PROCUREMENT PROCEDURE OF CPRI (NON WORKS)

Revision No. Issue No : 2 Dt of Revision : 27.08.2020 Issue Dt. : 30.06.2003 Page No. : 1 of 2 Issued by : P A Section Documents : PPM : Formats Topic : Technical Specifications format FORMAT NO.:CPRI/PUR/@TBID/GTP

Section IV T - Technical Specification

CENTRAL POWER RESEARCH INSTITUTE, BENGALURU/BHOPAL Web: www.cpri.in, www.tenderwizard.com/CPRI

Tender Enquiry No: CPRIBLR21HPL01C766

Description of the Equipment/Goods/Services: ESTABLISHMENT OF 40,000A TEMPERATURE RISE TEST FACILITY AT HIGH POWER LABORATORY, CPRI, BENGALURU: 1) 500kVA, 11/0.433kV, 50Hz, Three phase transformer,

SUOKVA, 11/0.4338V, 50Hz, 1 nree pnase transformer,
 250kVA, 11/0.4338V, 50Hz, Three phase transformer and
 250kVA, 0.4/3.3kV, 50/60Hz, Three phase inverter duty transformer.

Note: 1) The technical bid submitted in other than this format is liable to be rejected.

2) All blue fields are mandatorily to be filled in. Name and address of the bidder Quotation Number and Date To be completed by the Bidder Detials of guaranteed technical parameters offered by the bidder Guaranteed Technical Particulars (GTP) Deviations from GTP Sl.No. Parameters CPRI Technical Specification / Requirements Qty Place where equipment /service to be supplied /provided High Power Laboratory, CPRI, Bangalore One number of each transforme This specification covers the design, engineering, manufacture, assembly, stage inspection, testing at manufacturer's works, Type and Special tests, design rating (Total -03 Nos) inputs for foundation, packing and transportation, insurance, supply, loading, unloading, handling, storage erection installation, site testing and commissioning of 1) 500kVA, 11/0,433kV, 50Hz, Three phase transforme (01 No.) - TR(11)1. 2) 250kVA, 11/0.433kV, 50Hz, Three phase transformer (01 No.) - TR(11)2 and 3) 250kVA, 0.4/3.3kV, 50/60Hz, Three phase inverter duty transformer (01 No.) – TR(3.3), complete with all fittings, and spares, for establishment of 40,000A Temperature Rise Test Facility at High Power Laboratory, CPRI-Bengaluru, India.

PROCUREMENT PROCEDURE OF CPRI (NON WORKS)

Revision No. : 04 Issue No : 2 Dt of Revision : 27.08.2020 Issue Dt. : 30.06.2003 Page No. Section Issued by : P A
Documents : PPM : 2 of 2 : Formats FORMAT NO.:CPRI/PUR/@TBID/GTP Topic : Technical Specifications format

Section IV T - Technical Specification

Sun. Parameters Per	CENTRAL POWER RESEARCH INSTITUTE, BENGALURU/BHOPAL Web: www.cpri.in, www.tenderwizard.com/CPRI							
Technical specification of Particulars (GPP) Details of guaranteed reference (Particulars (GPP)					To be completed by the Bidder			
13 500WA, 11/0 A33W, 50Hz, Three phase transformer (01 No.) - TR(11)1 and 2 2	Sl.No.	Parameters	CPRI Technical Specification / Requirements	Qty			Deviations from GTP	
1 Foreword Refer Clause 1 to of Annexure-1	1) 500kVA, 11/0.433kV, 50Hz, Three phase transformer (01 No.) - TR(11)1 and 2) 250kVA, 11/0.433kV, 50Hz, Three phase transformer (01 No.) - TR(11)2			each transformer rating				
Separate Refer Clause 2.0 of Annexure-1	1	Foreword	Refer Clause 1.0 of Annexure-I	(Total-03 NOS)				
Source Climatic Conditions Refer Clause 5.0 of Annexure-1	2	General						
Signate Particulars Refer Clause 4 of Annexure-1	3	Scope	Refer Clause 3.0 of Annexure-I					
Standards			Refer Clause 4.0 of Annexure-I					
7 Main Technical Characteristics Refer Clause 7.0 of Annexure-1	5	System Particulars	Refer Clause 5.0 of Annexure-I					
Nesure	6	Standards	Refer Clause 6.0 of Annexure-I					
Measures	7	Main Technical Characteristics	Refer Clause 7.0 of Annexure-I					
10 Inspection and Quality Assurance Refer Clause 10.0 of Annexure-1	8		Refer Clause 8.0 of Annexure-I					
11 Technical Information to be Submitted with the Bid Submitted w	9	Tests to be Performed	Refer Clause 9.0 of Annexure-I					
Submitted with the Bid Refer Clause 12.0 of Annexure-1 13 Performance Guarantee Refer Clause 13.0 of Annexure-1 14 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-1 15 Figure (Single line diagram of the test Refer Annexure-1 16 Appendix Refer Annexure-1 16 Appendix Refer Annexure-1 17 Foreword Refer Clause 1.0 of Annexure-1 1 Foreword Refer Clause 2.0 of Annexure-1 2 General Refer Clause 2.0 of Annexure-1 3 Scope Refer Clause 3.0 of Annexure-1 4 Climatic Conditions Refer Clause 4.0 of Annexure-1 5 System Particulars Refer Clause 5.0 of Annexure-1 6 Standards Refer Clause 5.0 of Annexure-1 7 Main Technical Characteristics Refer Clause 8.0 of Annexure-1 8 Design Recommendations and Safety Refer Clause 8.0 of Annexure-1 10 Inspection and Quality Assurance Refer Clause 9.0 of Annexure-1 11 Technical Information to be Refer Clause 11.0 of Annexure-1 12 Installation and Commissioning Refer Clause 13.0 of Annexure-1 13 Performance Refer Clause 13.0 of Annexure-1 14 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-1 15 Figure (Single line diagram of the test Refer Clause 14.0 of Annexure-1 16 Standards Refer Clause 14.0 of Annexure-1 17 Technical Information to be Refer Clause 13.0 of Annexure-1 18 Spare Parts and Maintenance Refer Clause 13.0 of Annexure-1 16 Spare Parts and Maintenance Refer Clause 13.0 of Annexure-1 18 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-1 19 Figure (Single line diagram of the test Refer Clause 14.0 of Annexure-1 19 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-1 10 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-1 10 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-1 10 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-1 10 Spare Parts and Maintenance Refer Clause 14.0 of	10	Inspection and Quality Assurance	Refer Clause 10.0 of Annexure-I					
13 Performance Guarantee Refer Clause 13.0 of Annexure-1 Refer Clause 14.0 of Annexure-1 Refer Clause 15.0 of Annexure-1 Refer Clause 16.0 of Annexure-1 Refer Clause 16.0 of Annexure-1 Refer Clause 17.0 of Refer Cla	11		Refer Clause 11.0 of Annexure-I					
14 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-1 Characteristics Refer Annexure-1 Characteristics Refer Clause 12.0 of Annexure-1 Characteristics Characteristic	12	Installation and Commissioning	Refer Clause 12.0 of Annexure-I					
Figure (Single line diagram of the test facility - Only for illustrative purpose) Refer Annexure-1	13	Performance Guarantee	Refer Clause 13.0 of Annexure-I					
facility Only for illustrative purpose) Refer Annexure-I Technical specification of 1 Foreword Refer Clause 2.0 of Annexure-II 2 General Refer Clause 2.0 of Annexure-II 3 Scope Refer Clause 3.0 of Annexure-II 4 Climatic Conditions Refer Clause 4.0 of Annexure-II 5 System Particulars Refer Clause 6.0 of Annexure-II 6 Standards Refer Clause 6.0 of Annexure-II 7 Main Technical Characteristics Refer Clause 6.0 of Annexure-II 8 Design Recommendations and Safety Measures Performed Refer Clause 9.0 of Annexure-II 10 Inspection and Quality Assurance Refer Clause 10.0 of Annexure-II 11 Technical Information to be Submitted with the Bid Submitted with the Bid Submitted with the Bid Submitted or Installation and Commissioning Refer Clause 13.0 of Annexure-II 13 Performance Guarantee Refer Clause 14.0 of Annexure-II 14 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-II 15 Figure (Single line diagram of the test facility - Only for illustrative purpose) Refer Clause 14.0 of Annexure-II 16 Figure (Single line diagram of the test facility - Only for illustrative purpose)	14	Spare Parts and Maintenance	Refer Clause 14.0 of Annexure-I	One number of				
Technical specification of 1 Forword Refer Clause 1.0 of Annexure-II 2 General Refer Clause 2.0 of Annexure-II 3 Scope Refer Clause 3.0 of Annexure-II 4 Climatic Conditions Refer Clause 4.0 of Annexure-II 5 System Particulars Refer Clause 5.0 of Annexure-II 6 Standards Refer Clause 5.0 of Annexure-II 7 Main Technical Characteristics Refer Clause 6.0 of Annexure-II 8 Design Recommendations and Safety Measures 9 Tests to be Performed Refer Clause 9.0 of Annexure-II 10 Inspection and Quality Assurance Refer Clause 1.0 of Annexure-II 11 Technical Information to be Submitted with the Bid Submitted with the Bid Submitted with the Bid Refer Clause 1.2 of Annexure-II 13 Performance Guarantee Refer Clause 1.3. of Annexure-II 14 Spare Parts and Maintenance Refer Clause 1.3. of Annexure-II 15 Figure (Single line diagram of the test facility - Only for illustrative purpose) Refer Annexure-II Refer Annexure-II Refer Clause II.0 of Annexure-II Refer Claus	15		Refer Annexure-I					
1 Foreword Refer Clause 1.0 of Annexure-II 2 General Refer Clause 2.0 of Annexure-II 3 Scope Refer Clause 3.0 of Annexure-II 4 Climatic Conditions Refer Clause 3.0 of Annexure-II 5 System Particulars Refer Clause 5.0 of Annexure-II 6 Standards Refer Clause 6.0 of Annexure-II 7 Main Technical Characteristics Refer Clause 6.0 of Annexure-II 8 Design Recommendations and Safety Measures 9 Tests to be Performed Refer Clause 9.0 of Annexure-II 10 Inspection and Quality Assurance Refer Clause 9.0 of Annexure-II 11 Technical Information to be Refer Clause 11.0 of Annexure-II 12 Installation and Commissioning Refer Clause 12.0 of Annexure-II 13 Performance Guarantee Refer Clause 13.0 of Annexure-II 14 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-II 15 Figure (Single line diagram of the test facility - Only for illustrative purpose) Refer Annexure-II Refer Clause 14.0 of Annexure-II Refer Clause I4.0 of A	16	Appendix- 1	Refer Annexure-I	rating				
2 General Refer Clause 2.0 of Annexure-II 3 Scope Refer Clause 3.0 of Annexure-II 4 Climatic Conditions Refer Clause 4.0 of Annexure-II 5 System Particulars Refer Clause 5.0 of Annexure-II 6 Standards Refer Clause 5.0 of Annexure-II 7 Main Technical Characteristics Refer Clause 7.0 of Annexure-II 8 Design Recommendations and Safety Measures 9 Tests to be Performed Refer Clause 8.0 of Annexure-II 10 Inspection and Quality Assurance Refer Clause 9.0 of Annexure-II 11 Technical Information to b Submitted with the Bid Submitted with the Bid Installation and Commissioning Refer Clause 12.0 of Annexure-II 13 Performance Guarantee Refer Clause 13.0 of Annexure-II 14 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-II 15 Figure (Single line diagram of the test facility - Only for illustrative purpose) Refer Annexure-II Refer Clause 14.0 of Annexure-II Refer Clause 15.0 of A	Technical specification of			(Total -03 Nos)				
3 Scope Refer Clause 3.0 of Annexure-II 4 Climatic Conditions Refer Clause 4.0 of Annexure-II 5 System Particulars Refer Clause 5.0 of Annexure-II 6 Standards Refer Clause 5.0 of Annexure-II 7 Main Technical Characteristics Refer Clause 5.0 of Annexure-II 8 Design Recommendations and Safety Refer Clause 8.0 of Annexure-II 9 Tests to be Performed Refer Clause 9.0 of Annexure-II 10 Inspection and Quality Assurance Refer Clause 10.0 of Annexure-II 11 Technical Information to b Submitted with the Bid Refer Clause 12.0 of Annexure-II 12 Installation and Commissioning Refer Clause 12.0 of Annexure-II 13 Performance Guarantee Refer Clause 13.0 of Annexure-II 14 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-II 15 Figure (Single line diagram of the test facility - Only for illustrative purpose) Refer Annexure-II 16 Submitted with the Bid Refer Clause 14.0 of Annexure-II 17 Performance Guarantee Refer Clause 15.0 of Annexure-II 18 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-II 19 Figure (Single line diagram of the test facility - Only for illustrative purpose)		Foreword	Refer Clause 1.0 of Annexure-II					
4 Climatic Conditions Refer Clause 4.0 of Annexure-II 5 System Particulars Refer Clause 5.0 of Annexure-II 6 Standards Refer Clause 6.0 of Annexure-II 7 Main Technical Characteristics Refer Clause 7.0 of Annexure-II 8 Design Recommendations and Safety Measures 9 Tests to be Performed Refer Clause 9.0 of Annexure-II 10 Inspection and Quality Assurance Refer Clause 9.0 of Annexure-II 11 Technical Information to be Submitted with the Bid Submitted with the Bid Submitted with the Bid Spare Parts and Maintenance Refer Clause 13.0 of Annexure-II 13 Performance Guarantee Refer Clause 14.0 of Annexure-II 14 Spare Parts and Maintenance Refer Clause I4.0 of Annexure-II 15 Figure (Single line diagram of the test facility - Only for illustrative purpose) Refer Annexure-II	2	General	Refer Clause 2.0 of Annexure-II					
5 System Particulars Refer Clause 5.0 of Annexure-II 6 Standards Refer Clause 6.0 of Annexure-II 7 Main Technical Characteristics Refer Clause 7.0 of Annexure-II 8 Design Recommendations and Safety Measures 9 Tests to be Performed Refer Clause 9.0 of Annexure-II 10 Inspection and Quality Assurance Refer Clause 10.0 of Annexure-II 11 Technical Information to be Refer Clause 11.0 of Annexure-II 12 Installation and Commissioning Refer Clause 12.0 of Annexure-II 13 Performance Guarantee Refer Clause 13.0 of Annexure-II 14 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-II 15 Figure (Single line diagram of the test facility - Only for illustrative purpose) Refer Annexure-II Refer Clause 14.0 of Annexure-II Refer Clause 15.0 of Annexure-	3	Scope	Refer Clause 3.0 of Annexure-II					
6 Standards Refer Clause 6.0 of Annexure-II 7 Main Technical Characteristics Refer Clause 7.0 of Annexure-II 8 Design Recommendations and Safety Refer Clause 8.0 of Annexure-II 9 Tests to be Performed Refer Clause 9.0 of Annexure-II 10 Inspection and Quality Assurance Refer Clause 10.0 of Annexure-II 11 Technical Information to b Submitted with the Bid Installation and Commissioning Refer Clause 11.0 of Annexure-II 12 Installation and Commissioning Refer Clause 12.0 of Annexure-II 13 Performance Guarantee Refer Clause 13.0 of Annexure-II 14 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-II 15 Figure (Single line diagram of the test facility - Only for illustrative purpose) Refer Annexure-II Refer Clause 14.0 of Annexure-II Refer Clause 15.0 of Annexure-II Refer C	4	Climatic Conditions	Refer Clause 4.0 of Annexure-II					
7 Main Technical Characteristics Refer Clause 7.0 of Annexure-II 8 Design Recommendations and Safety Mefer Clause 8.0 of Annexure-II 9 Tests to be Performed Refer Clause 9.0 of Annexure-II 10 Inspection and Quality Assurance Refer Clause 10.0 of Annexure-II 11 Technical Information to be Submitted with the Bid Submitted with the Bid Submitted with the Bid Spare Parts and Maintenance Refer Clause 13.0 of Annexure-II 13 Performance Guarantee Refer Clause 13.0 of Annexure-II 14 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-II 15 Figure (Single line diagram of the test facility - Only for illustrative purpose) Refer Annexure-II	5							
Besign Recommendations and Safety Measures Performed Refer Clause 9.0 of Annexure-II Inspection and Quality Assurance Refer Clause 10.0 of Annexure-II Technical Information to be Refer Clause 11.0 of Annexure-II Installation and Commissioning Refer Clause 12.0 of Annexure-II Refer Clause 11.0 of Annexure-II Spare Parts and Maintenance Refer Clause 13.0 of Annexure-II Figure (Single line diagram of the test facility - Only for illustrative purpose) Refer Annexure-II								
Measures Refer Clause 9.0 of Annexure-II Refer Clause 10.0 of Annexure-II Refer Clause 11.0 of Annexure-II Refer Clause 11.0 of Annexure-II Refer Clause 11.0 of Annexure-II Refer Clause 12.0 of Annexure-II Refer Clause 13.0 of Annexure-II Refer Clause 14.0 of Annexure-II Refe	7							
10 Inspection and Quality Assurance Refer Clause 10.0 of Annexure-II 11 Technical Information to be Refer Clause 11.0 of Annexure-II 12 Installation and Commissioning Refer Clause 12.0 of Annexure-II 13 Performance Guarantee Refer Clause 13.0 of Annexure-II 14 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-II 15 Figure (Single line diagram of the test facility - Only for illustrative purpose) 18 Refer Annexure-II 19 Performance Guarantee Refer Clause 14.0 of Annexure-II 19 Performance Guarantee Refer Clause 14.0 of Annexure-II 10 Performance Guarantee Refer Clause 14.0 of Annexure-II 11 Performance Guarantee Refer Clause 14.0 of Annexure-II 12 Performance Guarantee Refer Clause 14.0 of Annexure-II 13 Performance Guarantee Refer Clause 14.0 of Annexure-II 14 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-II 15 Performance Guarantee Refer Clause 14.0 of Annexure-II 16 Performance Guarantee Refer Clause 15.0 of Annexure-II 17 Performance Guarantee Refer Clause 15.0 of Annexure-II 18 Performance Guarantee Refer Clause 15.0 of Annexure-II 19 Performance Guarantee Refer Clause 15.0 of Annexure-II 20 Performance Guarantee Refer Clause 15.0 of Annexure-II 21 Performance Guarantee Refer Clause 15.0 of Annexure-II 22 Performance Guarantee Refer Clause 15.0 of Annexure-II 23 Performance Guarantee Refer Clause 15.0 of Annexure-II 24 Performance Guarantee Refer Clause 15.0 of Annexure-II 25 Performance Guarantee Refer Clause 15.0 of Annexure-II 26 Performance Guarantee Refer Clause 15.0 of Annexure-II	8		Refer Clause 8.0 of Annexure-II					
11 Technical Information to be Submitted with the Bid Submitted Submitte								
Submitted with the Bid 12 Installation and Commissioning Refer Clause 12.0 of Annexure-II 13 Performance Guarantee Refer Clause 13.0 of Annexure-II 14 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-II 15 Figure (Single line diagram of the test facility - Only for illustrative purpose) Refer Annexure-II Refer Annexure-II								
13 Performance Guarantee Refer Clause 13.0 of Annexure-II 14 Spare Parts and Maintenance Refer Clause 14.0 of Annexure-II 15 Figure (Single line diagram of the test facility - Only for illustrative purpose) Refer Annexure-II 16 Performance Guarantee Refer Clause 14.0 of Annexure-II 17 Figure (Single line diagram of the test facility - Only for illustrative purpose)	11	Submitted with the Bid	Refer Clause 11.0 of Annexure-II					
Spare Parts and Maintenance Refer Clause 14.0 of Annexure-II Figure (Single line diagram of the test facility - Only for illustrative purpose) Refer Annexure-II Refer Annexure-II Spare Parts and Maintenance Refer Clause 14.0 of Annexure-II Refer Annexure-II Spare Parts and Maintenance Refer Clause 14.0 of Annexure-II Spare Parts and Maintenance Refer Clause 14.0	12	Installation and Commissioning	Refer Clause 12.0 of Annexure-II					
Figure (Single line diagram of the test facility - Only for illustrative purpose) Figure (Single line diagram of the test facility - Only for illustrative purpose)	13		Refer Clause 13.0 of Annexure-II					
facility - Only for illustrative purpose)		Spare Parts and Maintenance	Refer Clause 14.0 of Annexure-II					
	15		Refer Annexure-II					
	16		Refer Annexure-II					

PN: 1) Mere statement of "Complied" do not suffice the requirement. The details of technical parameters in proof of CPRI requirements shall be furnished along with technical write-up, catalogues, brouchers, literatures, phamplates, or any other documents shall be submitted in hard copy along with technical bid.
2) Calibration reports/certificates, factory test reports/certificates from an accreditated agencies/facilites shall be submitted wherever applicable.
3) CPRI reserves the right to conduct "precisionath inspection" prior to dispatch at the works of the supplier and the expenditure towards PDI shall be borne by CPRI. However information regarding the rediness of the equipment/machinary for the PDI shall be communicated in writing at lease 70 days in advance.