Pre-Bid Queries for NIT No. RECPDCL/TECH/AMI-CED/e-Tender/2017-18/5325 Dated: 16.12.2017
Prebid Meeting on 20.12.2017

S. No.	Query received on	Vendor	Page No. / Clause No.	Technical Specifications as per RFP	Queries / Modifications / Changes Suggested	Remarks	Remarks Type
1	20-Dec-17	Cyanconnode	Page 12, scope of work	4. Development of communication interface module for other field equipment's including Smart meter data flows from meter to MDMS as per frequency defined in SLA.	Kindly confirm the other field devices to interface with the proposed communication network.	Field devices i.e. Smart Energy Meters, RF Compatible HHU/CMRI, DCU etc.	Clarification
2	20-Dec-17	Cyanconnode	Page 13, scope of work	16. Bidder to also indicate timeframe for developing solution with meter and other application equipment's / OEM's. As per CED, the desired timeline shall not exceed 4 months	We understand it is only for meter integration as per IS 16444. Please confirm.	Bidder to execute the project within project delivery timeline i.e. 12 months and Bidder to Supply, implement and integrate all equipments and system supplied and if during implementation/FMS stage if any new IT system is implemented by CED, Bidder to extend support for integration of their system with CED. For eg new billing system, SCADA, DTMS etc.	Clarification
3	20-Dec-17	Cyanconnode	Page 13, scope of work	17. 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	Exisitng RF NIC will be as per available ISM license free frequency bandwidth only. Kindly amend/delete this clause.	Accepted The offered RF Canopy solution should be in the frequency range of 865-867 MHz	Amend
4	20-Dec-17	Cyanconnode	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.	Battery can have max 7 years life warranty with extended life up to 10 years.	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.	Amend
5	20-Dec-17	Cyanconnode	Page 92, 3. Head End System	3.7.9. Revenue Integrity Monitoring The head end system shall support revenue integrity monitoring across the entire meter/customer population including, but not limited to, meter tamper, energy diversion, site diagnostics, and load diagnostics.	Kindly explain the meaning of Revenue Integrity Monitoring.	Already explained under 3.7.9	Clarification
6	20-Dec-17	Cyanconnode	Page 100, 3. Head End System	3.7.14. Pre-Payment/Prepaid Functions The head end system should support pre-payment capabilities.	Prepayment function shall be managed via MDMS system, price signals can be sent via HES communication network to meter/consumer.	HES Shall support the seamless flow of Data from End point i.e from meter to MDMS and vice vesra for prepayment funcitions.	Clarification
7	20-Dec-17	Cyanconnode	Page 100 , 3. Head End System	3.7.15. The HES system should comply with the communication protocol as defined in IS standard 16444 and IS 15959 (for data exchange for electricity meter reading tariff and load control) including latest amendments.	We understand communication network as per IS16444 and IEEE 802.15.4g and Data exchange protocol as per IS15959-Part 1 and Part2. Please confirm.	Bidder should support Latest applicable BIS standard and any further ammendments	Clarification
8	20-Dec-17	Cyanconnode	Page 100, 3. Head End System	3.7.18. The HES shall be flexible and on open standard so that it can communicate with third party communication devices. The HES shall support web based multiple data base support software and also support standard integration Multi-also support standard integration Multi-speak and CIM IEC 61968 for third party MDMS.	We propose it shall be written as – ''..support standard integration Multi-also support standard integration XML/Web Services/Any open service interface / Multi-speak and CIM IEC 61968 for third party MDMS	No Change	Clarification
9	20-Dec-17	Cyanconnode	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	Individual response time shall be not less than 1 minute 2. Within 30 minutes-95% 3. Within 2 hours-98% Kindly accept.	1. Remote Load Control command (peak demand)-Maximum time to control any load-Group of Meters 1. 90 % Meters within 5 mins 2.95% Meters within 30 mins 3.98% Metesr within 2 Hrs.	Amend
10	20-Dec-17	Cyanconnode	Page 109, E. Service Level Agreement (SLA)/1. ADVANCE METERING INFRASTRUCTURE SLA/A. Network Performance/Table 39	2. Meter loss of supply notification (Last Gasp)-Maximum time to Distribution Management System- 30 seconds for individual meter, 5 minutes for 90% meters, 30 minutes for 99% meters	SLA response time depends on back-haul network, availability of power source to network devices hence SLA of this scale is subject to SLA disclaimer of network comm supplier.	No change	Clarification
11	20-Dec-17	Cyanconnode	Page 109, E. Service Level Agreement (SLA)/1. ADVANCE METERING INFRASTRUCTURE SLA/A. Network Performance/Table 39	Individual meter reading, Disconnect/ Reconnect command and Event Log reporting-On demand read requirement – maximum allowable time within 30 second for individual meter	On Demand read, configuration, disconnection shall not be less than 3-5 minutes. Please amend the clause suitably.	No change	Clarification
12	20-Dec-17	Cyanconnode	Page 110, E. Service Level Agreement (SLA)/1. ADVANCE METERING INFRASTRUCTURE SLA/A. Network Performance/Table 39	Unscheduled Data - On demand Reads / Requests- Total Population (assume BROADCAST max 2000 per collector / DCU)-<10 minutes for 85% of endpoints	No of nodes per gateway/Router shall be flexible and allowed to architecture to provide best possible way.	No change	Clarification

13	20-Dec-17	Cyanconnode	Page 110, E. Service Level Agreement (SLA)/1. ADVANCE METERING INFRASTRUCTURE SLA/A. Network Performance/Table 39	Unscheduled Data - Restoration Alarm Msg.- Single endpoint <30 seconds with 85% of endpoints reporting Single AMI Meter outage: 95% of messages will be delivered at HES within than 30 seconds and rest of 4% within 2 minutes (considering 99% availability of meters).	We request you to change it to < 1 minute instead of <30Sec. Kindly amend.	No change	Clarification
14	20-Dec-17	Cyanconnode	Page 111, E. Service Level Agreement (SLA)/1. ADVANCE METERING INFRASTRUCTURE SLA/A. Network Performance/Table 39	up to 1000 <60 seconds with more than 85% of endpoints reporting.	Shall be written as <5 minute instead of <60Sec	No change	Clarification
15	20-Dec-17	Cyanconnode	Page 111, E. Service Level Agreement (SLA)/1. ADVANCE METERING INFRASTRUCTURE SLA/A. Network Performance/Table 39	up to 10,000 < 120 seconds with more than 80% of population reporting.	Shall be written as Less than 30 minute	No change	Clarification
16	20-Dec-17	Cyanconnode	Page 111, E. Service Level Agreement (SLA)/1. ADVANCE METERING INFRASTRUCTURE SLA/A. Network Performance/Table 39	Total Population (assume max 2400 per collector / DCU) < 120 seconds with more than 80% of population reporting.	Shall be written as < 3-5 hours instead of 120 seconds. Also No of nodes per gateway/Router shall be flexible and allowed to architecture to provide best possible way.	No change	Clarification
17	20-Dec-17	Cyanconnode	Page 111, E. Service Level Agreement (SLA)/1. ADVANCE METERING INFRASTRUCTURE SLA/A. Network Performance/Table 39	Reconfiguration of endpoint- RTC, Rest Date etc. Single endpoint <30 seconds with 85% of endpoints reporting	Shall be written as < 1 minute for reconfiguration of single endpoint	No change	Clarification
18	20-Dec-17	Cyanconnode	Page 111, E. Service Level Agreement (SLA)/1. ADVANCE METERING INFRASTRUCTURE SLA/A. Network Performance/Table 39	up to 10,000 <10 minutes with 80% of endpoints reporting	Shall be written as < 1-3 hours for reconfiguration of single endpoint	No change	Clarification
19	20-Dec-17	Cyanconnode	Page 111, E. Service Level Agreement (SLA)/1. ADVANCE METERING INFRASTRUCTURE SLA/A. Network Performance/Table 39	Total Population (assume max 2400 per collector / DCU) <10 mins with 80% of endpoints reporting	Shall be written as < 3-5 hours for reconfiguration of single endpoint.Also No of nodes per gateway/Router shall be flexible and allowed to architecture to provide best possible way.	No change	Clarification
20	20-Dec-17	Cyanconnode	Page 111, E. Service Level Agreement (SLA)/1. ADVANCE METERING INFRASTRUCTURE SLA/A. Network Performance/Table 39	Firmware Upgrade of meter / device- Single endpoint <300 seconds with 85% of endpoints reporting	Shall be written as < 10 minute for firmware upgrade of single endpoint	No change	Clarification
21	20-Dec-17	Analogics	A. QR for Bidder (Any OEM or System Integrator)	a. Successfully executed 01 AMI/AMR project covering implementation of AMI/AMR Meters along with RF module / modem, HES/MDMS/MDAS, RF Mesh/GPRS/3G/4G services of Value ₹ 19.51 Crores or for 24000 meters.	a. Successfully executed 01 AMI/AMR project covering implementation of AMI/AMR Meters along with RF module / modem, HES/MDMS/MDAS, RF Mesh/GPRS/3G/4G services of Value ₹ 19.51 Crores or for 20000 meters.	No change	Clarification
22	20-Dec-17	Analogics	B. QR for AMI Software(HES, MDM) Provider	a. Successfully executed one AMI/AMR projects involving with AMI Software application of 24000 meter or of Value Rs. 19.51 Crores.	a. Successfully executed one AMI/AMR projects involving with AMI Software application of 20000 meter or of Value Rs. 19.51 Crores.	No change	Clarification
23	20-Dec-17	Analogics	D. QR for Network Bandwidth Service Provider	Single multi-location WAN Projects (installation, integration, maintenance & management) involving GPRS, 3G, 4G, Leased Lines, ISDN, VSAT, RF, DSL, VPN /MPLS or Fiber Optic or a combination of these technologies for a customer having a minimum of 10 WAN locations of value Rs.19.51 Crores.	Single multi-location WAN Projects (installation, integration, maintenance & management) involving GPRS, 3G, 4G, Leased Lines, ISDN, VSAT, RF, DSL, VPN /MPLS or Fiber Optic or a combination of these technologies for a customer having a minimum of 05 WAN locations of value Rs.19.51 Crores.	No change	Clarification
24	20-Dec-17	Analogics	Table 47: Technical Marks Evaluation	The minimum average annual turnover of the bidder shall be a minimum of ₹ 17.10 Crores during the last 3 years ending 31st Mar, 2017 of the previous financial year.	The minimum average annual turnover of the bidder shall be a minimum of ₹ 17.10 Crores during the last 3 years ending 31st Mar, 2017 of the previous financial year. For score 10 please amend as 90 Cr	No change	Clarification
25	20-Dec-17	Analogics	Table 47: Technical Marks Evaluation	MDM global presence in last 5 years in terms of number of consumers in power, gas and water sector	MDM global presence in last 5 years in terms of number of consumers in power, gas and water sector. For score 10 please amend as >200K	No change	Clarification

26	20-Dec-17	Analogics	Table 47: Technical Marks Evaluation	The Bidder must have successfully executed & implemented AMR/AMI projects in an Indian/Global Power Distribution Utility during last 7 years ending last day of month previous to the one in which bids are invited, covering implementation of minimum 12,000 nos. of Meters with required hardware, software and other associated accessories 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 atleast 24000 meters)	The Bidder must have successfully executed & implemented AMR/AMI projects in an Indian/Global Power Distribution Utility during last 7 years ending last day of month previous to the one in which bids are invited, covering implementation of minimum 12,000 nos. of Meters with required hardware, software and other associated accessories 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 20000 meters)	No change	Clarification
27	20-Dec-17	Analogics	Table 47: Technical Marks Evaluation	Bidders must score at least 75% in the technical evaluation in order to qualify for the opening of commercial proposal.	QCBC:: Quality Cost Based Selection The method of selection will be QCBS and gives weightage to both quality and cost. The weightage for the technical and commercial score will be 60:40	No change	Clarification
28	20-Dec-17	CMS Computers	Quality Certification	The Bidder should be an ISO 9001:2008/ISO 9001:2015 certified. OR Bidder should have CMMI Level 3 (minimum) certification.	Bidder should have CMMI Level 5 (minimum) certification. Add IS 27001 & IS 20000-1	No change	Clarification
29	20-Dec-17	CMS Computers	A. QR for Bidder (Any OEM or System Integrator) Sr. No. Description Qualification Criteria	The bidder must have successfully executed & implemented AMR/AMI projects (meeting any of the below criteria) in an Indian/Global Power Distribution Utility during last 7 years ending last day of the month previous to the one in which bids are invited should be either of the following:- a. Successfully executed 01 AMI/AMR project covering implementation of AMI/AMR Meters along with RF module / modem, HES/MDMS/MDAS, RF Mesh/GPRS/3G/4G services of Value Rs. 19.51 Crores or for 24000 meters. or b. Successfully executed 02 AMI/AMR project each covering implementation of AMI/AMR Meters along with RF module / modem, HES/MDMS/MDAS, RF Mesh/ GPRS/3G/4G services of value Rs. 12.19 Crores or for 15000 meters OR c. Successfully executed 03 AMI/AMR project each covering implementation of AMI/AMR Meters along with RF module / modem, HES/MDMS/MDAS, RF Mesh/ GPRS/3G/4G services of value Rs. 9.75 Crores or for 12000 meters.	The bidder must have successfully executed & implemented AMR/AMI projects (meeting any of the below criteria) in an Indian/Global Power Distribution Utility during last 7 years ending last day of the month previous to the one in which bids are invited should be either of the following:- a. Successfully executed 01 AMI/AMR project covering implementation of AMI/AMR Meters along with RF module / modem, HES/MDMS/MDAS, RF Mesh/GPRS/3G/4G services of Value Rs. 19.51 Crores or for 2400 meters. or b. Successfully executed 02 AMI/AMR project each covering implementation of AMI/AMR Meters along with RF module / modem, HES/MDMS/MDAS, RF Mesh/ GPRS/3G/4G services of value Rs. 12.19 Crores or for 1500 meters OR c. Successfully executed 03 AMI/AMR project each covering implementation of AMI/AMR Meters along with RF module / modem, HES/MDMS/MDAS, RF Mesh/ GPRS/3G/4G services of value Rs. 9.75 Crores or for 1200 meters. or Should provide design, development billing or collection systems to any power utility covering minimum 100000 consumers base on monthly basis.	No change	Clarification
30	20-Dec-17	Adya Smart Metering	Section 6 | Eligibility Criteria C - QR For Meter Manufacturer | Point No. 3 | EXPERIENCE	OEM should have successfully executed during last 7 years ending last day of month previous to the one in which bids are invited , either of the following: a. Successfully manufactured and supplied for One Project/Work order of Smart meters/AMR meters along with RF/GPRS/3G/ 4G/modems (external/in-built) of Value Rs. 19.51 Crores or of 24000 meters . OR b. Successfully manufactured and supplied for two projects/ work order each of Smart meters/AMR meters along with RF/GPRS/3G/4G/modems (external/in-built) of Value Rs. 12.19 Crores or of 15000 meters OR c. Successfully manufactured and supplied for three projects/ work order each of Smart meters/AMR meters along with RF/GPRS/3G/4G/modems (external/in-built) of Value Rs. 9.75 Crores or of 12000 meters	Please Add (OR) OEM should have supplied at least 1 lakh energy meters to Indian Utilities during last 7 years	No change	Clarification
31	20-Dec-17	Adya Smart Metering	Section 6 | Eligibility Criteria C - QR For Meter Manufacturer | Point No. 1 | Qualification Certification	OEM should have in-house NABL accredited Laboratory as on the previous date of original bid-submission of the tender	Please delete this	No change	Clarification
32	20-Dec-17	Adya Smart Metering	Section 4-Sub Section c-Point -17:	The bidder shall confirm that offered RF canopy solution and associated network elements including NIC should be tuneable over a frequency range from kHz to GHz	Please delete this	The offered RF Canopy solution should be in the frequency range of 865-867 MHz	Amend
33	20-Dec-17	Adya Smart Metering	Section 6 | Eligibility Criteria C - QR For AMI Software	QR for AMI SOFTWARE (HES , MDM) PROVIDER	Please allow HES and MDM providers comibined to meet this PQR with global experience	HES and MDM Software provider, if different, has to meet the QR for each OEM individually.	Clarification

34	20-Dec-17	Adya Smart Metering	QR for bidder	QR for bidder	We are assuming that this QR has to be met by the consortium as a whole	In case of a single bidder,it has to be met individually and in case of a consortium it can be met as a whole by the consortium members. Same has been detailed in Section VI, S.No 1, Definitions.	Clarification
35	20-Dec-17	Adya Smart Metering	QR for bidder	QR for bidder	It is no where mentioned that AMI software provider and meter manufacturer mandatorily be in the consortium. They will be outside the consortium and give MAF to the lead bidder	Yes.But the bidder to ensure that the Consortium and the OEMs should meet their respective eligibility criteria as mentioned in Section VI.	Clarification
36	20-Dec-17	Genus	page 151, Table 47: Technical Marks Evaluation	Single project completed with >= 45,000 meters installation with same project in operation for at least 02 year within last 05 years, during last 07 years--30 Marks Single project completed with >=35000 and <45000 meters installation with same project in operation for at least 02 year within last 05 years, during last 07 years—25 Marks 01 No. of project completed with > =24,000 and <35000 meters installation with same project in operation for at least 01 year within last 05 years, during last 07 years—20 Marks 02 Nos. of projects completed with >=15,000 and <24000 meters installation with any 01 project in operation for at least 01 year within last 05 years, during last 07 years---15 Marks 03 Nos. of projects completed with >=12,000 and <15000 meters installation with any 02 project in operation for at least 01 year withinlast 05 years, during last 07 years—10 Marks	Project completed with >= 20,000 meters installation with same project in operation for at least 01 year within last 05 years, during last 07 years--30 Marks Project completed with >= 15,000 meters installation with same project in operation for at least 01 year within last 05 years, during last 07 years--25 Marks Project completed with >= 10,000 meters installation with same project in operation for at least 01 year within last 05 years, during last 07 years--20 Marks Project completed with >= 8,000 meters installation with same project in operation for at least 01 year within last 05 years, during last 07 years--10 Marks	As per Amendment 1	
37	20-Dec-17	Genus	SECTION-I TENDER INFORMATION Name of the assignment Page no 3	Rate Contract for Supply, Implementation and Maintenance of smart meters and AMI communication system for smart grid pilot project at CED as per NSGM guide lines.	Kindly specify rate contract time period or is it only for this particular Tender?	It is only for this for this particular tender.	Clarification
38	20-Dec-17	Genus	SECTION IV INSTRUCTIONS TO BIDDERS Scope of work (35) Page no 13	CED reserve the right to review integration mechanism along with prices of NIC card With Smart meters after every 2 years.	Please clarify whether communication module cost should quoted separately.	Amended in the financial quote.	Amend
39	20-Dec-17	Genus	Form-III Financial Bid (To be submitted through online mode only) PROFORMA OF SCHEDULE OF RATES Page no 146	The rates are invited for entering into an RC valid for 1 year from the date of issue of contract	As per price schedule it is for 1 Year from the date of issued of PO, confirm please.	Prices are valid for a period of 1 Year from the date of contract award.	Clarification
40	20-Dec-17	Genus	SECTION-I TENDER INFORMATION Name of the assignment	The EMD (Earnest Money Deposit) is to be submitted by all the participating bidders in the form of demand draft.	We understand EMD in the form of BG is also acceptable. Kindly confirm once.	Yes.	Clarification
41	20-Dec-17	Genus	SECTION-III INSTRUCTIONS TO BIDDERS (13)	EMD of Rs. 6,93,800/- in form of DD or Bank Guarantee may be drawn from ….	We understand EMD in the form of BG is also acceptable. Kindly confirm once.	Yes.	Clarification
42	20-Dec-17	Genus	SECTION-I TENDER INFORMATION Name of the assignment	After acceptance of work order and submission of PBG (Performance Bank Guarantee) i.e. 10% of the Contract Value.	We request PBG 5% of contract value as followed by all other Indian DISCOMs. Kindly amend the clause accordingly	No change	Clarification
43	20-Dec-17	Genus	C. Scope of work (15) page no. 12	It would be the responsibility of the bidder to integrate their NIC module with various meter OEM's in India working with CED (like Genus, Secure, L+G, L&T, Elster).	Subject requirement clause is not understood, kindly elaborate the requirement with example.	If CED wish to procure NIC card in future 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	Clarification
44	20-Dec-17	Genus	SECTION-III INSTRUCTIONS TO BIDDERS Cl. no. 16 page no. 12	As per CED, the desired timeline shall not exceed 4 months.	These clauses are contradictory. Considering practical field difficulties we request time lines should be minimum 6 months, request you to extend time lines accordingly	Bidder to execute the project within project delivery timeline i.e. 12 months and Bidder to Supply, implement and integrate all equipments and system supplied and if during implementation/FMS stage if any new IT system is implemented by CED, Bidder to extend support for integration of their system with CED. For eg new billing system, SCADA, DTMS etc.	Clarification
45	20-Dec-17	Genus	F. General scope of work (1) page no. 117	Selected Bidder to establish proposed Advanced Metering Infrastructure System in Project Area i.e. operation subdivision no. 5 of CED within 6 months from the award of contract.		No such clause	Clarification
46	20-Dec-17	Genus	TIMELINES FOR DELIVERY AND INSTALLATION page no. 128	The bidder is expected to complete the Enterprise Wide - implementation of AMI system on all connections within 6 months from the date of award of contract by the RECPDCL.		No such clause	Clarification
47	20-Dec-17	Genus	SECTION IV SCOPE OF WORK (19) page no. 12	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.	Kindly clarify whether Bidder can use their own communication interface / device? We propose our own 6LoWPAN communication technology, please confirm your acceptance.	Accepted provided If CED wish to procure NIC card in future upto 10 yrs from the date of awrd 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 thier devices from Competent Authority. for ETA Pls refer clause 49	Amend

48	20-Dec-17	Genus	SECTION IV SCOPE OF WORK (26) page no. 13	The offered solution including (H/w, s/w, OS, licenses & others) shall have life cycle of 7 years from post go Live.	Licenses are available only for 5 years. Please amend the clause accordingly.	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 mutul terms and conditions	amend
49	20-Dec-17	Genus	SECTION-IV Scope of work 46 .a Page no. 15	Equipment Type Approval (ETA) is to be obtained for communication modules as per Department of Telecom, Government of India requirements.	There is no authority in India to give such approval. Hence this clause should be deleted.	No change. Kindly refer the below link for process to obtain such approval. http://www.wpc.dot.gov.in/Static/EquipmentTypeApproval.html	Clarification
50	20-Dec-17	Genus	Single phase – 2.1.4.4 Page no . 22	Vref = 230 V □ 1 %	Please amend as 230/240V.	No change	Clarification
51	20-Dec-17	Genus	Single phase – 2.1.4.26 Page no . 24	Sleep Mode Meter shall not go in sleep mode. Display should not be 'off' at any point of time	We understand that this clause is for Power ON condition. In power off condition display can be enable by pressing push button. Kindly confirm.	Meter shall not go in sleep mode. In power off condition display can be enabled by pressing push button.	Amend
52	20-Dec-17	Genus	Single phase – 2.1.4.27 Page no . 24	Terminal Specs : Minimum Depth of the terminal holes 25 mm	Minimum Depth of the terminal holes should be 22 mm. Please amend the same.	No such clause	Clarification
53	20-Dec-17	Genus	Single phase – 2.1.4.28 Page no . 24	Display :- Minimum 6+1 digits LCD display In display list on page no. 34—6 digits are required	Kindly confirm 6 or 6+1.	No Change	Clarification
54	20-Dec-17	Genus	Single phase – 2.1.4.32 Page no . 24	Communication module :- This module should be able to get connected to the NAN / WAN network of service provider (RF/ 4G) of CED.	3G is missing hence please add the same.	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.	Amend
55	20-Dec-17	Genus	Single phase – 2.1.4.37-d Page no . 25	Optical Communication port - The complete data shall be downloaded within 2 minutes.	The complete data depends on data size. Hence the time should be minimum 5 minutes. Kindly amend the clause.	Accepted	Amend
56	20-Dec-17	Genus	Single phase – 2.1.4.37-f Page no . 26	Android based or windows based HHU shall be preferred.	Request to add Linux based also.	No Change	Clarification
57	20-Dec-17	Genus	Single phase – 2.1.4.39 Page no . 27	Neutral Disturbance & other tampers	We here by suggest to add below condition in temper events. This will remove most of tamper condition like singe wire operation, input /output side interchange etc. If any of phase & neutral from input side is missing , meter should be in power off condition & both relay should be in disconnected mode .	Pls refer RFP annexure-1	Clarification
58	20-Dec-17	Genus	Single phase – 2.1.4.40 Page no . 29	Table 5 – Tamper events Temperature Rise	Request to delete the same.	Event to be logged after 90 Degree Temp	Clarification
59	20-Dec-17	Genus	Single phase – 2.1.5 Page no . 31	Meters body:- Meter cover shall be transparent with polycarbonate LEXAN 143R/943A or equivalent on prior approval from the CED.	Request to add Opaque/transparent.	No Change	Clarification
60	20-Dec-17	Genus	Single phase – 2.1.6 Page no . 31	Terminal block :- Terminal block should be in single mould with meter body base.	It seems that it is manufactured specific design. No utility in India is asking for such requirement. Kindly amend the same.	Not found such clause	Clarification
61	20-Dec-17	Genus	Single phase – 2.1.11.2 Page no . 33	Instantaneous parameters. Temperature	Request to delete this parameter.	Event to be logged after 90 Degree Temp	Clarification
62	20-Dec-17	Genus	Single phase – 2.1.20.1 Page no . 37	Type test – All tests as defined in IS 16444 Part-1: 2015 /IS 13779:1999 / IS15959 Part-2:2016. .	Type test as per IS16444 are in process. Hence please consider IS13779 for this tender. Please amend the clause accordingly.	No change	Clarification
63	20-Dec-17	Genus	Single phase – 2.1.21 Page no . 38	Type test certificate – The bidder shall furnish the type test certificates of the meter for the tests as mentioned above as per the corresponding standards. All the tests shall be conducted at CPRI as per the relevant standards.	Type test as per IS16444 are in process. Hence please consider IS13779 for this tender. Please also add ERDA lab.	No change	Clarification
64	20-Dec-17	Genus	Three phase 20- 100A – 2.2.4.4 Page no . 45	Vref = 230 V □ 1 %	Please amend as 230/240V.	No change	Clarification
65	20-Dec-17	Genus	Three phase 20- 100A – 2.2.4.26 Page no . 47	Sleep Mode Meter shall not go in sleep mode. Display should not be 'off' at any point of time	We understand that this clause is for Power ON condition. In power off condition display can be enable by pressing push button. Kindly confirm.	Meter shall not go in sleep mode. In power off condition display can be enabled by pressing push button.	Amend
66	20-Dec-17	Genus	Three phase 20- 100A – 2.2.5-d Page no . 48	Optical Communication port - The complete data shall be downloaded within 2 minutes.	The complete data depends on data size. Hence the time should be minimum 5 minutes. Kindly amend the clause.	Accepted	Amend
67	20-Dec-17	Genus	Three phase 20- 100A – 2.2.5-f Page no . 48	Android based or windows based HHU shall be preferred.	Request to add Linux based also.	No change	Clarification
68	20-Dec-17	Genus	Three phase 20- 100A – Page no . 51	Table 16 – Tamper events Temperature Rise	Request to delete the same.	Event to be logged after 90 Degree Temp	Clarification
69	20-Dec-17	Genus	Three phase 20- 100A – 2.2.10-d Page no . 54	Meters body:- Meter cover shall be transparent with polycarbonate LEXAN 143R/943A or equivalent on prior approval from the CED.	Request to add Opaque/transparent.	No change	Clarification
70	20-Dec-17	Genus	Three phase 20- 100A – 2.2.11 Page no . 54	Terminal block :- Terminal block should be in single mould with meter body base.	It seems that it is manufactured specific design. No utility in India is asking for such requirement. Kindly amend the same.	No such clause	Clarification

71	20-Dec-17	Genus	Three phase 20- 100A – 2.2.16.1 Page no . 55	Load survey Temperature	Request to delete this parameter.	No change	Clarification
72	20-Dec-17	Genus	Three phase 20- 100A – 2.2.16.2 Page no . 56	Instantaneous parameters Temperature	Request to delete this parameter.	Event to be logged after 90 Degree Temp	Clarification
73	20-Dec-17	Genus	Three phase 20- 100A – 2.2.22 Page no . 62	Push button :- Note: These Display parameters should have provision for inserting 24 additional parameters in display for future requirement.	Please confirm the details of 24 parameters.	No change	Clarification
74	20-Dec-17	Genus	Three phase 20- 100A – 2.2.23 Page no . 62	Communication LCD indicator The meter shall be provided with suitable LCD indication RxD and orange TxD communication in progress.	Please amend as "The meter shall be provided with suitable LCD indication for communication in progress". The same is mentioned in single phase specification.	No change	Clarification
75	20-Dec-17	Genus	Three phase 20- 100A – 2.2.26 Page no . 63	Type test – All tests as defined in IS 16444 Part-1: 2015 /IS 13779:1999 / IS15959 Part-2:2016. .	Type test as per IS16444 are in process. Hence please consider IS13779 for this tender. Please amend the clause accordingly.	At the time of supply, Meters should be in compliance with latest applicable BIS and further amendments	Clarification
76	20-Dec-17	Genus	Three phase 20- 100A – 2.2.26.3 Page no . 64	Acceptance test:- Error measurements with 38 abnormal condition as per Annexure -1	This is applicable for single phase meters. Kindly delete the same.	No change	Clarification
77	20-Dec-17	Genus	Three phase 20- 100A – 2.2.27 Page no . 64	Type test certificate – The bidder shall furnish the type test certificates of the meter for the tests as mentioned above as per the corresponding standards. All the tests shall be conducted at CPRI as per the relevant standards.	Type test as per IS16444 are in process. Hence please consider IS13779 for this tender. Please also add ERDA lab.	At the time of supply, Meters should be in compliance with latest applicable BIS and further amendments	Clarification
78	20-Dec-17	Genus	Three phase DT meter-2.3.4 Page no. 71	Vref = 230 V □ 1 %	Please amend as 230/240V.	No change	Clarification
79	20-Dec-17	Genus	Three phase DT meter-4.28 Page no. 73	Sleep Mode Meter shall not go in sleep mode. Display should not be 'off' at any point of time	We understand that this clause is for Power ON condition. In power off condition display can be enable by pressing push button. Kindly confirm.	Meter shall not go in sleep mode. In power off condition display can be enabled by pressing push button.	Amend
80	20-Dec-17	Genus	Three phase DT meter-4.34 Page no. 73	Communication module of meter for AMI- This module should be able to get connected to the NAN / WAN network of service provider (RF/ 4G) of CED.	Please add 3G also.	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.	Amend
81	20-Dec-17	Genus	Three phase DT meter-4.35 Page no. 74	Harmonics – The meter should record & display THDV and THDI as percentage. It should also indicate individual harmonic minimum up to 11 Harmonics for 15 days. Integration period should be 15 minutes.	Request to delete the same.	No change	Clarification
82	20-Dec-17	Genus	Three phase DT meter-2.3.5.8 Page no. 74	Optical Communication port - The complete data shall be downloaded within 2 minutes.	The complete data depends on data size. Hence the time should be minimum 5 minutes. Kindly amend the clause.	Optical Communication port - The complete data shall be downloaded within 5 minutes.	Amend
83	20-Dec-17	Genus	Three phase DT meter-2.3.6.6 Page no. 77	Minimum 08 DI & 02 DO required (Extendable up to 12 each type for future requirement) to communicate with DT/Breaker/Isolators/FPI, sensors etc	Request to delete the same.	No such clause	Clarification
84	20-Dec-17	Genus	Three phase DT meter-2.3.6.2 Page no. 77	Communication LED- The meter shall be provided with green color LED for RxD and orange color LED for TxD communication in progress.	Please amend as "The meter shall be provided with suitable LCD indication for communication in progress". The same is mentioned in single phase specification	No change	Clarification
85	20-Dec-17	Genus	SECTION-III INSTRUCTIONS TO BIDDERS (24) page no. 128	The bidder shall guarantee for providing service & expansion support in the aforesaid area (at least for backward compatibility) for at least 15 years.	Please clarify the actual guarantee period.	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.	Amend
86	20-Dec-17	Genus	2.2.30. GUARANTEE page no. 65	In the event any defect is found by the purchaser up to a period of at least 60 months from the date of commissioning or 66 months from the date of last supplies made under the contract whichever is earlier,		No such clause	
87	20-Dec-17	Genus	F. General scope of work (2) page no. 117	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.	amend
88	20-Dec-17	Genus	SECTION-III INSTRUCTIONS TO BIDDERS Cl. no. 29 page no. 13	Bidder shall provide 3rd party security audit certification after go live.	Kindly elaborate the requirement.	Details will be provide to the successful bidder	Clarification
89	20-Dec-17	Genus	SECTION-III INSTRUCTIONS TO BIDDERS (36) page no. 13	The NIC card /communication module ceiling price shall be revised downwards after every 2 years period subject to market price.	Instead of revising prices periodically, we suggest CED to purchase the same directly from the vendor.	Refer to the financial bid	Amend
90	20-Dec-17	Genus	SECTION-III INSTRUCTIONS TO BIDDERS (37) page no. 13	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.	Please clarify / confirm whether the same is applicable if Meter manufacturer uses his own communication module?	Refer to the financial bid	Amend

91	20-Dec-17	Genus	SECTION-III INSTRUCTIONS TO BIDDERS (39) page no. 14	There are other administrative expectations such as maintenance of local warehouse(s) at Delhi for storage of communication devices, checking by CED & subsequent distribution to end users.	Please clarify whether this warehouse is required only for NIC card supplier?	No such clause	Clarification
92	20-Dec-17	Genus	D. Approach and Methodology 1. COMMUNICATION CANOPY page no. 16	Control Centers is as shown below Figure 2	Please clarify whether CED will provide Control Center infrastructure like Civil structures, Power Supply, AC etc.…?	CED will provide the Civil Infra	Clarification
93	20-Dec-17	Genus	2. SMART METERS AND AMI IMPLEMENTATION page no. 21	4. Three phase CT operated Smart Meter 5. Three phase CT operated Smart Meter (for DT) 6. Feeder Meter	Three phase CT operated consumer Meter and Feeder Meter specifications are not available in Tender document, kindly arrange to provide the same.	It should be as per IS16444 Part 2 and IS 15959 part 3	Clarification
94	20-Dec-17	Genus	Form-III Financial Bid (To be submitted through online mode only) PROFORMA OF SCHEDULE OF RATES page no. 146	1.4 Three phase CT operated Smart Meter: Nos. 906 1.6 Feeder Meter Nos. 61			Clarification
95	20-Dec-17	Genus	2.1.2. APPLICABLE STANDARDS page no. 21	Table 2 - Applicable Standards- Single Phase Smart Meters IS 16444 Part-1 : 2015 A.C. Static Direct connected Watt hour Smart meter class 1.0 and 2.0	Type Testing of Smart Meters as per IS-16444 are at initial stage, request you to accept Type Test Reports as per IS-13779 / IS-14697 accordingly. Kindly confirm your acceptance.	Testing as per IS16444 and IS 15959 should be done as same has been started by agancies.	Clarification
96	20-Dec-17	Genus	2.1.20.1. page no. 37	Type Test (a) All tests as defined in IS 16444 Part-1: 2015 /IS 13779:1999 / IS15959 Part-2: 2016.			Clarification
97	20-Dec-17	Genus	Table 13 - Applicable Standards- page no. 44	Three Phase Smart Meters a IS 16444 Part-1 : 2015 A.C. Static Direct connected Watt hour Smart meter class 1.0 and 2.0			Clarification
98	20-Dec-17	Genus	2.1.24. GUARANTEE page no. 39	In the event any defect is found by the purchaser up to a period of at least 12 months from the date of commissioning made under the contract whichever is earlier	Please clarify guarantee period.	No such clause. Please refer to te same in detail.	Clarification
99	20-Dec-17	Genus	B. Read Performance & Penalty clause: Table 37 page no. 103	Monthly Billable Read (3 days billing window) Register Read 99.5% of readings from total installed base; HES to flag for non-compliance cases.	SLA is stringent. Since communication depends many factors like Location disturbance, Obstacles, Nuisance Signals, Service provider etc. Looking at field practical situations, request your good Office to relax SLA to 80%	No change	Clarification
100	20-Dec-17	Genus	Table 38 Maintenance support and Availability requirements page no.106	System System Availability requirements 1 Advanced Metering Infrastructure System (AMI System) : 99.5%		No change	Clarification
101	20-Dec-17	Genus	B. Read Performance & Penalty clause: Table 37 page no.105	There will be a penalty of additional 1% of monthly FMS for additional drop of 1% in Communication availability as per SLA, with maximum up to 10% per parameter. One end point consider for a penalty in one parameter will not be consider for penalty for other parameter. There will be penalty of Rs 100 /AMI NIC card / Day for non-communicating for more than 15 days.	This SLA is additional, request your good Office to delete this subject clause.	No change	Clarification
102	20-Dec-17	Genus	B. Read Performance & Penalty clause: Table 37 page no.105	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.	Meter installation is not in the scope of Bidder, please confirm once.	Note: Replacement of faulty NIC card in meters will be in scope of bidder.	Amend
103	20-Dec-17	Genus	31. INSTALLATION & IMPLEMENTATION page no.119	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.	Pl. clarify location / site details for DC, DR and CC.	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.	Amend
104	20-Dec-17	Genus	2.12. Spares inventory Page no 109	The Contractor shall maintain a spares inventory at his own cost to meet the spare availability requirements of the system. A Servers : 1* B Work Station Lot 1* C Routers & Switches Lot 1* D Communication Equip. Lot 1* E Field Devices Lot 1* F Meters DCU and other Field Devices Lot 1*	We understand Bidders has to consider spare items costing also in their offer	Yes	Clarification
105	20-Dec-17	Genus	F. General scope of work (17) page no.118	Maintain the mandatory and recommended (a minimum of 5%) spares during warranty and FMS period and provide the list of the same.		Yes	Clarification

106	20-Dec-17	Genus	PAYMENT CRITERIA page no.129	The payment terms for AMI system establishment and related services milestones in sequence are given below:	Payment terms are stringent. To easy Bidder's cash flow we request your good Office amend Payment terms as follows and there should be 3 separate P Os: Supply - 95% Payment shall be made against receipt of goods at your stores within 30 days from the date of bills submission and balance 5% Payment on prorate basis along with installation payment. Installation, Commissioning & Integration - 100% Payment shall be released on prorate basis within 30 days from the date of submission of bills. Operation & Maintenance – 100% on monthly basis within 15 days from the date of bills submission. Request your good Office to amend the subject clause accordingly.	no change	Clarification
107	20-Dec-17	Genus	PAYMENT CRITERIA page no.130	Any delay in compliance to the milestone timelines shall lead to Penalty, ……– Beyond 12 months : 0.5% of Contract Value (excluding Post Implementation phase Value) per week or part-thereof with maximum 5% of the contract value may be levied from the bill of the contractor.	We fully understand timely completion of project; however penalty should be only on undelivered portion. Request your good Office to amend the penalty clause.	Please refer to the tender document in detail	Clarification
108	20-Dec-17	Genus	A. QR for Bidder (2) Page no 135	Quality Certification: Bidder should have Smart Grid Maturity Model Experience or equivalent model (internationally accepted) experience.	Subject clause is stringent instead we request you to amend 'The Bidder should have experience in implementing AMI / Smart Grid Pilot Project or Member of any Smart Grid implementing agency in India'		
109	20-Dec-17	Genus	SECTION-VI ELIGIBILITY CRITERIA Page no 136 & 138	QR for Bidder(2) Experience (b)	Please clarify whether individual Bidder has to meet these QRs separately or together can meet? Kindly clarify / confirm.		
110	20-Dec-17	Genus		B. QR for AMI Solution Provider / Original Equipment Manufacturer (OEM)			
111	20-Dec-17	Genus		D. QR for Network Bandwidth Service Provider			
112	20-Dec-17	Genus	QR for Bidder(2) Experience (b) Page no 136	Successfully executed 02 AMR/AMI project covering implementation of minimum 15,000 nos. of Meters with required hardware, software and other associated accessories	We understand 15K is cumulative quantitative of any 2 Projects executed and not the individual P Os. Request your good Office to confirm once.		
113	20-Dec-17	Genus	B. QR for AMI Solution Provider / Original Equipment Manufacturer (OEM) Page no 136	QR for Bidder(2) Experience (b): Experience - AMI solution provider should have successfully executed at least 2 AMI/AMR projects involving an installation of at least 10,000 meters per project in the last 5 years (i.e. FY 2011-12 to ……	We understand this 10K nos. is cumulative quantity of 2 AMI/AMR Projects and not the individual Projects? Kindly clarify once.		
114	20-Dec-17	Genus	C. QR for Meter Manufacturer (OEM) (3) Experience	OEM should have min 2 years of experience in Smart meter manufacturing in India and also have supplied at least 25,000 AMI/AMR meters on RF/GPRS/In-built modem & related equipment to Indian Power Utilities in any 2 years, During last 7 years and manufactured at least 5000 meters for AMI project duly type tested as per BIS & NSGM guidelines in last 3 years. Total rejection of meters should be less than 1% at field due to manufacturing defects and all Such meters are installed and working well as AMR with all hardware & software.	a. Initially meters were supplied with IS 13779 as IS 16444 was not published. Kindly consider the same. b. Self certification should be sufficient regarding rejection of meters.		
115	20-Dec-17	Genus	QR for bidder Financial strength Page no 135	The average annual turnover of the bidder shall be a minimum of 30 Crores during the last 3 years ending 31st March of the previous financial year.	Your good self would agree that it's a prestigious project of MOP hence for smooth and quality execution in stipulated frame the existing financial capability is not sufficient. In order to achieve the mile stone of MOP we here by suggest that financial strength should be as "Aggregate annual turnover of any bidder should be minimum Rs. 400 crore in the last three financial years in respect of metering business only". In addition to this the project should be scalable for 2, 00,000 consumers hence all upcoming requirement/addition should be take care by maintaining good economic strength of bidder. Kindly amend the clause accordingly.		
116	20-Dec-17	Genus	Acceptance form for participation in reverse auction event Page no. 162	Acceptance form for participation in reverse auction event.	In this event some bidder shall the take advantage of this Relaxed condition & become Lowest by Providing Inferior Quality Material. In turns Board Loses its Revenue & can put adverse impact on this project. Hence to maintain the "Prestige of this valuable Project of MOP" reverse auction event should be removed.		
117	20-Dec-17	Cisco	General	General	1. Kindly add bare minimum specs for Datacenter and Field networking devices for example, Temperature, corrosion, throughput and security standards etc. This will ensure that product proposed meet minimum standards and better uptime and SLA can be achieved.	pl refer RFP	Clarification

118	20-Dec-17	Cisco	General	Scope of work	1. Page 17 : RF canopy network should be designed to cater data requirements of 2,00,000 Smart meters. Kindly clarify what is scope of work on day 1	**Clarification of Server/ Application Sizing**: MDM/ HES/ SAN Storage Initially the project is to be implemented for 30,000 customers for Sub-div-5 area. Considering the future requirement of Sub-Division-5 and entire utility CED as 50,000 and 2,00,000 customers respectively, following clarification is issued. 1. Initial Customer under the scope of project implementation is limited to 30,000 Only 2. Data Base & Storage Sizing will be based on 50,000 Customer meter Data for a period of 4 years without any additional cost implication to CED 3. Software Application – MDM and HES - Initially for 30,000 Consumer and License may have flexibility to add further customers in lot of 5,000 each. Lot license price should be valid for a period of 4 years from the finalization of award. 4. Software version should be able to support/scalable for 2,00,000 lac customers in case of future requirement by CED. 5. Frontend devices and backend IT systems should be sized to 50,000 meters . 6. NIC- Card / RF Module is also limited 30,000 customers only and may be scaled up to 50,000 customers . NIC-Card/ RF Module price will be valid till 2 years after go-live and may be further negotiated after mutual agreement after 2 years.	Clarification
119	20-Dec-17	Landis+Gyr	General, C. Scope of Work	5. Supply, installation and commissioning of MDMS suitable for CED and its integration with existing IT system.	Please provide details of existing IT System	Bidder to execute the project within project delivery timeline i.e. 12 months and Bidder to Supply, implement and integrate all equipments and system supplied and if during implementation/FMS stage if any new IT system is implemented by CED, Bidder to extend support for integration of their system with CED. For eg new billing system, SCADA, DTMS etc.	Clarification
120	20-Dec-17	Landis+Gyr	General, C. Scope of Work	12. The bidder shall confirm that, the HES has sufficient logic driven smoothening built in features, for example: reliably determining current status of a meter once an outage alert is received from the meter, as well as, ability to suppress or filter false positives from outage and restoration notifications. There should be provision for deploying more such user defined logics.	Since every Software customization after delivery of system is a part of Change Management, so RECPDCL is requested to confirm the logics for the bidders to incorporate prior to delivery of the system	Will be provided after award of contract to successful bidder.	Clarification
121	20-Dec-17	Landis+Gyr	General, C. Scope of Work	15. It would be the responsibility of the bidder to integrate their NIC module with various meter OEM's. Necessary agreement must be executed at their end as per requirement In future, it would be bidders' responsibility to integrate new meter or any other pplication/equipment as decided by CED, in RF canopy network.	RF Canopy to integrate only equipments which are related to electrical distribution for example new meters ,DA devices etc In future	No Change	Clarification
122	20-Dec-17	Landis+Gyr	General, C. Scope of Work	16. Bidder to also indicate timeframe for developing solution with meter and other application equipment's / OEM's. As per CED, the desired timeline shall not exceed 4 months.	RECPDCL to confirm what other application equipment/ OEM needs to be integrated with the AMI field level	Bidder to execute the project within project delivery timeline i.e. 12 months and Bidder to Supply, implement and integrate all equipments and system supplied and if during implementation/FMS stage if any new IT system is implemented by CED, Bidder to extend support for integration of their system with CED. For eg new billing system, SCADA, DTMS etc.	Clarification
123	20-Dec-17	Landis+Gyr	General, C. Scope of Work	17. The bidder shall confirm that offered RF canopy solution and associated network elements including NIC should be tuneable 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.	Offered NIC card/ Router/ Collector is not tune-able to any other frequency except 865-867 MHz	Accepted The offered RF Canopy solution should be in the frequency range of 865-867 MHz	Amend
124	20-Dec-17	Landis+Gyr	General, C. Scope of Work	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.	Should be considered as per SCC	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 10 years.	Amend
125	20-Dec-17	Landis+Gyr	General, C. Scope of Work	20. The bidder shall spell out the time duration required and associated success rate in case of OTA firm-ware up-gradation on number of meters/communication devices simultaneously, well in advance, from the design stage and shall also ensure that all these Access points & Nodes to be used in the system shall have more than adequate memory capacity for the Firmware upgrades to happen smoothly, and securely, meeting the possible changing enhanced expectations of the next 15 years, as well as, avoiding overwriting operations during the Firmware upgrades, thus avoiding obsolescence of the hardware installed at site in quick time.	Should be considered as per SCC	20. The bidder shall spell out the time duration required and associated success rate in case of OTA firm-ware up-gradation on number of meters/communication devices simultaneously, well in advance, from the design stage and shall also ensure that all these Access points & Nodes to be used in the system shall have more than adequate memory capacity for the Firmware upgrades to happen smoothly, and securely, meeting the possible changing enhanced expectations of the next 10 years, as well as, avoiding overwriting operations during the Firmware upgrades, thus avoiding obsolescence of the hardware installed at site in quick time.	Clarification

126	20-Dec-17	Landis+Gyr	General, C. Scope of Work	23. The bidder shall guarantee for providing service & expansion support in the aforesaid area (at least for backward compatibility) for at least 15 years.	a)Service and guarentee support will be provided only during the guarantee phase and FMS period.If any support if required after the end of FMS duration it will be on mutually agreed terms and condition. b) 15 Years timeline is impractical	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	Amend
127	20-Dec-17	Landis+Gyr	General, C. Scope of Work	27. RF network shall provide unified level of signal strength without discrimination of Network topologies in licensed area.	As signal strength depend on the various factors like any obstruction , noise so it would be imp[ossible to maintain a unified signal strength however L+G ensure RECPDCL to maintain a good signal strength for all the communicating devices neccesarry for meeting the given SLA.	Bidder need to depoly additional network components, / if required, to achieve desired SLA	Clarification
128	20-Dec-17	Landis+Gyr	General, C. Scope of Work	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.	Any changes within the Project Life cycle period shall be addressed. Changes beyomd the timeline cannot be addressed at this point of time	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 also till project engagement period & FMS.	Amend
129	20-Dec-17	Landis+Gyr	General, C. Scope of Work	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.	The NIC/ module prices should be fixed between Bidder and Meter OEM and should not be open to negotiation as it will lead to dispute.	No Change	Clarification
130	20-Dec-17	Landis+Gyr	General, C. Scope of Work	40. It shall be the responsibility of solution provider to resolve any communication and IT Infrastructure related issues of meters and IT Infra of different OEMs. Failure Rate: Less than 0.75% failure rate per annum for all network communications equipment over the required operating life (i.e. 10 years) of the system. (Failure is defined as any occurrence when the equipment is not functioning per design specification.)	Not applicable as we are only responsible for our network	As all the solution is being supplied by bidder hence its bidder responsibility to resolve issues related to their supplied soltuion and extend the support in resolving other OEM equipments.	Clarification
131	20-Dec-17	Landis+Gyr	General, C. Scope of Work	41. Less than 1.5% failure rate per annum for all network communications equipment over the extended operating life of the system. (Operating life and extended life of the equipment is typically defined by contract between the utility and the communication equipment supplier.	What is extended operating life?	10 yrs	Clarification
132	20-Dec-17	Landis+Gyr	General, C. Scope of Work	43. The network solution provider shall ensure two-way communication success rate, for both AMI & operational applications and response time within 6 seconds for operations of demand response and switching of electrical devices with a success rate of 99%-, consistently.	For DR applications, the SLA of 6 sec. is stringent.	Network should be designed to meet the latency requirements (6 second)	Clarification
133	20-Dec-17	Landis+Gyr	General, C. Scope of Work	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.	Will the cost be a part of BoQ?	If solution is proposed in licensed band; bidder need to own total cost of solution for project lifecycle (10 yrs). Also bidder need to ensure necessary regulatory approvals within stipulated timelines	Amend
134	20-Dec-17	Landis+Gyr	General, C. Scope of Work	10. Selected Bidder to setup a Project Management Office in CED, Chandigarh within 30 days from the date of award of contract….	Will the Office space be provided by CED?	No, bidder to arrange office space	Clarification
135	20-Dec-17	Landis+Gyr	General D. QR for Network Bandwidth Service Provider	D. QR for Network Bandwidth Service Provider	It is not required	No change	Clarification
136	20-Dec-17	Landis+Gyr	General	HT Meter Specs are not given in the RfP	RECPDCL to provide the same	It should be as per IS16444 Part 2 and IS 15959 part 3	Amend
137	20-Dec-17	Landis+Gyr	General	DT Meter Specs are not given in the RfP	RECPDCL to provide the same		Amend
138	20-Dec-17	Landis+Gyr	General 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.	Please provide details of the DC/DR.	Details will be provided to the successful bidder	Clarification
139	20-Dec-17	Landis+Gyr	GCC G. SUSPENSION OF CONTRACT 1. Suspension for Convenience	RECPDCL may, at any time and at its sole option, suspend execution of all or any portions of the schedule of items of contract to be supplied/work to executed by Associate under the contract by providing to the Associate atleast two business days written notice for contracts having contract completion period less than sixty days and atleast seven business days' notice for all other contracts.	Since any contract is legal agreement between purchaser and vendor, suspension for convenience by either of the parties in legally invalid		
140	20-Dec-17	Landis+Gyr	GCC H. TERMINATION OF CONTRACTS 1. Termination for Default/Breach of Contract	Without prejudice to its right to terminate for breach of contract,RECPDCL may, without assigning any reason, terminate the Contract in whole or in part at any time at its discretion while the contract is in force by serving a written notice of two weeks to the Associate.	RECPDCL should inform to L+G in writing giving atleast 60 days notice.		

141	20-Dec-17	Landis+Gyr	GCC H. TERMINATION OF CONTRACTS 1. Termination for Default/Breach of Contract	In case of termination of the contract the parties agree to be governed inter alia by the following: a) In case RECPDCL exercises its right of termination as stated above the associate shall not dispute or object to the same. b) The Associate shall be entitled to receive and claim only such payments OR sums of money from RECPDCL as may be found payable to it in regard to works executed by it under the terms of the contract and no other claim of any nature whatsoever shall be made by the Associate. c) All such provisions which the parties have agreed to survive and prevail even after termination of the contract shall remain effective despite the termination.	Agreed, however in case of any dispute, L+G shall be free to take due recourse as per provisions available in the Contract or as per Law	No change.Please refer to the complete clause for better clarity.	Clarification
142	20-Dec-17	Landis+Gyr	GCC, 3. Termination for Convenience of RECPDCL	RECPDCLat its sole discretion may terminate the contract by giving 30 days prior notice in writing or through email to the Associate. RECPDCL shall pay the Associate for all the supplies/ services rendered till the actual date of contract termination against submission of invoice by the Associate to that effect.	Since any contract is legal agreement between purchaser and vendor, termination for convenience by either of the parties in legally invalid. We request to amend this clause as any termination for convenience either by RECPDCL or by L+G shall be mutually agreed by both the parties.		
143	20-Dec-17	Landis+Gyr	SCC SECTION-V SPECIAL CONDITIONS OF CONTRACT	10. RECPDCL reserves the right to increase or decrease the RC quantity (on same rate and terms and conditions) by another ± 20% if required.	This project is not a Rate Contract Project hence whis clasue should be deleted	RECPDCL reserves the right to increase or decrease the quantity (on same rate and terms and conditions) by another ± 20% if required	Amend
144	20-Dec-17	Landis+Gyr	SCC SECTION-V SPECIAL CONDITIONS OF CONTRACT	28. For the Supply: as liquidated damages a sum equal to 1% of the price of any material/store/services not delivered or total value in case where part delivery is of no use, per week or part of week subject to maximum of 10% of total order for supply.	1% is on higher side For the Supply: as liquidated damages a sum equal to 0.5% of the price of any material/store/services not delivered or total value in case where part delivery is of no use, per week or part of week subject to maximum of 5% of total order for supply.	No change	Clarification
145	20-Dec-17	Landis+Gyr	2.1.4.13/b	Between each current (or voltage circuit) & each and every other circuit.: 50 M Ohm	As per IS 13779, this clause is not applicable for 1P and 3Ph WCM meter, so same shall be deleted.	Deleted	Amend
146	20-Dec-17	Landis+Gyr	2.1.1	scope:- technical requirements of design, manufacturing, testing & integration with network integration card(NIC) of RF communication to be used at CED for LT Single phase two Wire, 10-60 A static smart meters of accuracy class 1.0 (here after referred as meters) complete with all accessories for efficient and trouble free operation.	we assume that only meter and comms card required, if any other accessories required then same shall be reflected in BOQ.	No Change	Clarification
147	20-Dec-17	Landis+Gyr	2.1.4.25	(Bidder to be provide free of cost 04 nos of jig for retrieving data from memory of meter. Jig should be such that NVM can be push fit on this jig and data can be retrieve from this NVM).	In case of Smart meters, reading will be available in the data centre, so use of jigs is not forseen.	No Change	Clarification
148	20-Dec-17	Landis+Gyr	2.1.4.31	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).	Meter shall have security as mentioned in IS 15959 Part2, so that programming access will be limited. For security concerns any kind of programming shall be done on RF networks only. CED is requested to delete requirement of programming through CMRI.	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).	Amend
149	20-Dec-17	Landis+Gyr	2.1.4.36	Operating Voltage range of relay:-130 V to 440V	Relay is internal part of meter and get supply from meter. Operating volatge range of meter shall be applicable for relay also i.e. 60% of Vref (144V to 440V)	Operating Voltage range of relay:-144 V to 440V	Amend
150	20-Dec-17	Landis+Gyr	2.1.4.37/e	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.	Offered meter is as per IS 15959 part 2, which is open DLMS protocol. API and XML convertor not applicable as per stanadard in Smart Meter.	Bidder to provide compatible software for data downloadig of meter thorgh CMRI/HHD	Amend
151	20-Dec-17	Landis+Gyr	2.1.4.40/c	Tamper event logging along with values of intensity & snapshot of occurrences & restorations Table 5 - Tamper Event Details for Single Phase Smart Meters.	Sensing values of intensity is not possible in offered meters. Either immunity or tamper logging will be provided against requiremnt of "values of intensity". We request CED to delete this clause.	Tamper event logging along with values & snapshot of occurrences & restorations Table 5 - Tamper Event Details for Single Phase Smart Meters.	Amend
152	20-Dec-17	Landis+Gyr	table 6	Battery:- Lithium with guaranteed life of 15 years	Battery life shall be as per SCC of RFP	Battery:- Lithium with guaranteed life of 10 years	Amend
153	20-Dec-17	Landis+Gyr	2.1.17	Load Switch LCD indicator- The meter shall be provided with suitable LCD indication for condition of load switch (Close/open). LCD should show when load switch is open.	Load switch LCD/LED indication shall be accepted.	No Change	Clarification
154	20-Dec-17	Landis+Gyr	2.1.19	(u) Communication Technology is IHD supported (with carrier frequency) (v) Firmware version for meter c) property of CED in barcode	u. IHD suport shall be deleted as not a part of this tender. v. Meter have provision to change firmware version in field and change of information on meter nameplate will not be possible in field, same shall be deleted. c. Property of CED wil be provided in text, same information in barcode shall be deleted	"Clause (u) Communication Technology is IHD supported (with carrier frequency) " ---- Deleted, rest clause will remain unchanged.	Amend
155	20-Dec-17	Landis+Gyr	Auto scroll mode Push Button Scroll mode	- MD resolution: 3+3 - Voltage resolution: 3+3 - Parameter 15 to 23a in push mode	- MD resolution: 2+2 in place of 3+3 - Voltage resolution: 3+2 in place of 3+3 - Parameter 15 to 23a in push mode needs tamper wise count/implementation of ESD, magnet, Cover open,ND, SW, Count of connect/disconnect. Such implementation is against DLMS. we request CED to delete these parameters.	- MD resolution: 2+2 in place of 3+3 - Voltage resolution: 3+2 in place of 3+3 **Rest No Change**	Amend

156	20-Dec-17	Landis+Gyr	2.1.11.1	Load survey:- Phase current and Neutral current	As per IS 15959 part 2, metering current(phase/neutral current which one is higher) shall be demanded instead of two separate phase and neutral current.	No Change	Clarification
157	20-Dec-17	Landis+Gyr	2.1.11.2	Instantaneous parameters -cumulative power off duration Cumulative Tamper duration -instantaneous frequency resolution 2+3 -volatge resolution 3+3 -vector/phasor diag -MRI/PC and Dump date & time	1) As per DLMS only power On duration shall be demanded. 2) Cummulative tamper duration is against requirement od DLMS as DLMS support compartment wise tampers. we request CED to delete this requirement. 3) frequency resolution shall be 2+2 4) voltage resolution shall be 3+2 5) Vector diag not applicable for 1Ph meter 6) MRI/PC and Dump date and time can be treated as meter date and time because in case of RF communication live data will be downloaded by RF comms card.	Instantaneous parameters -cumulative power off duration --- **Deleted** - Cumulative Tamper duration -- No change -instantaneous frequency resolution- 2+2 -volatge resolution- 3+2 -vector/phasor diagram - -- **Deleted** - MRI/PC date & time - **read as "Last read date & Time"** - Dump date & time - -- No Change	Amend
158	20-Dec-17	Landis+Gyr	Table 5	ESD/Jammer occ. Time 2 min Magnet occ time 10 min Single wire restoration v>190V	1) Occurrence time of ESD/jammer shall be 1 minute, so that these destructive tamper events can be recorded more precisely. 2) Magnet tamper occurrence time shall be 1 minute, so that any impact on CT due to external magnetic field shall not produce losses to utility. 3) Single wire tamper shall be restored if meter PCBA wake on voltage	For Sr. No 1 and 2 : Bidder to comply by RFP. For Sr No 3: Load switch to open in case of Single wire operation.	amend
159	20-Dec-17	Landis+Gyr	2.1.4.40/b	All the tamper events i.e. Magnet/ESD/Meter Top Cover Open/Neutral Disturbance /Single Wire/Low Voltage Check/Current Mismatch/Temperature Rise/Power on-off shall be logged in the memory of the meter with date and time stamp of occurrence and restoration along with instantaneous electrical parameter (Voltage, Current (phase and neutral), energy, PF etc.)	As per IS 15959 part 2, metering current(phase/neutral current which one is higher) shall be demanded instead of two separate phase and neutral current.	No Change	Clarification
160	20-Dec-17	Landis+Gyr	38 tamper condition	condition no. 26,27 and 34	In these conditions meter will record energy as per prevaling electrical condition. In condition 26 and 27 meter will record exactly same energy used by consumer. So no loss to utility, meter will not record this as tamper. In condition 34 meter may record extra energy (depending upon tamper device). As end consumer is not getting any benefit with these condition, so these conditions shall be removed	No Change	Clarification
161	20-Dec-17	Landis+Gyr	2.1.22/j	One leafet with each meter	leflet with each meter will waste papers, we request CED to accept leaflet in soft copy. All the details will be available on portal. Wasting paper is wastage of National resource.	No Change	Clarification
162	20-Dec-17	Landis+Gyr	2.1.4.37/g	For purpose of exercising control, like outage management, the meter should send abnormalities at the consumers' end like Power failure (Last Gasp), Power Restoration (First Breath). Additional exceptional events should also be communicated to HES by meter immediately after the occurrence through RF / RF Mesh. It should also indicate the restoration of the same event. List of events to be reported should be configurable over the air(OTA). The meter should have "Last Gasp" and “First Breath” feature to facilitate sending alerts to the HES during fully powered off / On condition.	Last gasps and first breath will be provided at power outage condition. All other exceptional tampers and their details shall be pushed immediately after ocerrence of that tamper event, but not in power outage condition.	No Change	Clarification
163	20-Dec-17	Landis+Gyr	2.1.11.4	c) Flags Description in billing profile a. NVM b. RTC c. Battery	As per IS 15959 part2 flag description are not part of billing profile. CED is requested to delete this requirement for compliance of DLMS.	Parameters should be available anywhere else, may be under diagnostic profile	Clarification
164	20-Dec-17	Landis+Gyr	2.1.4.36.	The meter shall have the facility of disconnecting and re-connecting the load of the meter from the remote and by authenticated command through Laptop/HHU at site by means of a built-in contactor. This operation shall be conducted with the help of a third party software which is owned by CED and in addition to the manufacturer's own software, both in RF / RF Mesh with fall back provision	Please clarify and provide details of software owened by CED	No Change : However, Bidder has to extend their full support in case of integration requirement with other additional technologies /software adopted (e.g.- SCADA/ ADMS/ DTMS) by CED during the project engagement including FMS Period	Clarification
165	20-Dec-17	Landis+Gyr	2.1.21	Type Test	Type test of IS 16444 part 1 shall be submitted at the time of supply	Bidder should support Latest applicable BIS standard and any further ammendments	Clarification
166	20-Dec-17	Landis+Gyr	2.2.4.13/b	Between each current (or voltage circuit) & each and every other circuit.: 50 M Ohm	As per IS 13779, this clause is not applicable for 1P and 3Ph WCM meter, so same shall be deleted.	No Change	Clarification
167	20-Dec-17	Landis+Gyr	2.2.1	scope:- This specification covers the technical requirements of design, manufacturing, testing & integration with network integration card (NIC) of RF communication to be used at CED for three phase four Wire, 3x230 voltage, 20-100A, whole current static smart meters of accuracy class 1.0 (here after referred as meters) complete with all accessories for efficient and trouble free operation.	As per clause 2.2.4.4 reference voltage is 240, these two requirements are contradictory with each other. Scope shall be amended as 3*240V..... we assume that only meter and comms card required, if any other accessories required then CED is requested to add accessories in BOQ.	No Change	Clarification

168	20-Dec-17	Landis+Gyr	2.2.4.8.	Starting Current 40mA (0.2% of Ib) (phase or neutral current)	Starting current test for Neutral is not applicable for 3 Ph Meter. CED is to delete neutral current starting current requirement.	No Change	Clarification
169	20-Dec-17	Landis+Gyr	2.2.4.25 & 2.2.35	(Bidder to be provide free of cost 04 nos of jig for retrieving data from memory of meter. Jig should be such that NVM can be push fit on this jig and data can be retrieve from this NVM).	In case of Smart meters, reading will be available in the data centre, so use of jigs is not forseen. Moreover advance security/data encryption prohibits any access to the meter. CED is requsted to delete requirement of Jigs.	No Change	Clarification
170	20-Dec-17	Landis+Gyr	2.2.4.31	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).	Meter shall have security as mentioned in IS 15959 Part2, so that programming access will be limited. For security concerns any kind of programming shall be done on RF networks only. CED is requested to delete requirement of programming through CMRI.	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).	Amend
171	20-Dec-17	Landis+Gyr	2.2.4.36	Operating Voltage range of relay:-130 V to 440V	Relay is internal part of meter and get supply from meter. Operating volatge range of meter shall be applicable for relay also i.e. 60% of Vref (144V to 440V)	Operating Voltage range of relay:-144 V to 440V	Amend
172	20-Dec-17	Landis+Gyr	2.2.4.36	6. Utilization category:- UC2 or better	As per IS 15884 for 20-100A rating it is mandatory to have UC3 complied relay. We request CED to ammend the same.	6. Utilization category:- **UC3** or better	Amend
173	20-Dec-17	Landis+Gyr	2.2.5/f	API required for converting raw file to XML. (DLMS/OBIS) should also be provided if applicable.	Offered meter is as per IS 15959 part 2, which is open DLMS protocol. API and XML convertor not applicable as per stanadard in Smart Meter.	No Change	Clarification
174	20-Dec-17	Landis+Gyr	2.2.5/g	For purpose of exercising control, like outage management, the meter should send abnormalities at the consumers' end like Power failure (Last Gasp), Power Restoration (First Breath). Additional exceptional events should also be communicated to HES by meter immediately after the occurrence through RF / RF Mesh. It should also indicate the restoration of the same event. List of events to be reported should be configurable over the air(OTA).	Last gasps and first breath will be provided at power outage condition. All other exceptional tampers and their details shall be pushed immediately after ocerrence of that tamper event, but not in power outage condition.	No Change	Clarification
175	20-Dec-17	Landis+Gyr	2.2.8	Tamper event logging along with values of intensity & snapshot of occurrences & restorations Table 16 - Tamper event details for 3 phase meters.	Sensing values of intensity is not possible in offered meters. Either immunity or tamper logging will be provided against requiremnt of "values of intensity". We request CED to delete this clause.	No Change	Clarification
176	20-Dec-17	Landis+Gyr	2.2.8	Each such event shall be provided with minimum count of as per Table 16 - Tamper event details for 3 phase meters to avoid missing of data amidst usual events (like power failure) due to the limitation of FIFO. Persistence time for occurrence and restoration for the events along with their threshold values shall be as per Table 16 - Tamper event details for 3 phase meters.	Requirement shall be as per IS 15959 part3. As per standard compartment wise event structure and number of events shall be demanded based FIFO functionality.	No Change	Clarification
177	20-Dec-17	Landis+Gyr	Table 16	ESD/jammer occurrence 2 min Magnet occurrence 10min High neutral current tamper Temperature occurrence(100 degree) and restoration(80 degree) condition over load (120%)	1) Occurrence time of ESD/jammer shall be 1 minute, so that these destructive tamper events can be recorded more precisely. 2) Magnet tamper occurrence time shall be 1 minute, so that any impact on CT due to external magnetic field shall not produce losses to utility. 3) Meter can record internal ambient temperature of meter, occurrence and restoration shall be reduced to 70 and 60 degree respectively. 4) As per IS 15959 part 2 over load tamper occurrence shall be in kW. Provision of configuration of load shall be demanded so that sanctioned load shall be programmed based on consumer requirement. we will request CED to prepare SOP of configuration of load so that necessary actions can be done by bidder.	No Change , However better functionality bidder may offer. Required SOP will be disscussed after awrd of contract	Clarification
178	20-Dec-17	Landis+Gyr	2.2.11/f	f) 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. D) The preferred Size of the allen screw shall be 6mm dia.	These two clauses are contradictory to each other, we request CED to amend size of alen screw as 6mm. This 6 mm size is more suitable for connecting cables in field with proper torque.	f) 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. D) The preferred Size of the allen screw shall be 6mm dia.	Amend
179	20-Dec-17	Landis+Gyr	2.2.16.2	Instantaneous Parameter:- MRI/PC date & Time Dump date & Time voltage resolution Reactive Current Cumulative Tamper duration	MRI/PC and Dump date and time can be treated as meter date and time because in case of RF communication live data will be downloaded by RF comms card. Voltage resolution shall be 3+2 instead of 3+3. Phase wise reactive current shall be deleted as same shall not be required if we have phase wise active and line currents Cummulative tamper duration is against requirement of DLMS as DLMS support compartment wise tampers. we request CED to delete this requirement.	Instantaneous Parameter:- MRI/PC date & Time --- t**o be read as " Last read date & time"** Dump date & Time **--- No change** voltage resolution **--- No change** Reactive Current **--- No change** Cumulative Tamper duration **--- No change**	Amend
180	20-Dec-17	Landis+Gyr	2.2.16.4	(c) Flags Description in billing i. NVM ii. RTC iii. Battery	As per IS 15959 part2 flag description are not part of billing profile. CED is requested to delete this requirement for compliance of DLMS.	Parameters should be available anywhere else, may be under diagnostic profile	Clarification

181	20-Dec-17	Landis+Gyr	2.2.9	Battery:- Lithium with guaranteed life of 15 years	Battery life shall be as per SCC of RFP	Battery:- Lithium with guaranteed life of 10 years	Amend
182	20-Dec-17	Landis+Gyr	2.2.21	MD kW and kVA Export calculation	we request CED to clarify use of export MD's as such parameters are not required by any regulatory	No Change	Clarification
183	20-Dec-17	Landis+Gyr	2.2.23	Pulse Rate: The meters shall have a suitable test output device. Red color blinking LED (marked as imp/kWh) shall be provided in the front. This device shall be suitable for using with sensing probe used with test benches or reference standard meters. The test output device shall have constant pulse rate of (preferred value- 3200) pulse / kWh. Meter constant shall be indelibly printed on the name plate as (preferred value- 3200) imp / KWh.	this clause is for single phase meter, we request CED to amend the same.	No Change	Clarification
184	20-Dec-17	Landis+Gyr	2.2.25	21 Communication Technology is IHD supported (with carrier frequency) 22 Firmware version for meter 3 property of CED in barcode	21. IHD suport shall be deleted as not a part of this tender. 22. Meter have provision to change firmware version in field and change of information on meter nameplate will not be possible in field, same shall be deleted. 3. Property of CED wil be provided in text, same information in barcode shall be deleted	"Clause 21 Communication Technology is IHD supported (with carrier frequency) " ---- Deleted, rest clause will remain unchanged.	Amend
185	20-Dec-17	Landis+Gyr	2.2.28	j. One no. leaflet with each meter	leflet with each meter will waste papers, we request CED to accept leaflet in soft copy. All the details will be available on portal. Wasting paper is wastage of National resource.	No Change	Clarification
186	20-Dec-17	Landis+Gyr	2.2.8	The meter shall register correctly if supply neutral is not available at the meter neutral terminal. The meter shall work in absence of any phase. It shall keep recording correctly in case of unbalance system voltage also as defined above.	Meter shall keep recording correctly/with in limit if balanced voltage provided to meter and neutral is not available. We request CED to amend the same.	No Change	Clarification
187	20-Dec-17	Landis+Gyr	2.1.26.1	Type Test	Type test of IS 16444 part 1 shall be submitted at the time of supply	Bidder should support Latest applicable BIS standard and any further ammendments	Clarification
188	20-Dec-17	Landis+Gyr	2.3.1	scope:- supply of 3 phase 4 wire, 3 X 230 volts, ---/5 Amp CT operated static smart meter of Class 0.5s accuracy complete with all accessories for efficient and trouble free operation for indoor & outdoor use.	As per clause 2.3.4/4.4 reference voltage is 240, these two requirements are contradictory with each other. Scope shall be amended as 3*240V..... we assume that only meter and comms card required, if any other accessories required then CED is requested to add accessories in BOQ.	No Change	Clarification
189	20-Dec-17	Landis+Gyr	2.3.2	Applicable standards:- IS 14697(1999)	IS 16444 Part 2 is new Indian standard for LTCT and HTCT Smart meters, same shall be amended for type test and BIS instead of IS 14697.	Bidder should support Latest applicable BIS standard and any further ammendments	Clarification
190	20-Dec-17	Landis+Gyr	2.3.4/4.33	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).	Meter shall have security as mentioned in IS 15959 Part3, so that programming access will be limited. For security concerns any kind of programming shall be done on RF networks only. CED is requested to delete requirement of programming through CMRI.	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).	Amend
191	20-Dec-17	Landis+Gyr	2.3.4/4.35	The meter should record & display THDV and THDI as percentage.	As Per specs THD V & THD I demanded in Load survey only, this requirement shall be phase wise THD V and phase wise THD I so that detailed harmonics can be achieved. Also need clarification on these parameters required in display or not.	No change, bidder may offer better and additional functionalities	Clarification
192	20-Dec-17	Landis+Gyr	2.3.5.2	It should be the responsibility of the bidder to ensure integration of meter into HES (Supplied by RF communication provider)of existing RF-mesh network system of CED. (RF service provider will also support this activity).	As per BOQ HES and MDM are in scope of bidder, so already integrated product shall be supplied.	Accepted	Clarification
193	20-Dec-17	Landis+Gyr	2.3.5.3	For cellular fall back, the modem / Module should have backward compatibility.	We assume that cellular fall back option is in scope of utility, this is not in scope of bidder. CED is requested to delete this clause.	Successful bidder should abide by SLA with single or with hybrid technology. SLA abiding is a mandate.	Clarification
194	20-Dec-17	Landis+Gyr	2.3.5.8	The complete data shall be downloaded within 2 minutes.	In single phase meter 10 min download time mentioned, we request CED to change download time inline with single phase i.e. 10 min.	No Change	Clarification
195	20-Dec-17	Landis+Gyr	2.3.5.10	CED expected time for integration of meter with RF module is 12 months from the dated of award of contract. Meter should be supplied to CED along with integrated NIC card (bidder to purchase NIC card from CED approved RF supplier).	This clause shall not be applicable when Meter, comms, HES and MDM are in scope of single bidder.	No Change	Clarification
196	20-Dec-17	Landis+Gyr	2.3.5.13	API required for converting raw file to XML. (DLMS/OBIS) should also be Provided.	Offered meter is as per IS 15959 part 3, which is open DLMS protocol. API and XML convertor not applicable as per stanadard in Smart Meter.	No Change	Clarification

197	20-Dec-17	Landis+Gyr	2.3.5.14	For purpose of exercising control, like outage management, the meter should send abnormalities like Power failure (Last Gasp), Power Restoration (First Breath), CT secondary current is >90% and unbalancing of CT secondary current among three phases CTs is > 50%. This values should be configurable through remote in single/broadcast mode. Additional exceptional events should also be communicated to HES by meter immediately after the occurrence through RF / RF Mesh. It should also indicate the restoration of the same event. List of events to be reported should be configurable over the air(OTA). The meter should have “Last Gasp” and “First Breath” feature to facilitate sending alerts to the HES during fully powered off / On condition.	CED is requested to clarify "CT secondary current is >90% and unbalancing of CT secondary current among three phases CTs is > 50%. This values should be configurable through remote in single/broadcast mode". Last gasps and first breath will be provided at power outage condition. All other exceptional tampers and their details shall be pushed immediately after ocerrence of that tamper event, but not in power outage condition.	Will be provided after award of contract to successful bidder during detail engineering discussion.	Clarification
198	20-Dec-17	Landis+Gyr	2.3.5.15.11	Backward compatibility of MDAS with hardware (meters and communication devices) and vice-versa is required for any future upgradation of hardware / software and this is an essential pre-requisite for supply.	Backward compatibility of any hardware can not be in scope of bidder, such requirement shall be deleted. Offered meter have firmware upgrade feature, any upgradation required hardware change will not be possible. CED is requested to ammend this clause.	No Change, Will be clarified during details engineering discussion post award of work	Clarification
199	20-Dec-17	Landis+Gyr	2.3.6.1	Each such event shall be provided with minimum 25 Nos of counts to avoid missing of data amidst usual events (like power failure) due to the limitation of FIFO. Persistence time for occurrence and restoration for the events along with their threshold values shall be as per table given below.	Requirement shall be as per IS 15959 part3. As per standard compartment wise event structure and number of events shall be demanded based FIFO functionality.	No Change	Clarification
200	20-Dec-17	Landis+Gyr	2.2.8	Each such event shall be provided with minimum count of as per Table 16 - Tamper event details for 3 phase meters to avoid missing of data amidst usual events (like power failure) due to the limitation of FIFO. Persistence time for occurrence and restoration for the events along with their threshold values shall be as per Table 16 - Tamper event details for 3 phase meters.		No Change	Clarification
201	20-Dec-17	Landis+Gyr	Table 29	High neutral current tamper	Logic provided for High neutral current is Ir + Iy + Ib + In > 20% which will already covered in CT Bypass tamper. We request CED to relook or delete this tamper event.	No Change, Will be clarified during details engineering discussion post award of work	Clarification
202	20-Dec-17	Landis+Gyr	2.3.6.3	The meter shall register correctly if supply neutral is not available at the meter neutral terminal. The meter shall work in absence of any phase. It shall keep recording correctly in case of unbalance system voltage also as defined above.	Meter shall keep recording correctly/with in limit if balanced voltage provided to meter and neutral is not available. We request CED to amend the same.	No Change	Clarification
203	20-Dec-17	Landis+Gyr	2.3.7.1	Lithium with guaranteed life of 15 years	Battery life shall be as per SCC of RFP	Lithium with guaranteed life of 10 years	Amend
204	20-Dec-17	Landis+Gyr	2.3.14	The meter shall be capable of recording 30 minutes average of the following parameters for at least last 60 days 1) Voltage of each phase 2) Current of each phase 3) PF of each phase 4) Total KWh 5) Total KVAh 6) KVArh(Lagging) 7) KVArh(Leading) 8) Neutral Current 9) Frequency 10) THDV 11) THDI	As per IS 15959 part 3, any 12 parameters @35 days shall be demanded. CED is requested to reduce number of parameters for load survey	No Change	Clarification
205	20-Dec-17	Landis+Gyr	2.3.18	Name Plate:- xx. Communication Technology is IHD supported (with carrier frequency) iii. property of CED in barcode	IHD suport shall be deleted as not a part of this tender. Property of CED wil be provided in text, same information in barcode shall be deleted	"Clause xx.Communication Technology is IHD supported (with carrier frequency) " ---- Deleted, rest clause will remain unchanged.	Amend
206	20-Dec-17	Landis+Gyr	2.3.21	i. One no. leaflet with each meter	leflet with each meter will waste papers, we request CED to accept leaflet in soft copy. All the details will be available on portal. Wasting paper is wastage of National resource.	No Change	Clarification
207	20-Dec-17	Landis+Gyr	GTP	DI/DO as per Cl 4.37.6	DI/DO requirement deleted from specs, same shall be removed from GTP.	Accepted	Amend