

Amendment No. 1

Ref: NIT No. RECPDCL/TECH/AMI-CED/e-Tender/2017-18/5325 Dated: 16.12.2017

S. No.	Page No. / Clause No.	Technical Specifications as per RFP	Amended Clause
1	Page 13, Section IV, Clause 17, C.Scope of work	The bidder shall confirm that offered RF canopy solution and associated network elements including NIC should be tunable over a frequency range from kHz to GHz so that in future if allocated bandwidth is increased or if new frequency band is allocated to Power Utilities by statutory authorities, then the offered communication hardware which will be installed at site or inside the Smart meter in the form of a NIC, would not become obsolete and shall be capable to interoperate with any new environment.	The offered RF Canopy solution should be in the frequency range of 865-867 MHz
2	Page 21, Section IV, Scope, Communication Canopy, Functional Specification	27.Network Equipment Battery Replacement: If it is necessary to replace network equipment batteries within the required operating and extended operating life of the system, the battery shall have a life expectancy of at least 10 years. The AMI supplier shall provide detailed estimates of the number of estimated replacements along with diagnostics and battery replacement instructions and estimated labour and equipment costs (time and materials) required to perform these replacements. Replacement of any battery will be under FMS.	27.Network Equipment Battery Replacement: If it is necessary to replace network equipment batteries within the life of the system, the battery shall have a life of at least 10 years. The AMI supplier shall provide detailed estimates of the number of estimated replacements along with diagnostics and battery replacement instructions and estimated labour and equipment costs (time and materials) required to perform these replacements. Replacement of any battery will be under FMS.
3	Page No. 13, SECTION IV SCOPE OF WORK Clause No. 18	Interoperability for AMI shall be achieved through incorporation of the communication modules (NICs) of the technology service provider inside the Smart meters of various makes of Smart meters, short listed for this purpose as of now & in future also for next 15 years.	Interoperability for AMI shall be achieved through incorporation of the communication modules (NICs) of the technology service provider inside the Smart meters of various makes of Smart meters, short listed for this purpose as of now & in future also for next 10 years from date of award of contract.If CED wish to procure NIC card in future upto 10 yrs from the date of award of contract then bidder will extend their full support in integration with other OEM meters/field devices as the case may be and vice-versa during project engagement period incl. FMS. Bidder should have ETA approval of their devices from Competent Authority
4	Page No. 14, SECTION IV SCOPE OF WORK Clause No. 25	The offered solution including (H/w, s/w, OS, licenses & others) shall have life cycle of 7 years from post go Live.	The offered IT hardware & Software solution (H/W, S/W, OS, licenses & others) shall have life cycle of 7 years post go Live. Utility may choose extended support from OEM/bidder after end of project engagement period on mutual terms and conditions
5	Page No. 123, F. General scope of work, Clause No. 2	Selected bidder to provide 12 months "Warranty support" after Go-Live of project area and 36 months "Post implementation support" after the end of warranty period.	Meter guarantee period shall be 60 months from date of Go-live of project. For entire project/solution kindly refer respective clauses in RFP for further details.
6	Page 109, E. Service Level Agreement (SLA)/1. ADVANCE METERING INFRASTRUCTURE SLA/A. Network Performance/Table 39	1. Remote Load Control command (peak demand)-Maximum time to control any load-Group of Meters-99% in 1 minute	1. Remote Load Control command (peak demand)-Maximum time to control any load-Group of Meters a. 90 % Meters within 5 mins b.95% Meters within 30 mins c.98% Meters within 2 Hrs.

7	Page no 14, SECTION IV C. Scope of work Clause 34	CED reserve the right to review integration mechanism along with prices of NIC card With Smart meters after every 2 years.	Amended in the Form III.
8	Page no 14, SECTION IV C. Scope of work Clause 35	The NIC card /communication module ceiling price shall be revised after every 2 years period subject to market price	
9	Page no 14, SECTION IV C. Scope of work Clause 36	The NIC card /communication module price will be mutually decided between meter OEM and bidder subject to ceiling price offered to CED by the bidder	
10	Single phase – 2.1.4.26 Page no . 25, Three phase 20- 100A – 2.2.4.26 Page no . 50, Three phase DT meter- 4.28 Page no. 78	Sleep Mode Meter shall not go in sleep mode. Display should not be 'off' at any point of time	Meter shall not go in sleep mode. In power off condition display can be enabled by pressing push button.
11	Single phase – 2.1.4.32 Page no . 24, Three phase DT meter- 4.34 Page no. 73	Communication module of meter for AMI As per clause no 1.2 (b) of IS 16444, Meter should have provision of communication module compatible with both the variant mentioned in IS 16444 PART-1. This module should be able to get connected to the NAN / WAN network of service provider (RF/ 4G) of CED, if any existing.	Communication module of meter for AMI- This module should be able to get connected to the NAN / WAN network of service provider (RF/ 3G/4G etc) of CED.
12	Page No. 14, SECTION IV SCOPE OF WORK Clause No. 23	23. The bidder shall guarantee for providing service & expansion support in the aforesaid area (at least for backward compatibility) for at least 15 years.	23. The bidder shall guarantee for providing expansion support in the aforesaid area (at least for backward compatibility) for at least 10 years. The bidder shall extend their full support in the aforesaid area (at least for backward compatibility) for at least 10 years on agreed mutual terms and conditions after end of FMS period
13	Single phase – 2.1.4.37-d Page no . 27, Three phase 20- 100A – 2.2.5-d Page no . 51	Optical Communication port - The complete data shall be downloaded within 2 minutes.	The complete data shall be downloaded within 5 minutes.
14	page no.112, Clause B. Read Performance & Penalty clause: Table 37	Note: Replacement of faulty NIC card in meters will be in scope of bidder, however installation of meter will not be in scope of bidder.	Note: Replacement of faulty NIC card in meters will be in scope of bidder.
15	page no.125, Clause 31. INSTALLATION & IMPLEMENTATION	i The bidder shall be responsible for installation of all identified hardware and associated equipments at Data Centre, DR centre, Control Centre, Substations, DT locations, HT and selected LT Consumers and Communication network covered under the specification.	i The bidder shall be responsible for installation of all identified hardware and associated equipments at Data Centre, Control Centre, Substations, DT locations, HT and selected LT Consumers and Communication network covered under the specification. However if DR is rolled out during project engagement period, bidder will extend their full support without any cost implication.
16	Page No. 14, Section IV, C. Scope of work, Clause 32	Offered solution to comply with the existing IS standards for applications as mentioned in RFP & its Feasibility to change / modify the offered solution based on changes happened in standards in future.	Offered solution to comply with the existing IS standards for applications as mentioned in RFP & its Feasibility to change / modify the offered solution based on changes happened in standards in future also till project engagement period & FMS.
17	Page no. 16, Section IV, Clause No. 45 e)	If the proposed solution operates in licensed frequency band, bidder to attain the required license on behalf of CED for entire geographical area of CED for 15 years. Cost of procuring license and license fee for next 15 years will be in the scope of bidder	If solution is proposed in licensed band; bidder need to own total cost of solution for project lifecycle of 10 yrs. Also bidder need to ensure necessary regulatory approvals within stipulated timelines
18		HT meter Specifications are not given in RFP	It should be as per IS 16444 Part 2 and IS 15959 part 2 & part 3 with applicable latest amendments.
19		DT meter Specifications are not given in RFP	

20	Page No. 136, SECTION-V SPECIAL CONDITIONS OF CONTRACT, Clause 10	RECPDCL reserves the right to increase or decrease the RC quantity (on same rate and terms and conditions) by another $\pm 20\%$ if required.	RECPDCL reserves the right to increase or decrease the quantity (on same rate and terms and conditions) by another $\pm 20\%$ if required
20	Page No. 24, 2.1.4.13 point b)	Between each current (or voltage circuit) & each and every other circuit.: 50 M Ohm	Deleted
21	Page no. 26, 2.1.4.31; and Page No. 50, 2.2.4.31; Page no. 78, S.No. 4.33 Table 28	Calibration: Meters shall be software calibrated at factory and modifications in calibration shall not be possible at site by any means. However, parameters like RTC, TOD tariff, DIP (billing & load survey), billing date, display parameters etc. shall be reconfigure through CMRI and remotely over the air (OTA).	Meters shall be software calibrated at factory and modifications in calibration shall not be possible at site by any means. However, parameters like RTC, TOD tariff, DIP (billing & load survey), billing date, display parameters etc. shall be reconfigure through CMRI/HHD and remotely over the air (OTA).
22	Page No. 26, 2.1.4.36 Table 4, S.No. 1; and Page No. 51, 2.2.4.36 Table No. 15, S.No. 1	Operating Voltage range of relay:-130 V to 440V	Operating Voltage range of relay:-144 V to 440V
23	Page no. 26-27, 2.1.4.37 Communication Capabilities and Software Feasibilities, Clause e	The bidder shall supply software required for local (CMRI) & remote (AMI) connectivity including required training to use the software free of cost. Bidder shall provide the communication protocol / APIs for communication with meter through local (CMRI) / remote (AMI) as and when required by CED free of cost during life time of meter. The bidder should provide DLMS compliance for Communication with the meter at Optical port and at HES.	Bidder to provide compatible software for data downloading of meter through CMRI/HHD
24	Page No. 30, 2.1.4.40 Abnormal Tamper Conditions - point c)	Tamper event logging along with values of intensity & snapshot of occurrences & restorations Table 5 - Tamper Event Details for Single Phase Smart Meters.	Tamper event logging along with values & snapshot of occurrences & restorations Table 5 - Tamper Event Details for Single Phase Smart Meters.
25	Page no. 39-40, Name Plate and Marking, clause u	(u) Communication Technology is IHD supported (with carrier frequency)	Deleted
26	Page No. 38, 2.1.15 Table 8 Auto scroll mode; and 2.1.16 Table 9 Push Button Scroll mode	- MD resolution: 3+3 - Voltage resolution: 3+3	MD resolution: 2+2 - Voltage resolution: 3+2
27	Page No. 36, 2.1.11.2 Instantaneous Parameters Table 7	Instantaneous parameters -cumulative power off duration -voltage resolution 3+3 -MRI/PC date & time	Instantaneous parameters -cumulative power off duration --- Deleted -voltage resolution 3+2 - MRI/PC date & time - read as "Last read date & Time" - vector/phasor diagram -- Deleted
28	Page No. 31, Table 5, Tamper Event Details for 1 Phase smart meters	Single wire restoration $v > 190V$	Load switch to open in case of Single wire operation.
29	Page No. 51, 2.2.4.36 Table 15 - Disconnecter Specifications	6. Utilization category:- UC2 or better	6. Utilization category:- UC3 or better

30	Page No. 58, 2.2.11 Terminals, Terminal Block, Clause f)	The manner of fixing the conductors to the terminals shall ensure adequate and durable contact such that there is no risk of loosening or undue heating. Terminals shall be preferably with Allen screw with at least 8 mm dia for better contact area. Terminal & screw should not be damaged during regular opening and tightening	The manner of fixing the conductors to the terminals shall ensure adequate and durable contact such that there is no risk of loosening or undue heating. Terminals shall be preferably with Allen screw with at least 6 mm dia for better contact area. Terminal & screw should not be damaged during regular opening and tightening.
31	Page No. 59-60, 2.2.16.2, Instantaneous Parameters , Table 18	Instantaneous Parameter:- MRI/PC date & Time	Instantaneous Parameter:- MRI/PC date & Time --- to be read as " Last read date & time"
32	Page No. 67, 2.2.25 Name Plate and Marking, S.No. 21; Page No. 90, 2.3.18 Name Plate and Marking, S.No. xx	Communication Technology is IHD supported (with carrier frequency)	Deleted
33	Page no. 95, Guaranteed Technical Parameters, S.No. 15 Table 34	DI/DO as per CI 4.37.6	Deleted
34	SECTION-VI ELIGIBILITY CRITERIA A. QR for Bidder (Any OEM or System Integrator) – S.No. 6-Page no. 141; B. QR for AMI Software(HES, MDM) Provider- S.no. -3, Page No. 143; C. QR for Meter Manufacturer (Meter OEM including Smart meter OEM)- S.No. 3 page No. 144; D. QR for Network Bandwidth Service Provider- S.No. 4 page No. 146	Experience under Column Evaluation/Documents Required Individual Client's LOA/PO/WO along with completion certificate issued by client/complete payment reflecting completion of work/ return of PBG after completion of work during last 7 years ending last day of month previous to the one in which bids are invited.	Individual Client's LOA/PO/WO/ Contract Agreement along with completion certificate/ Go-Live Certificate/ Certificate Issued by Client indicating successful commissioning and other details as per the eligibility criteria /complete payment reflecting completion of work/ return of PBG after completion of work during last 7 years ending last day of month previous to the one in which bids are invited. Note: In case the bidder is unable to submit the LoA/PO/WO due to Non-Disclosure Agreement signed between Client and Bidder, Self-Declaration to be submitted regarding the same on company's letter head duly signed by authorized signatory signing the bid.

35	Page no. 83, 2.3.7.1 General, Table 30, S.No. 7; Page No. 57, 2.2.9 General Construction Requirement, Table 7 S.No. 7	Battery - Lithium with guaranteed life of 15 years	Battery - Lithium with guaranteed life of 10 years
36	Clause No. 4 Experience at Table 47 - Technical Marks Evaluation , Page No. 151 AND Annexure F- Self – Assessment of Technical Marks, Page No. 178-179	<p>Total project completed cumulatively with >= 45000 meters installation during last 7 years ending last day of month previous to the one in which bids are invited (however at-least one project should cover installation of at-least 24000 meters) - Marks 30</p> <p>Total project completed cumulatively with >=35000 and < 45000 meters installation, during last 7 years ending last day of month previous to the one in which bids are invited (however at-least one project should cover installation of at-least 24000 meters) -- Marks 25</p> <p>01 No. of project completed with > =24,000 and < 35000 meters installation, during last 7 years ending last day of month previous to the one in which bids are invited --- Marks 20</p> <p>02 Nos. of projects completed, each with >=15,000 and < 24000 meters installation, during last 7 years ending last day of month previous to the one in which bids are invited - Marks 15</p> <p>03 Nos. of projects completed, each with >=12,000 and < 15000 meters installation, during last 7 years ending last day of month previous to the one in which bids are invited. -- Marks 10</p>	<p>No Change</p> <p>01 No. of project completed with > =24,000 and < 35000 meters installation or of value >=Rs. 19.51 Crores , during last 7 years ending last day of month previous to the one in which bids are invited ---Marks 20</p> <p>02 Nos. of projects completed, each with >=15,000 and < 24000 meters installation or of value >=Rs. 12.19 Crores and <19.51 Crores , during last 7 years ending last day of month previous to the one in which bids are invited ---Marks 15</p> <p>03 Nos. of projects completed, each with >=12,000 and < 15000 meters installation or of value >=Rs. 9.75 Crores and <12.19 Crores , during last 7 years ending last day of month previous to the one in which bids are invited.--Marks 10</p>

Note: Price bid format (Form -III) has been revised. Bidder to quote price as per revised price bid format, Further all agencies who had submitted their bids before this amendment are requested to resubmit their Bids including Price Bid.

This is issue with the approval of Competent Authority

Please contact for further queries (if any):

Phone: 0120-4383783/759

Email: ced.projects@recpdcl.in