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MMC/NSC/Smart/6962

Date: 11.03.2019

CLARIFICATION TO QUERIES

Sub: Tender for Supply, installation and FMS activity for LT AC Single Phase 10-60A Smart (Postpaid/Prepaid) Static Energy Meter with enclosure against tender no. MMC/T-NSC-03/0219.
----- Clarification regarding queries received thereof.

A) HPL Power & Electric Limited:

I] RFP related Queries:

Sr. No.	Particulars (Clauses of RFP/Technical Specification)	Query received	MSEDCL Remark
1	INTRODUCTION (Cl. No. 1.2): Objective: These meters are to be installed by replacement at existing residential, commercial, industrial and other category single Phase consumers in 10 IPDS towns of MSEDCL and acquire meter data from the meters of these LT consumers automatically from the remote for 5 years avoiding any manual intervention, monitor important	We request you to kindly provide the consumer details / indexing of 10 IPDS towns where these Meters are to be installed.	The town wise consumer count is provided in RFP. Consumer's details will be provided to successful bidders.
2	SCOPE OF WORK (Cl. No. 2.1.3): Commissioning of Smart Meters: MSEDCL will facilitate for power supply arrangements for DCU install points.	We understand MSEDCL shall provide Power Supply, bear Consumption charges and Installation Location for all DCUs and Accessories. Request you to kindly clarify and confirm the same.	MSEDCL will facilitate for power supply arrangements for DCU install points.
3	SCOPE OF WORK (Cl. No. 2.1.7): The agency shall integrate Data collection software with MSEDCL MDAS, within one month, after award of contract.	Sir, practically 1 month time for integration is too short. We request you to kindly consider at least 3 to 4 months time for integration with MSEDCL MDAS	Not acceptable
4	SCOPE OF WORK (Cl. No. 2.2): Variation of Scope: MSEDCL will have full-undisputed discretionary rights to add or reduce the scope of work/area of interest as per its requirements and agency will have to comply accordingly. Anytime during the contract period, MSEDCL may modify its business process/workflow as per its requirements and agency will have to comply with it, without any adverse commercial implications.	We request you to kindly confine the Tender scope before Bid submission.	Not acceptable

5	QUALIFYING REQUIREMENTS (Cl. No. 2.4 (A) (V)): Qualifying requirement for meter manufacturer: The parent company shall furnish undertaking for accepting responsibility for supplying quality meters as per specifications and execution of the contract on behalf of its India based subsidiary unit who has participated in the tender in Annexure U-I	Annexure U-I is not provided in Tender document. We request you to kindly clarify / provide Annexure U-I	Annexure - I has been made available in RFP.
6	SCOPE OF WORK (Cl. No. 2.5 (I)): TIME OF PERFORMANCE: Delivery and installation period requirement for meter is 10 months. Time period of contract is 70 months from date of LoA by the employer, which includes initial 10 months for removal of existing meters, supply	We request you to kindly consider and extend Installation period for at least 18 to 24 Months from the date of LOA.	Not acceptable
7	SCOPE OF WORK (Cl. No. 2.5 (II)): TIME OF PERFORMANCE: The activity of supply and subsequent installation, commissioning etc. should be uniform throughout the year such that the supply shall be commenced within 2 months from the date of LoA and installation & readings/ FMS activity shall be started in the immediate subsequent month.	we request to kindly accept commencement period as 3 months from the date of LoA.	Not acceptable
8	MILE STONES (Cl. No. 2.7): Bidders may submit their offer for the minimum quantity of any 3 towns, further the bidder may offer different communication technology for different towns.	We would request you to kindly amend the (A) PRICE BID FOR SMART METER of Annexure VI on 'town' basis instead of 'zone'.	Acceptable
9	MILE STONES (Cl. No. 2.7): Bidders may submit their offer for the minimum quantity of any 3 towns, further the bidder may offer different communication technology for different towns. However the L-1 will be arrived as per package cost irrespective of communication technology offered viz (GSM / GPRS / 3G / 4G / PLC / NB-IOT / 6LoWPAN / LoRA)	Sir, here we understand that Bidders can quote for different communication technologies for different towns so, in that case we would like to submit that there is a component level cost difference for different communication technologies asked in the Tender. So, we request you to kindly provide separate Price schedules based on communication technologies.	Not acceptable
10	SPECIAL CONTIONS OF CONTRACT (Cl. No. 3): GUARANTEE: For Meter Box / Enclosure: "The supplier shall have to give 5.5 years guarantee of the Meter Box from the date of supply to MSEDCL."	We understand Box is not in the scope of supply. We request you to kindly remove the 'Box' from the clause.	Meter Box is in scope.
11	SPECIAL CONDITIONS OF CONTRACT (Cl. No. O (2)): LIQUIDATED DAMEGES: In case of a delay in the deliverables (milestones as per below table) within the period stipulated in the agreement, the Bidder shall be liable to pay, at the discretion of the competent authority of MSEDCL, the liquidated	We request you to kindly consider LD only on undelivered portion and not on the total contract value.	Not acceptable

	damages to MSEDCL up to ½ % + GST if applicable per week or part of week on the price, subject to a maximum ceiling of 10% reckoned on the total contract value.		
12	Annexure IV: BANK GUARANTEE FOR BID SECURITY (EMD): WHEREAS [name and address of Contractor] (hereinafter called "the Contractor") has undertaken, in pursuance of Tender No., dated for Supply and installation of LT AC Single Phase 5-30 Amps Smart Energy Meters with 6LoWPAN RF or GSM/GPRS or NB-IOT or 3G/4G based connectivity for communication and	It seems there is a typographical error in mentioning 5-30 Amps. in EMD Bid security Bank Guarantee. We request you to kindly correct the same as Single Phase 10-60 Amp. Smart Meter	Typographical error corrected as 10-60 Amp. Smart Meter.
13	NIT: Estimated Tender Cost: Rs. 160.58 Crores	The Budget for this tender is too low considering the terms and the time frames and the requirements of the tender and technical specifications, therefore the Budget for this tender also needs to be increased.	Not acceptable
14	BILLING AND PAYMENT TERMS (Cl. No. (Q) (a) (i)): Payment against Supply: (i) 50% of the SP meter cost for the supplied lot shall be paid after successful Inspection & delivery of the material at MSEDCL store location.(ii) 40% of the SP meter cost shall be paid after successful Installation & uploading the data on billing system with 1st billing reading of consumer in MSEDCL MDAS system.	We request you to kindly consider the Payment terms as: Payment against Supply: (i) 60% of the SP meter cost including GST for the supplied lot shall be paid after successful Inspection (ii) 40% of the SP meter cost including GST shall be paid after successful Installation. & delivery of the material at MSEDCL store location.	Not acceptable
15	BILLING AND PAYMENT TERMS (Cl. No. (Q) (b)): Payment against Installation: 90% payment towards installation of single phase meter for the installed quantity shall be made after successful Installation & uploading the data on billing system with 1st billing reading of consumer in MSEDCL MDAS system.	Payment against Installation: 100% payment including GST towards installation of single phase meter for the installed quantity (Prorata basis) shall be made after successful Installation & uploading the data on billing system with 1st billing reading of consumer in MSEDCL MDAS system.	Not acceptable
16	BILLING AND PAYMENT TERMS (Cl. No. (Q) (C)): Balance 10% payment against Supply & Installation: The balance 10% payment against the activity (a) and (b) above shall be released after successful completion of the project duration of 5 years.	We request for <u>no retention of balance 10% payment of activity (a) and (b).</u>	Not acceptable
17	BILLING AND PAYMENT TERMS (Cl. No. (Q) (c) (ii)): Payment for FMS / Reading through AMR: Billing by the agency shall be done, purely on per reading basis only i.e. for no. of	We request you to kindly accept the use of Mobile HHT for data transfer to MSEDCL System for Payment and SLA.	Not acceptable

<p>Meter readings downloaded through AMR within reading program declared by the concerned sub-division. No separate charges will be paid for the readings submitted through HHT.</p> <p>BILLING AND PAYMENT TERMS (Cl. No. (Q) (c) (v)): Payment for FMS / Reading through AMR: ... The HHT/reading instrument should be arranged by the bidder at their own cost. No charges will be paid for the readings/billing data submitted through HHT.</p> <p>BILLING AND PAYMENT TERMS (Cl. No. (Q) (c) (vi)): Payment for FMS / Reading through AMR: Penalty is applicable for readings not received through AMR within reading program as per annexure-VIII for SLA.</p>	<p>This is as per as per your clause No. 2.1.4 of Meter Data Downloading of Scope of Work (Pg. No. 5 of 141) i.e Separate Payment shall be made on the successful data transfer through Mobile HHT also.</p>	
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II] Technical Queries:

Sr. No.	Particulars (Clauses of RFP/Technical Specification)	Query received	MSEDCL Remark
1.	<p>Clause No. 3</p> <p>APPLICABLE STANDARDS</p> <p>CBIP- No 304/& CBIP – No 88: Specification for A.C Static Energy Meters (latest amendment) for magnetic influence tests</p>	We request you to kindly amend to read as CBIP-325.	Not accepted
2.	<p>Clause No. 6.34</p> <p>The meter shall be able to disconnect the load in case of exceeding the <u>current limit (105% I_{max})</u> after 1 minute on stabilizing the current.</p> <p>GTP No. 73</p> <p>METER DISCONNECTS LOAD IN CASE OF EXCEEDING CURRENT LIMIT (120% I_{MAX}) AFTER 1 MINUTE ON STABILIZING THE CURRENT (YES/NO).</p>	We request you to kindly clarify and specify the exact requirement of Current Limit.	Accepted. Clause No. 6.34 is modified as "The meter shall be able to disconnect the load in case of exceeding the current limit (120% I _{max}) after 1 minute on stabilizing the current."
3.	<p>Clause No. 6.35.1 (3)</p> <p>COMMUNICATION MODULE :</p> <p>Communication module should push continuously instantaneous parameters (<u>as per clause No. 15.03</u>) to prepaid engine running on prepaid server located at MSEDCL data center.</p>	We request you to kindly amend the clause number mentioned here as '17.03'.	Clause No. 6.35.1 (3) is modified as Communication module should push continuously instantaneous parameters(as per clause No. 17.03 i.e. instantaneous parameters) to prepaid engine running on prepaid server

			located at MSEDCL data center. The interval for pushing instantaneous parameters should be configurable.
4.	<p>Clause No. 15.04</p> <p>ANTI TAMPER FEATURES & TAMPER EVENTS</p> <p>Where neutral is disconnected from the load side or from the supply side or both, the load and supply side, the meter shall disconnect the load from supply side as well as from the load side.</p>	<p>We request you kindly accept either <u>Energy Measurement at Vref, UPF & Proportional Current or Load Disconnection</u> for the Single wire Tamper condition.</p>	Not accepted
5.	<p>Clause No. 15.10</p> <p>ANTI TAMPER FEATURES & TAMPER EVENTS</p> <p>Tamper Indications: To be displayed on LCD display as listed below:</p> <p>a) <u>Represented in Symbols</u></p> <p>1) <u>Magnet</u></p> <p>2) <u>Reverse</u></p> <p>3) <u>Earth load</u></p> <p>4) <u>RTC Fail</u></p>	<p>We request you to kindly accept the manufacturer specific symbols for Tamper indications on LCD alternatively.</p>	Not accepted
6.	<p>Clause No. 16.06</p> <p>MINIMUM CHARACTER SIZE</p> <p>The meter shall have facilities to measure, record and display the parameters as per <u>IS: 15884 / 2010</u> of the latest version.</p> <p>Meter communication shall comply as per <u>IS: 15884 / 2010</u> of the latest version.</p> <p>Clause No. 22.01</p> <p>TYPE TESTS</p> <p>The Smart (Postpaid/Prepaid) meter to be supplied shall be fully type tested for the properties / requirement as per <u>IS: 13779 / 1999</u>.</p>	<p>We request you to kindly amend to read as IS: 16444 Standards.</p>	Not accepted
7.	<p>Clause No. 22.01</p> <p>TYPE TESTS</p> <p><u>external AC / DC (0.2 T AC magnet) magnetic influence tests</u> as per</p>	<p>We request you to kindly amend the clause as 'Except 0.2 T AC Magnet' in line with your specifications clause no.</p>	Accepted. Clause no. 15.06 is modified as under

	CBIP Tech - Report 88 with latest amendments.	15.06 and GTP Sl. No.59. Kindly amend the same.	<p>The meter shall be immune to the magnetic field (DC / Permanent) up to 0.2 Tesla. If the meter accuracy gets affected due to any abnormal magnetic field (AC/DC/ Permanent) more than 0.2 Tesla, then the same shall be recorded as magnetic tamper event with date & time stamping and the meter shall record Energy considering the maximum value current (Imax) at reference voltage & unity power factor.</p> <p>GTP No.59 is modified as under</p> <p>METER MEETS REQUIREMENT OF CBIP TECH. REPORT 88 (AMENDED UP TO DATE) 0.2 TESLA AC MAGNET TEST (YES/NO)</p>
8.	<p>GTP No. 83.0 AN LED FOR POWER ON INDICATION IS PROVIDED(YES/NO).</p> <p>GTP No. 84.0</p> <p>LED PROVIDED FOR POWER ON INDICATION BLINKS DURING COMMUNICATION (YES/NO).</p> <p>Clause No. 16.09</p> <p>DISPLAY INDICATORS</p> <p>The following shall be displayed permanently <u>by LED / LCD</u> as a minimum and shall be visible from the front of the prepaid meter.</p>	<p>We request you to kindly also accept LCD Icons in line with you specifications as per clause 16.09 of technical specification</p> <p>Hence, request you to amend the GTP serial no. 83.0 and 84.0 as LED/LCD icon.</p>	<p>Accepted</p> <p>GTP No. 83.0 is modified as AN LED/LCD FOR POWER ON INDICATION IS PROVIDED(YES/NO).</p> <p>GTP No. 84.0 is modified as under LED/LCD PROVIDED FOR POWER ON INDICATION BLINKS DURING COMMUNICATION (YES/NO).</p>

9.	GTP No. 104 PROVISION FOR LOAD SURVEY FOR 30 MINUTES & <u>FOR LAST 60 POWER ON DAYS FOR SPECIFIED PARAMETERSON FIFO (YES/NO)</u>	We request you to kindly amend the GTP Sl. No. 104.0, Load Survey for '45 Power On Days' in line with your technical specification clause no. 17.04.	Accepted. GTP No. 104 is modified as under PROVISION FOR LOAD SURVEY FOR 30 MINUTES & <u>FOR LAST 45 POWER ON DAYS FOR SPECIFIED PARAMETERS ON FIFO (YES/NO)</u>
10.	GTP No. 104.0 10 NOS. OF SAMPLE METERS <u>AS PER IS: 13779 / 1999 (AMENDED UPTO DATE)</u> WITH IN BUILT GPRS MODEM FOR CONNECTIVITY	We request you to kindly amend to read as IS: 16444(Part1):2015 Standards.	It is GTP No. 115 instead of GTP No. 104. Not Accepted.

B) Genus Power Infrastructures Limited:

I] RFP related Queries:

Sr. No.	Particulars (Clauses of RFP/Technical Specification)	Query received	MSEDCL Remark
1	Q. Billing And Payment Terms: Payment Terms: - 50% against Supply, 40% against 1st billing, 10% after O&M period	50%+100% Taxes against Supply, 40% ex-work 1st billing & 10% ex-works after completion of Installation (Start of O&M) Installation:- 90% against 1st Billing, 10% after O&M period Completion	Not acceptable
2	Annexure-VI price Bid-(A): Annexure-VI price Bid-(A) ---"Quantity offered in No.(Min qty of any one Zone)	Please clarify as in attached Annexure-IX zone is not defined (Only Circle/Town defined)	Details of Zone have been provided in RFP.
3	Annexure-VI price Bid-(B): Annexure-VI price Bid-(B) --->"Quantity offered in No.(Min qty of any three town)	Please clarify as it shall be same as price bid part-A (the bidder will be responsible for Service of Supplied/ Ordered qty only)	The bidder has to provide service for the ordered quantity.

II] Technical Queries:

Sr. No.	Particulars (Clauses of RFP/Technical Specification)	Query received	MSEDCL Remark
1.	Clause No. 6.06 Meter case The base and cover shall be ultra-sonically welded (continuous welding) so that once the meter is manufactured and tested at factory it shall not be possible to open the cover at site except the terminal cover and any non-permanent deformation cannot prevent the satisfactory operation of the	Meter will be ultrasonic welding/ chemical welding break to open design. Please accept the same	Not accepted.

	meter.		
2.	<p>Clause No. 6.14</p> <p>Resistance of heat & fire</p> <p>A push button shall be provided for scrolling the parameters in Alternate Display (On Demand) mode as well as for crediting emergency credit units in the meter as brought out elsewhere in the specification</p>	<p>Push button / Touch button both should be acceptable.</p> <p>Please accept the same.</p>	Not accepted.
3.	<p>Clause No. 6.23</p> <p>The accuracy of the meter shall not be affected with the application of abnormal voltage / frequency generating device such as spark discharge of approximately 35KV. The meter shall be tested by feeding the output of this device to meter in any of the following manner for 10 minutes:</p> <ul style="list-style-type: none"> a) On any of the phases or neutral terminals b) On any connecting wires of the meter (Voltage discharge with 0-10 mm spark gap) c) At any place in load circuit d) At any location of meter body <p>The accuracy of the meter shall be checked before and after application of above device. If meter get affected it should be log the 35KV tamper in its memory.</p>	<p>35 kV test should be perform when meter mounted in enclosure as per field condition.</p>	Not accepted.
4.	<p>Clause No. 6.27</p> <p>The measurement by meter shall not get influenced by injection of High frequency AC Voltage / chopped signal /DC signal and harmonics on the terminals of the meter.</p>	<p>To prevent these tampers meter will be in disconnect condition. Please accept the same.</p>	Not accepted.
5.	<p>Clause No. 15.10</p> <p>Tamper Indications: To be displayed on LCD display as listed below:</p> <ul style="list-style-type: none"> a) Represented in Symbols <ul style="list-style-type: none"> 1) Magnet 2) Reverse 3) Earth Load 4) RTC Fail b) Represented in Words <ul style="list-style-type: none"> 2) Cover Open 3) Other abnormal events (e.g. ESD, NVM fail etc) 4) Error Codes 5) Single wire/Neutral Cut 	<p>Tamper indication will display as per Genus LCD symbols / indications.</p> <p>Please accept the same.</p>	Not accepted.
6.	<p>Clause No. 22.03</p> <p>Jammer test for sample meters shall be carried out for immunity at MSEDCL's</p>	<p>Jammer should perform for sample meter when meter mounted in box as per field condition.</p>	Not accepted.

	Testing Division.		
7.	Annexure-II Display Module	Yeboo should be added.	Not accepted.
8.	Annexure-II Battery	Eternacell, EVE should be added	Not accepted.
9.	Clause No. 6.06 The terminal block shall be made from high quality non-hygroscopic, fire retardant, reinforced polycarbonate (non-Bakelite) which shall form an extension of the meter case.	PBT Should be acceptable due to higher electrical properties & strength. Please accept the same	It is Clause No. 6.07.1 instead of 6.06. Not accepted.
10.	Clause No. 6.07.10 Terminal & terminal block The construction of the meter shall be suitable for its purpose in all respects and shall be given reasonable assurance of continuous performance in all mechanical, electrical and magnetic adjustments. The construction shall be such that the meter is not prone to produce audible noise in use. The meter terminal cover shall be of injection moulded in transparent UV stabilized polycarbonate in a natural transparent colour. Polycarbonate material of only following manufacturers shall only be used: a) GE PLASTICS LEXAN 143A/943AA FOR COVER AND TERMINALCOVER	LEXAN 143R should be acceptable as per IS16444.	Not accepted.
11.	Clause No. 15.02 Reversal of line and load terminals.	Relay will be in disconnecting condition to prevent this tamper. Please accept the same.	Not accepted.

C) M/s TATA Power - DDL:

Sr. No.	Particulars (Clauses of RFP/Technical Specification)	Query received	MSEDCL Remark
1	Qualifying requirement for AMI solution provider: AMI solution provider should have successfully executed at least 2 AMI/AMR projects involving an installation of at least 10,000 meters/modems with successful integration with head end system per Project.	Power Distribution Companies are well versed with the nature of works envisaged under the Smart meters implementation projects. Hence, it is requested to consider the in-house experience of AMR/AMI implementation. In many recent tenders released by other state Discoms like Rajasthan , UP, they have considered the In house AMI/AMR Implementation of Power Discoms	Not acceptable
2	Time of Performance: Removal of existing meters, supply and installation of new Single Phase Smart Meters on consumer	Considering the large number of existing meters to be removed and supply	Not acceptable

	installations and survey, implementation & integration of prepaid solution Delivery is 10 months.	& installation of meters, communication to be covered under the project the total implementation timeline of 10 months is very stringent. It is thus requested to keep the Implementation period as a total of 18 months	
3	Payment against Supply: 40% of the SP meter cost shall be paid after successful Installation & uploading the data on billing system with 1st billing reading of consumer in MSEDCL MDAS system.	In order to reduce the financial burden on bidder and maintain the proper cash flow for the project, it is requested to release the payment in lots (like 10,000 meters) instead of completion of milestone.	Not acceptable
4	Payment Terms: The balance 10% payment against the Supply and Installation shall be released after successful completion of the project duration of 5 years.	Withholding 10% of the payment shall increase the financial burden on the system integrator as the meters OEMs and installation agencies have to be paid upfront on supply and installation. Moreover, since the performance of the installed meters is already being monitored through SLA's, any slippages of SLA shall lead to penalty to the SI.	Not acceptable
5	% age penalty on Price: After the completion of timeline, LD @ 0.5% of committed lot value per week or part thereof with maximum 10% of the contract value may be levied from the bill of the contractor	Considering the large No of meters and the spread of meters in multiple towns the mentioned SLA's are very strict. However, in the interest of the project the SLA levels should be maintained, while the maximum % should be reduced to make the project financially feasible for the prospective bidders.	Not acceptable
6	Treatment of cases where Meter Faulty or damage are attributable to the consumers/Force Majure events /mishandling by Discom.	MSEDCL may like to clarify treatment of cases where Meter Faulty or damage to other assets like Service lines etc are attributable to the consumers/Force Majure events /mishandling by Discom.	Not acceptable
7	Implementation & Integration of prepaid solution	It is understood that only supply of BIS 16444 complaint smart meters capable of functioning in pre	Only modification to BIS 16444 is acceptable.

		paid / post paid mode through configuration at the backend MDMS are part of the scope. Implementation and Integration of any separate pre-paid system shall not be in scope of bidder.	
8	Other Activities: Agency should support AMR implementation for any communication module approved by MSEDCL.	It is understood that bidder shall be responsible for providing BIS 16444 Compliant smart meters under the project along with necessary Web based software for data acquisition. Integration support for any communication module is very generic and shall make the scope very broad. Thus requested to delete this clause.	Not acceptable
9	The bidder should complete field survey and installation of Single Phase Smart Meters in-line with tender specification.	We understand that this clause is applicable only when the communication technology is on RF. Bidder is not required to carry any detailed field survey for the purpose of GPS Coordinate collection, indexing etc	Not acceptable
10	Additional Clause: Any new connections to be released during the engagement period	It is understood that any new connections to be released during the engagement period will be under the scope of MSEDCL and incase the same is in the bidder's scope, bidder shall be suitable compensated for the same	Not acceptable
11	Physical installation of Smart meters for only NSC will be under the scope of MSEDCL.	Kindly clarify the clause and provide the full form of NSC.	NSC stands for New Service Connection
12	Meter Installation activity.	Timely roll out of the project is critical to the project as any delay in the meter installation activity shall affect the revenue realization of the appointed bidder. Hence, in case of any resistance in meter installation due to consumer agitation or employees agitation shall be taken care by Discom and any delay caused shall not be	Not acceptable

		accounted for calculation of penalties.	
13	Space for Storage of Materials	Large quantities of meters shall be replaced under the project and appointed agency shall need to maintain sufficient stock of the meters to be installed during the project implementation period. Making arrangement of Stores at all the locations shall not be financially feasible for the appointed agency.	Meters will be issued from concerned storage location to Agency, for further utilization storage will be in the scope of Agency.
14	Space for Office Establishments	Manpower for field execution of the project shall be stationed at the Town level while manpower for managing the system operations shall be stationed at the MSEDCL. Since, the employees would need to work in closed coordination with the Discom employees, office space for the employees of appointed agency shall be required.	In the scope of Agency.

The RFP and Technical Specifications are amended accordingly.

Chief Engineer [MM Cell]