

PROCUREMENT PROCEDURE OF CPRI (NON WORKS)

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Section IV T -Technical Specification

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

Tender Enquiry No : CPRI/BLR21MUAD24S712

Description of the Equipment/Goods/Services : Supply of "Three phase Coupling Decoupling Network (CDN) and accessories" for the existing EFT/Burst immunity test system (Model: AXOS 5

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

Sl.No.	Technical Specifications/Parameters	Qty	To be completed by the Bidder		
			Details of guaranteed technical parameters offered by the bidder	Guaranteed Technical Particulars (GTP)	Deviations from GTP
1.0	Scope: Supply, Integration, Installation and Commissioning of "Three phase Coupling Decoupling Network (CDN) manual type and accessories" for the existing EFT/Burst immunity test system (Model: AXOS 5 EFT/Burst, Make: Haefely).				
1.1	Supply includes "Three phase Coupling Decoupling Network (CDN) manual type and accessories" for the existing EFT/Burst immunity test system (Model: AXOS 5 EFT/Burst, Make: Haefely).	01 No.			
2.0	Place where equipment to be supplied: CPRI, Bengaluru.				
3.0	The quoted "Three phase Coupling Decoupling Network (CDN) " shall comply with all the requirements mentioned in IEC 61000-4-4: 2012 and the characteristics of the Three phase CDN shall comply with clause 6.3.1 of IEC 61000-4-4: 2012. The quoted Three phase CDN shall be compatible for the existing EFT/Burst immunity test system (Model: AXOS 5 EFT/Burst, Make: Haefely) for carrying out Electrical fast transients/bursts test as per IEC 61000-4-4: 2012. Technical evidence shall be submitted along with this GTP for the suitability of quoted Three phase CDN to use along with our existing EFT/Burst immunity test system (Model: AXOS 5 EFT/Burst, Make: Haefely).				
4.0	Technical specification of Three phase Coupling Decoupling Network (CDN):				
4.1	The above said combination of quoted Three phase CDN and our existing test system shall be suitable for testing all lines in common mode to AC and DC power ports of EUT.				
4.2	Burst Coupling : common mode to all supply lines Coupling common mode : to L1, L2, L3, N, PE.				
4.3	EFT/Burst voltage: max. 4kV±10%				
4.4	Residual voltage : The residual test pulse voltage on the power inputs of the CDN when the EUT and the power network are disconnected shall not exceed 400 V when measured individually at each input terminal (L1, L2, L3, N to PE) with a single 50 Ω termination and when the generator is set to 4 kV and the CDN is set in common mode coupling, this means to couple the transients to all lines simultaneously.				

4.5	EUT Power port rating:- Lines : AC: L1, L2, L3, N, PE DC: L1 and N for DC supply Voltage rating : max. 3x440V AC (Phase - Phase) continuous; max. 600V DC continuous Current rating: max. 63A AC/DC continuous				
4.6	Output socket : Screw terminal rated for 63Amps AC/DC, 3x440V (P-P) AC, 600V DC continuous.				
4.7	Cable for interconnection of our EFT/Burst immunity test system (Model: AXOS 5 EFT/Burst, Make: Haefely) and quoted Three phase CDN : Cable length of 1.5 meters along with Safety High Voltage (SHV) connectors at both ends shall be provided.				
4.8	Environment conditions: Temperature : 10 to 40°C Relative Humidity : Upto 75% RH, non condensing				
5.0	Calibration: (1) Calibration Certificate shall be submitted for the quoted Three phase Coupling Decoupling Network (CDN). The calibration certificate shall be from ILAC/APLAC/any NABL accredited laboratories as per ISO/IEC 17025: 2017. The calibration results shall comply with the specifications as per IEC 61000-4-4: 2012. The calibration certificate shall be in favour of CPRI, Bengaluru. (2) After supply of Three phase CDN, it shall be calibrated along with the existing EFT/Burst immunity test system [Model: AXOS 5 EFT/Burst, Make: Haefely] from ILAC/APLAC/any NABL accredited laboratories as per ISO/IEC 17025: 2017. The calibration results shall comply with the specifications as per IEC 61000-4-4: 2012. The calibration certificate shall be in favour of CPRI, Bengaluru. Calibration of existing EFT/Burst immunity test system [Model: AXOS 5 EFT/Burst, Make: Haefely] will be carried out by CPRI				
6.0	Accessories: All required accessories, adapters for pulse verification at CDN output, interconnection EFT/Burst cable, power cables etc for integrating the quoted Three phase Coupling Decoupling Network (CDN) with the existing EFT/Burst immunity test system [Model: AXOS 5 EFT/Burst, Make: Haefely] shall be provided. The length of the power cables (5 Nos. for L1, L2, L3, N, PE) of 6 meters for connecting from mains supply to input ports of Three phase CDN with suitable connectors/ adapters shall be provided. The length of the power cables (5 Nos. of each set for L1, L2, L3, N, PE) of 0.5 meter for table top EUT and 1 meter for floor standing EUT for connection from CDN EUT port to EUT ports with suitable connectors/adapters shall be provided. The quoted power cables shall be suitable for 3x440V(P-P) AC, 600V DC & 63A AC/DC continuous. Both hard and soft copies of Safety manual, Installation manual and Operating manual shall be supplied.				
7.0	Training: One day Training to CPRI Officers after installation and commissioning shall be provided at CPRI, Bengaluru.				
8.0	Warranty: The supplied equipment shall have a warranty period of one year from the date of successful installation and commissioning.				

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, brochures, 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 accredited agencies/facilites shall be submitted wherever applicable.

3) CPRI reserves the right to conduct "predispatch 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/machinery for the PDI shall be communicated in writing at lease 70 days in advance.