

ANNEXURE I

Supply of Source Code Libraries for DLMS COSEM protocol

S No			Vendor's Acceptance / Deviation
1.0	Minimum requirements:		
	1.1	A portable DLMS COSEM source code product for embedding the IEC 62056 protocols in an Intelligent Electronic Device (RTU).	
	1.2	Should be easily portable in QNX 6.5 RTOS running on x86 hardware platform supporting an ANSI C/C++ compiler.	
	1.3	Should support all the client and server functions needed to implement DLMS COSEM or its equivalent Standards: IEC62056-61, IEC62056-62, IEC62056-21, IEC62056-42, IEC62056-46, IEC62056-47, and IEC62056-53.	
	1.4	Should support all featured services in the DLMS conformance block, all interface classes and their instantiation, complete range of OBIS codes related to interface classes which can be configured into the system.	
	1.5	The protocol stack should support both Short Name (SN) and Logical-Name (LN) referencing with no ciphering.	
	1.6	Support for NO_SECURITY, LOW_LEVEL_SECURITY and HIGH_LEVEL_SECURITY Authentication mechanisms.	
	1.7	Support for following Communication profiles: 1. High-Level Data Link Control (HDLC) 2. TCP-UDP/IP 3. S-FSK PLC.	
	1.8	DLMS COSEM Indian Companion Specification Support.	
2.0	Deliverables The deliverables will include:		
	2.1	Source code Libraries of DLMS Server & Client as per the latest IEC62056 standard.	
	2.2	Design documentation and user manual of Source code Libraries.	
3.0	General		
	3.1	The technical offer should contain the technical documentation of Source code Libraries.	
	3.2	Vendor shall install the delivered software libraries at BHEL R&D, on the target hardware platform with QNX RTOS provided by BHEL, which shall be successfully compiled and built to demonstrate an example application.	
	3.3	Maintenance and updates during Warranty for a period of one year after successful installation.	
4.0	Delivery: Within 4 weeks from the date of Purchase Order.		