, etc. of the offered Permanent Magnet DC Tacho-generator should be furnished by the vendor				
1.4	The new Permanent Magnet DC Tacho-generator shall comply with the following specifications & requirements :				
1.4.1	OCV/rev/min: 0.1 V	Vendor to Confirm			
1.4.2	Max Rev/min : 4000 RPM	Vendor to Confirm			
1.4.3	Max Amp : 0.1 Amps	Vendor to Confirm			
1.4.4	Linearity Error ≤ ± 0.5%	Vendor to Confirm			
1.4.5	Maximum Voltage Ripple ≤ ± 0.5%	Vendor to Confirm			
1.4.6	Voltage Regulation ≤ ± 5%	Vendor to Confirm			
1.4.7	Insulation: Class F	Vendor to Confirm			
1.4.8	Protection: Totally Enclosed	Vendor to Confirm			
1.4.9	Brushes: Silver Graphite/Carbon Graphite	Vendor to Confirm			

1.5	Armature			
1.5.1	Provision for connecting & disconnecting field cable at armature terminals shall be made available.	Vendor to Confirm		
1.6	Mounting Type : Flange	Vendor to Confirm		
1.7	Equal Brush tension & Spark free operation shall be ensured.	Vendor to Confirm		
1.8	OGA Requirement :Refer to Annexure-I	Vendor to Confirm		
1.9	Direction of Rotation: CW & CCW(Bi-Diectional)	Vendor to Confirm		
2	DOCUMENTATION :			
2.1	Two sets of Hard copies of following documents in English language should be supplied along with tacho generator	Vendor to Confirm		
2.2	Catalogues, Operation & Maintenance Manuals	Vendor to Confirm		
2.3	Data sheet	Vendor to Confirm		
2.4	Complete Parts List with details of Make, Specifications, Order No. etc.	Vendor to Confirm		
3	GENERAL POINTS TO BE NOTED BY VENDOR:			
3.1	The Vendor shall quote on his own and shall take full responsibility of supplying.	Vendor to Confirm		
3.2	It is the responsibility of the vendor to ensure completeness of material & electricals supplied	Vendor to Confirm		
	Pre-Qualification Criteria			
3.3	Vendor should have supplied Two(2) numbers similar or higher rating tacho generators in the last 5 years and supporting documents like purchase order shall be furnished along with the offer.	Vendor to Confirm		
4	ELECTRICAL DRAWINGS FOR APPROVAL BY BHEL :			
4.1	Before commencing manufacture/fabrication of tacho-generator, OGA & electrical drawing should be submitted to BHEL for approval.	Vendor to Confirm	-	

BD2510 Tachogenerator Dimensions

