

PROCUREMENT PROCEDURE OF CPRI (NON WORKS)					
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Section : Formats				Documents : PPM	
Topic : Technical Specifications format				FORMAT NO.:CPRI/PUR/C/TBID/GTP	
Section IV T -Technical Specification					
CENTRAL POWER RESEARCH INSTITUTE, BENGALURU/BHOPAL Web: www.cpri.in, www.tenderwizard.com/CPRI					
Tender Enquiry No : CPRI/BLR21MUAD50S777					
Description of the Equipment/Goods/Services : Supply of "Loop Sensor".					
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, Installation and Commissioning of "Loop Sensor".				
2.0	Place where equipment to be supplied: CPRI, Bengaluru.				
3.0	The quoted "Loop Sensor" shall comply with all the requirements mentioned in MIL-STD-461F:2007 for carrying out Radiated disturbance test for keyless entry as per Annex B of IS 17017 (Part 21/Sec 2) : 2019 IEC 61851-21-2 : 2018. The purpose of this test is to simulate the effects of the radiated magnetic fields on a keyless entry system for a vehicle. The test method is based on MIL-STD-461F:2007 however is modified as follows: • increase the measuring distance from 7 cm to 1 m; • use a fixed height of measurement; • use a fixed measurement bandwidth of 200 Hz across the whole frequency range of measurement. The Loop Sensor shall be locatable as defined in Figure B.1 (copy enclosed for reference). The test procedure shall be as per MIL-STD-461F:2007 and Loop sensor for the measuring transducer as mentioned in MIL-STD-461E:2007				
4.0	Technical specification of Loop Sensor and accessories:				
4.1	Loop Sensor :				
4.1.1	The quoted Loop sensor shall comply with all the requirements mentioned in MIL-STD-461F:2007				
4.1.2	Test Frequency range: 2 kHz to 185 kHz				
4.1.3	Diameter: 13.3 cm				
4.1.4	Number of turns: 36				
4.1.5	Wire: DC resistance between 5 and 10 ohms				
4.1.6	Shielding: Electrostatic				
4.1.7	Correction factor: The quoted Loop sensor shall be supplied with manufacturer's data for corection factors to convert measurement receiver readings to decibels above one picotesla (dBpT) as given below: The measured value is calculated as follows: $R = L + F - 2,0$ where R is the measurement result (dBuA/m); L is the measuring receiver level (dBuV); F is the loop correction factor (dB/GT)				
4.1.8	The quoted cable and accessories shall be suitable for connection from Loop sensor to EMI receiver (R&S make Model ESU26).				
4.2	Accessories: (1) Tripod stand for mounting the quoted Loop Sensor: The quoted Tripod stand shall be used to position, support and stabilise the quoted Loop sensor with adjustable height from 1 to 1.5 meters. Material used: Non magnetic material and light weight and durable legs. Tripod Legs: Reversible legs with rubber feet. Each leg shall be adjustable independently of each other and provision shall be provided for locking at a suitable angle. (2) Azimuth and Elevation Head: The quoted Azimuth and Elevation Head shall be suitable for quoted Loop sensor. The quoted Azimuth and Elevation Head shall be of non magnetic material and used to assist the test engineer in pointing the mounted Loop sensor towards the EUT.				
5.0	Calibration: Calibration Certificate shall be submitted for the quoted Loop Sensor covering the test frequency range of 1kHz to 200kHz. 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. The calibration certificate shall be in favour of CPRI, Bengaluru.				
6.0	Accessories: (1) All required accessories for carrying out Radiated disturbance test shall have been included in the quote. (2) 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 atleast 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/facilities 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.					