

PROJECT: NSPCL-ROURKELA PP-II EXPANSION(1 X 210MW) CONTRACTOR: BHEL - RANIPET CONTRACT NO: CC&M-C-347-211		CONTRACT QUALITY REQUIREMENTS (CQR) for <u>LT Motors above 50KW</u> NSPCL-ROURKELA PP-II EXPANSION (1 X 250MW) EPC PACKAGE (BHEL CUST No: R 377)	DOC.NO: BAP/QR/R377/ LTM:012 Rev NO. : 00 PAGE : Page 1 of 2 DATE: 15 11 2016	##Enquiry No: ##Supplier Name: ##Offer reference: ##Date:
Sl. NO.	DESCRIPTION	BHEL/NTPC Requirements		##Specific confirmations by the vendor

ITEM: LT Motors above 50KW

01	Type Test Requirements	1. Vendor shall submit the type test reports of all the type tests as listed in SL NO:3 and carried out with in 10 years from the data of NTPC bid opening (02 04 2015). These reports should be for the test conducted on the similar equipment to those proposed to be supplied under this enquiry and test(s) should have been either conducted at an independent laboratory (or) should have been witnessed by TPI/BHEL/NTPC.	
		2. However if vendor is not able to submit the similar type test report as per above condition (or) in the case of type test reports are not found to be meeting the specification requirement, the vendor shall conduct all the tests at no additional cost to BHEL either at third party lab (or) own lab in the presence of TPI/BHEL/NTPC and submit the reports for approval.	
		3. Type Test reports review and approval by NTPC is a must.	
		The following Type test reports shall submitted for above 50KW LT Motor - Measuring of resistance of winding of stator and wound rotor (if applicable) - No load test at rated voltage to determine input current , power and speed. - Open circuit voltage ratio of wound rotor motor (in case slip ring motors) - Full load test to determine efficiency power factor and slip - Temperature rise test. - Momentary excess load test - High voltage test - Test for vibration severity of motor - Test of noise levels of motor (Noise level for all the motors shall be limited to 85dB(A) except for BFP motor for which the maximum limit shall be 90dB(A).) - Over speed test - Degree of Protection Tests. - Type test reports for motors located in fuel oil area having flame proof enclosures as per IS 2148/ IEC 60079-1	
		4. The TCs/Test reports shall also be given as PDF file with indexsheet & page control thro Email & CD (File size to less than 9MB).()	

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ITEM: LT Motors above 50KW

02	Quality Plan Requirement	1. RQP or MQP is applicable for these LT Motor . 2. If vendor has NTPC approved RQP and having validity, the same is applicable for these LT Motor for inspection. 3. Vendor shall submit the filled up Endorsement sheet for RQP with signature & seal in the event of purchase order. 4. If vendor does not have RQP, they should submit a fresh MQP to BHEL/NTPC for review & approval.	
		5. Specific confirmation for Document Package in the event of an order (2 hard copies + 2 CDs in Pdf file) is to be given containing the following with proper linkages (.) (i) Index Sheet (ii) QP/RQP/Endorsement sheet (iii) TCs identified by BHEL/NTPC for record for "CHP" and Verification portion as given in RQP/QP. (iv) Final Inspection Report + TC (v) BHEL/BHEL authorized Inspection Agency report + TC (vi) NTPC CHP/MDCC (vii) Type test reports conducted/submitted with approval with approved data sheet. (viii) BOM with actual make used with customer approved drgs.	
03	Painting Requirements	1) No separate approval on painting schedule is envisaged for this item from NTPC . However the painting requirement like paint shade and painting thickness etc are to be finalized by the vendor with BHEL/NTPC as indicated in the relevant BHEL specification/drg/BOM and enquiries etc	
04	Packing	Shall be as per Specification/Drg. so that any transit damage can be avoided.	

Supplier signature with seal

Necessarily to be filled up by the vendor at the time of offer itself otherwise the offer may not be considered w.r.t Quality Requirements being customer specific requirements.