

PROJECT: NTPC-NCTPP DADRI-II (4X490MW) FGD PACKAGE CONTRACTOR:BHEL-RANIPET CONTRACT NO: .: CS-6130-109-9		CONTRACT QUALITY REQUIREMENTS (CQR) for POWER & CONTROL CABLE NTPC-NCTPP DADRI-II (4X490MW) FGD PACKAGE (BHEL CUST No: G501& G502)	DOC.NO: BAP/QR/G501&G502/ P&C:009 Rev NO. : 00 PAGE : Page 1 of 2 DATE: 17 05 2018	##Enquiry No: ##Supplier Name: ##Offer reference: ##Date:
Sl. NO.	DESCRIPTION	BHEL/NTPC Requirements		##Specific confirmations by the vendor

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01	Type Test Requirements	- Vendor shall submit the type test reports of all the type tests as listed in SL NO:4 and carried out with in 10 years from the data of NTPC bid opening date 19 12 2017. 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. - 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 - Type Test reports review and approval by NTPC is a must - The following type test certificates shall be submitted. <u>CONDUCTOR</u> ✓ Resistance test : For Al/Cu ✓ Tensile test : For circular non-compacted conductors only ✓ Wrapping test: For circular non-compacted only <u>ARMOUR WIRES/FORMED WIRES (If it is applicable)</u> ✓ Measurement of dimensions ✓ Tensile test ✓ Elongation test ✓ Torsion test : For round wire only ✓ Wrapping test: For aluminum wires/formed wires only ✓ Resistance Test ✓ Mass of zinc coating test : For GS formed wires/ wires only ✓ Uniformity of Zinc coating t: For GS formed wires/wires only. ✓ Adhesion test : For GS formed wires/wires only. <u>PVC INSULATION & PVC SHEATH</u> ✓ Test for thickness ✓ Tensile strength and elongation test before ageing and after ageing ✓ Ageing in air oven ✓ Loss of mass test: For PVC Insulation & PVC sheath only ✓ Hot deformation test: PVC insulation & PVC sheath only. ✓ Shrinkage test ✓ Thermal stability test: For PVC insulation & PVC sheath only ✓ Oxygen index test: For outer sheath only ✓ Smoke density test : For other sheath only ✓ Acid gas generation test: For outer sheath only ✓ Heat shock Test: For PVC insulation & sheath only ✓ Hot set test (For XLPE Insulation Only) ✓ Water absorption test (For XLPE Insulation only) <u>COMPLETED CABLES</u> ✓ Flammability test as per IEC 332 Part – III. Cat -B ✓ Insulation Resistance test (Volume Resistivity Method) ✓ High Voltage Test	
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		5. The Test reports along with test certificates shall also be given as PDF file with index sheet & page control thro Email & CD (File size to less than 9MB).(.)	
02	Quality Plan Requirement	1. NTPC SQP ref: SQP-0000-999-QOE-S-040 Rev: 00 Dt 21 01 2014 is applicable for Control cable and NTPC SQP ref: SQP-0000-999-QOE-S-041 Rev 00 Dt 21 01 2014 is applicable for Power cable. 2. The applicable NTPC SQPs for control and power cables are attached. 3. Vendor shall submit the filled up Endorsement sheet for above NTPC approved SQPs separately for control cable and power cable with signature & seal along with this offer (typical copy attached).	
		4. 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) MQP/RQP/Endorsement sheet (iii) TCs identified by BHEL/NTPC for record for “CHP” and Verification portion as given in RQP/MQP. (iv) Final Inspection Report + all applicable Test Certificates (v) BHEL/BHEL authorized Inspection Agency report + TC (vi) Type test reports conducted/submitted with approval (vii) NTPC CHP/MDCC	

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.