

PROCUREMENT PROCEDURE OF CPRI (NON WORKS)

Revision No. : 04
 Dt of Revision : 27.08.2020
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 Section : Formats
 Topic : Technical Specifications format

Issue No : 2
 Issue Dt. : 30.06.2003
 Issued by : P A
 Documents : PPM

FORMAT NO.:CPRI/PUR/L - TBID/GTP

Section IV T -Technical Specification

CENTRAL POWER RESEARCH INSTITUTE, BENGALURU

Tender Enquiry No : CPRI BLR21MUAD79S854

Description of the Equipment/Goods/Services : Procurement of Protocol Analyzer stand - alone tool for offline analysis of DLMS traffic as per IS 15959 series with two years warranty period. During the warranty period, the software support including interpretation of traffic analysed to be provided through email/phone as & when required

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

2) All 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	Protocol Analyzer tool shall be a standalone tool for offline analysis of DLMS traffic.	3 Licences			
2	Protocol analyzer shall support any meter traffic conforming to IEC 65056 DLMS/COSEM specification as per IS 15959 series	-			
3	Protocol analyzer shall be provided as application software installable on computers with Windows operating system (windows 7 & above).	-			
4	There shall be a user friendly Graphical User Interface for Protocol Analyzer	-			
5	Protocol analyzer shall give option for the user to search folders in the host computer and select and load traffic file that need to be analyzed	-			

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			Detials of guaranteed technical parameters offered by the bidder	Guaranteed Technical Particulars (GTP)	Deviations from GTP
6	Protocol analyzer shall be able to analyze DLMS traffic which uses the following communication profiles of DLMS for both one byte & four byte:	-			
6.1	The 3-layer, connection-oriented, HDLC based communication profile	-			
6.2	METERING HDLC protocol using protocol mode E for direct local data exchange	-			
6.3	The TCP-UDP/IP based communication profiles	-			
7	Protocol analyzer shall give option for user to save the output to user defined folder in host computer	-			
8	The tool shall dissect the packets in traffic and show the individual protocol field values and protocol specific errors. The tool should analyze the packets in three levels.	-			
8.1	Communication profile – individual frame field values with comments shall be provided	-			
8.2	Application layer – individual APDU field values with comments shall be provided	-			

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8.3	COSEM Objects – object values shall be shown after decoding with comments	-			
9	Protocol analyzer shall support following DLMS features as minimum requirement:	-			
9.1	Conformance Services: Get, Set, Action, Get With block transfer, Set With block transfer, Selective Access, Data Notification, General block transfer, General Protection & Event notification	-			
9.2	Application context: Logical name without ciphering & Logical name with ciphering	-			
9.3	Sign on security: a) No authentication (mechanism ID = 0) b) Low level security (mechanism ID = 1) c) High level security (mechanism ID = 2(with AES-128-ECB) d) High level security (mechanism ID = 5(with AES-GMAC)	-			

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			Detials of guaranteed technical parameters offered by the bidder	Guaranteed Technical Particulars (GTP)	Deviations from GTP
9.4	Data transport security: Security suite (0) - AES-GCM-128 authenticated encryption and AES-128 key wrap	-			
9.5	Interface classes: Interface classes shall support any meter traffic conforming to IEC 65056 DLMS/COSEM specification asper IS 15959 series	-			
10	Deliverables: 1) DLMS protocol analyzer tool installation setup with user manual along with CD containing DLMS Protocol Analyzer tool. 2) Manual for the individual protocol field values and protocol specific errors.	-			
11	Time Line: Final delivery within 3 months from the date of issue of Purchase order	-			

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.