



MULTAN ELECTRIC POWER COMPANY (MEPCO)

MEPCO Minutes of Pre-Bid Meeting for the Procurement of AMR Energy Meters Against Tender No 56/23 & 57/23 held on 21.12.2022 at 11:00 AM

Sr No	Clause No	Description	Firm's Response	MEPCO Response
1	Tender Notice	Unidirectional but programmable for bidirectional by using optical port, HT/LT Type CT/PT Operated Energy Meter having Accuracy class 0.5S (kWh) and Accuracy Class 1.0 (KVARH)	Accuracy class 1.0 for KVARH is for bidirectional meter only. Unidirectional meter with programmable bidirectional feature will have accuracy class 2.0 for KVARH. Please amend.	Accepted and amended as "Unidirectional but programmable for bidirectional by using optical port/remote, HT/LT Type CT/PT Operated Energy Meter having Accuracy class 0.5S (kWh) and Accuracy Class 2.0 (KVARH)..."
2	Tender Notice	Installation on EPC basis in MEPCO.	<ol style="list-style-type: none"> Please confirm that all the allied material required for installation including mounting hardware/clamps/nut & bolts, PVC tape etc. will be provided by bidder. Please confirm that meters to be installed in series with existing billing meter. Please confirm that MEPCO will provide the PVC cable for series 	<ol style="list-style-type: none"> YES, it shall be bidders' responsibility The AMR Meters will be installed after removing the existing/ old meters (in replacement).The bidder will maintain the excel sheet along with a register (two copies)

connection, load side connection and service drop, if required.

duly signed by bidder's representative) containing the relevant information for replacement of meter like (1) Reference No (2) Customer ID (3) Removed Meter Sr.No. , Make, Manufacturing Year,(4) KWH (T1,T2 & Total) (5) KVARH (T1,T2 & Total) (6) MDI (T1,T2,Total), Cumulative MDI sum (T1,T2,Total) and Reset No. of removed meter and installed AMR meter(7) date& time of replacement (8) any discrepancy like display wash, burnt, opened etc. observed in removed meters (9) newly installed AMR meter Serial No (10) SIM No (11) TELCO,etc.The bidder is required to take the picture of the existing / removed meter containing the KWH reading Meter No. before replacement. The removed meters shall be returned in Lots of 300 Meters each to concerned sub division immediately (along with account No wise list of connection in hard form and excel sheet) for onward submission to M&T offices. Efforts shall be made to hand over the removed meter on daily basis for efficient and smooth reconciliation. The

				<p>bidder shall provide job cards of MCOs containing all above details of meter replaced in batches with maximum 100 meters per batch for manual billing of Smart Meters before bringing it online. The sub division officer will further process the MCO. The sub divisional staff will support the bidder's installation teams / gangs for required support. However, the installation of meter is solely the bidder's responsibility and No serving MEPCO line staff shall be asked or employed by the bidder to install the meter. Meter replacement shall be attempted / scheduled in a way to submit filled MCO before next billing cycle.</p> <p>3. AMR Meter will be installed in place of existing meter hence No PVC will be required.</p>
3	3.1	<p>A bidder must be duly prequalified/enlisted with the MEPCO/PPMC/DISCOs/NTDC/PITC and WAPDA.</p>	<ul style="list-style-type: none"> • Please amend to read as under: "A bidder must be duly prequalified/enlisted with the MEPCO/PPMC/DISCOs/NTDC/PITC and WAPDA in Category M-5 (Subcategories II & III). • As per routine practice, please include following clause: "In case of new entrant, the 	<ul style="list-style-type: none"> • Agreed and Eligibility Criteria Clause 3.1 (b) of IB3 is amended to be read as under "A bidder must be duly prequalified/enlisted with the MEPCO/PPMC/DISCOs/NTDC /PITC/WAPDA in Category M-5 (Subcategories II & III).

			<p>bidder should submit the copy of Educational/Regular Purchase order issued by any DISCOs along with its completion and performance of supplied material in the light of Specification / Instructions/Guidelines issued by Chief Engineer (S&S) NTDC Lahore Letter No. 3187-97 dated 20/10/2015 otherwise your firm will be considered non-Responsive.”</p> <ul style="list-style-type: none"> • We suggest including the following clause: “The bidder must have experience of at least One Project of minimum 10%-meter quantities of complete Lot in which the bidder is participating for Automated Meter Reading / AMI completed in the last Five (05) years in the capacity of supply, installation and integration of MDC with billing systems (similar facility) to any DISCOs of Pakistan. In this regard, the bidder should attach copies of previous Purchase / Work orders and certificates of Satisfactory Performance issued by the respective 	<p>Similarly Special Conditions Clause rr(4) may also be read accordingly</p> <ul style="list-style-type: none"> • Not agreed, In case of new entrant firm having educational order with satisfactory performance against educational order is sufficient for participation in these tenders. • Not agreed
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			Employers.”	
4	Special Conditions c)	Bids having less than 100% of the quantities of tender will not be accepted.	<ul style="list-style-type: none"> Please amend to read as under: “Bids having less than 100% of the quantities of lot will not be accepted.” Please confirm that bidder can participate in one or more lots. 	<ul style="list-style-type: none"> Agreed and clause (c) of special conditions is amended to be read as under. “Bids having less than 100% of the quantities of lot will not be accepted.” Yes, bidder can participate in one or more Lots.
5	Special Conditions f)	Tier-2 certificate will be issued by committee headed by Director (IT) MEPCO whereas Concerned RM M&T, concerned SE (OP) and in-charge AMI cell will be members of the committee, after consultation with PITC once 100% meters are installed and their two successful billing cycles have been performed by the MEPCO using the AMI solution.	Please amend to read as under: “Tier-2 certificate will be issued by committee headed by Director (IT) MEPCO whereas Concerned RM M&T, concerned SE (OP) and in-charge AMI cell will be members of the committee, after consultation with PITC once 10% meters are installed and their first successful billing cycle has been performed by the MEPCO using the AMI solution.”	The amended in the clause is as under: “Tier-2 certificate will be issued by committee, after consultation with PITC, once 80% Whole Current and 50% HT/LT smart energy meters are installed and their two successful billing cycles have been performed by the MEPCO using the AMI solution”...
6	IB 15/ Special Conditions g)	If the bidder does not possess the prototype approval for the offered material according to relevant DDS and IEC standards (all amended to date), if applicable under WAPDA approved specification, the bidder shall have to obtain prototype approval from the office of Chief Engineer (S&S).	Valid prototype approval should be mandatory to expedite the project and reduce the delay to be caused due to prototype testing. Please amend.	MEPCO verdict is firm and final
7	Special Conditions j)	Mechanism for security of data from meter to MDC	As per DDS, meter data is compliant and encrypted as per DLMS/COSEM protocol. Further data security from meter to MDC is ensured by GSM network. Please amend to require	MEPCO verdict is firm and final and vendor will provide the certificate as per PITC format- as under: It's certified that primary and

			DLMS/COSEM certificate only from the bidder in this regard.	derived electrical quantities from MDC schema to UDIL schema will be without any treatment. If any discrepancy is identified the vendor will be held responsible leading to revalidation of UDIL certificate or cancellation of UDIL as per decision taken jointly by DISCO and PITC.
8	Special Conditions k)	Bidder will ensure that date/time of AMR meter will be synchronized with that of MDC and MDC date/time will be synchronized with network time protocol NTP.	Since there is no internet service activated on the server machines, please confirm that NTP Server / GPS clock will be supplied by MEPCO for time synchronization.	MEPCO verdict is firm and final. PITC will provide NTP server for synchronization of date/time of AMR meter with MDC.
9	Special Conditions m)	Bidder is bound to provide read only complete MDC access and will certify the same along with technical bid.	As per UDIL, there is no MDC front-end or GUI required as it only collects the data from the meter and exposes the same as per UDIL. What kind of access is required here? Please confirm.	It was decided that MDC GUI based access of vendors will be available at MDM, authenticity of which, agreed by all the participants.
10	Special Conditions p)	Both Uni/Bi directional bidding quantities shall be printed on name plate of meter separately.	Please amend to read as under: "Both Uni/Bidirectional billing quantities shall be printed on name plate of meter separately."	Agreed
11	Special Conditions q)	Data consumption shall not exceed 30 MB per month in keep-alive mode.	Please amend to read as under: "Data consumption shall not exceed 32 MB per month in keep-alive mode."	MEPCO verdict is firm and final. Data/Packet consumption shall not exceed 30 MB/SIM per month in keep alive mode.
12	Special Conditions s)	Vendor may suggest the hardware to support his quoted number of meters for PITC vetting.	Please confirm that MDC Hardware and all data center related facilities are to be provided by MEPCO.	PITC will provide the facility. And MDC should have the capability to retain minimum 90 days data in its database.
13	Special Conditions	On demand reading should be	• Please confirm if this	• Yes

	x)	retrieved and the response of on-demand reading should not be more than two-minute or any other frequency set by MEPCO.	<p>requirement is for non-keep-alive mode only.</p> <ul style="list-style-type: none"> • Repose time is highly dependent on the network coverage and speed at the time of activity. It is therefore requested to keep such constraints in account while making such evaluations. 	<ul style="list-style-type: none"> • The same is elaborated in detail in clause (z) of special conditions of bidding documents.
14	Special Conditions z)	Retry failure rate should not be more than five times. The timeout for each retry should not be more than 30 seconds.	Please explain this requirement.	MEPCO verdict is firm and final. For further explanation, please refer to bidding document special conditions clause “z”.
15	Special Conditions bb)	System shall be able to identify and report potential system/ meter failures or tampering. (Identify and report missing reads identify and report “stopped” meters, identify and report inconsistent constants, receive signals for tampering or meter removal, automatically generate request for meter investigation and send to the appropriate system as defined in AMI specifications.	This functionality is at MDM’s part. Please delete this requirement.	<p>MEPCO clause shall remain intact as this functionality of MDM is based on occurrence of events at MDC level and events should be as per actual meter responses which should communicate to MDC accordingly.</p> <p>For example</p> <p>i) Genuine signal strength should be provided in instantaneous data packet.</p> <p>ii) Power On/Off, Demand Overload, Contactor Status, etc events should be readily available in MDC as defined in major alarms in UDIL.</p> <p>iii) Billing Quantities Interruptions.</p> <p>iv) Missing Reads</p> <p>In case of any interval missed by meter due to power outage or any other issue, meter will</p>

				connect immediately with MDC after resolution of the issue (irrespective of next interval) and will provide all stored data i.e. Daily Reads, Instantaneous Reads, Monthly Reads, Load Profile, Meter Events, etc of <u>“Exactly Stored Data Time”</u> .
16	Special Conditions cc)	AMR meters will execute the relay command and make the AMR meters into “keep alive mode” the same AMR meter will become into “Non-keep Alive” mode after execution of (individual/Bulk AMR meters) reconnection command.	This functionality is at MDM’s part. Please delete this requirement.	MEPCO clause shall remain intact as this functionality of MDM is based on Execution of commands as well as Change of Mode at meter through MDC/MDM.
17	Special Conditions gg)	Delivery Schedule	Please amend to read as under: “Time for completion for Lot-I to be 300 days and 180 days for Lot-II to be reckoned from the date of issuance of PO or Opening of LC (whichever is later) subject to removal of restriction on imports by the Govt. of Pakistan imposed vide EPD circular No. 11 of 2022 of State Bank of Pakistan, issued on July 05, 2022, which required to seek prior permission from Foreign Exchange Operations Department (FEOD), SBPBSC before initiating transactions for import of goods listed in the enclosed annexure of the circular.	Special Condition clause “gg” is amended and may be read as under: “Completion time for delivery and installation of Whole Current smart meters will be as: <u>For Lot-1:180 days or earlier</u> <u>For Lot-2:180 days or earlier</u> <u>For Lot-3: 150 days or earlier</u> Delivery schedule for supply of LT/HT Smart Meters will be as 50% within 90 days or earlier 50% within 120 days or earlier For Whole Current and LT/HT meters, above schedule will be reckoned from the date of

				issuance of Purchase Order or prototype approval whichever is later.
18	Special Conditions jj) c	The services of the authorized representative are required from the successful vendor till the installation of all purchased meters as well as successful communication with MDM.	This activity should be time bound. Please amend.	<p><u>For Tender No. 56/23 (Whole Current)</u> Installation of smart meters will be the responsibility of successful bidder; however, remote support will be required after installation till the warranty period.</p> <p><u>For Tender No. 57/23 (LT/HT)</u> Smart meters are to be installed by MEPCO; however, remote support will be required till the warranty period.</p>
19	Special Conditions kk)	The reading display parameters in normal mode of three phase, whole, current and LT/HT AMR meters shall be programmed by default by the manufacturer as per proforma attached at page number 76 of bidding documents. Furthermore, SIM information should be displayed on AMR meter display register, i.e., SIM number, SIM ID no. Balance, SIM absent.	This clause is in contradiction with DDS as there is no such provision available in the meters. Please delete this requirement.	Special Condition clause kk of tender documents shall remain intact except displaying of SIM No. and No SIM Balance on LCD of SMART Meters
20	Special Conditions ll)	SIM Location: Meter should be identifiable through telco tower.	Please delete this clause. MEPCO has to take-up this matter with	Special Conditions Clause “ll” be considered as deleted

			TELCOs as SIMs are to be arranged by MEPCO.	
21	Special Conditions mm)	The last communication of AMR meter with MDM should be displayed on meter LCD in normal mode with date and time stamp.	This clause is in contradiction with DDS as there is no such provision available in the meters. Please delete this requirement.	Special condition clause mm of tender documents shall be read as: “The last communication of AMR meter with MDC should be displayed on meter LCD in normal mode with date and time stamp as last quantity in display sequence.”
22	Special Conditions nn)	The voltages and amps of each phase shall also be recorded in load profile of three phase whole current and LT/HT AMR smart energy meters beside existing registers in channel 1 to 4 As per DDS. Which can be downloaded through data retrieval software.	Please confirm that this functionality is required for PC software only.	Yes, this functionality is required for PC software.
23	Special Conditions oo)	SIM allocation to meters (M2M SIMs will be provided by MEPCO) <ul style="list-style-type: none"> • Meter creation on existing MEPCO AMR Application • Data Validation 	<ul style="list-style-type: none"> • Please confirm that SIMs from multiple TELCOs will be provided during installation to ensure the utilization of best available network. • As per UDIL, meter is created on respective vendor software only. Please amend. • What sort of data validation is required, please confirm. 	<ul style="list-style-type: none"> • MEPCO will provide Consumers wise details where AMR Meters are to be installed, the bidder is required to conduct the field survey for best network availability on all meters immediately after issuance of LOI and submit the requirement of desired SIMs to AMI CELL MEPCO and SIMs will be provided accordingly. • Meter creation will be on Vendor MDC Software.

				<ul style="list-style-type: none"> • Data related to consumer, Meter (removed + New) and at MDC.
24	16 Terms of Payment	Payment Criteria	<p>Since there is already performance bond requirement, therefore It is requested to please amend the payment terms to read as under:</p> <ul style="list-style-type: none"> • “100% Payment of the total value of AMI meters on the receipt of meters in the store & issuance of GRN. • 100% Installation testing and commissioning charges will be paid upon installation as and when claimed. • Partial delivery and partial payments are allowed. “ 	<ul style="list-style-type: none"> • Clauses of 16.4 (a, b, c) have been amended as: <ul style="list-style-type: none"> a) “90% payment will be made upon delivery of material” b) “10% payment will be made upon issuance of Tier-2 UDIL Certificate” c) 10% performance guarantee will be released after the issuance of Satisfactory Project Completion/Acceptance Certificate by they committee headed by General Manager (CS) whereas concerned RM (M&T), concerned SE (Op), Manager MM, Manager I.A, Manager (C.A) & Director (IT) will be members. The Project Completion/Acceptance Certificate will be issued on expiry of warranty period, replacement of damaged / defective Smart Energy Meters and obligatory remedial measures, to be taken by the vendor, in the

				<p>light of recommendations of the committee (mentioned in clause “v” of the special conditions) as per warranty clauses, mentioned in GCC & PCC.</p> <ul style="list-style-type: none"> • Clause 16.5, regarding installation charges of Whole Current Smart Energy Meters is amended as under: <ul style="list-style-type: none"> a) “70% payment against installation, testing and commissioning charges will be paid upon installation of smart energy meters, as and when claimed, duly verified by concerned SDO (Op.) and Incharge AMI Cell. b) 30% remaining installation charges will be paid after the issuance of Tier-2 Certificate by the respective Committee.
25	28 Warranty	The warranty shall remain valid for 60 months for whole current AMR energy meters and 24 months for LT/HT smart meters starting from the issuance of Tier-2 UDIL certificate and not from the date of delivery of goods.	Warranty should be reckoned from the date of issuance of GRN as issuance to Tier-2 certificate is beyond bidder’s scope of work / control and can be delayed for an indefinite period. Please amend.	As per relevant clauses of DDS.
26	GCC Sub Clause 18.1	The supplier shall provide a performance security of 10% of	As per SOP, being the local prequalified/ registered firm/	GCC Sub Clause 18.1 shall be read as:

		contract price. The performance security shall be dominated in the following amounts and currencies: Pak Rupee. The performance security in the shape of bank draft/ bank guarantee from any scheduled bank in the favor of CEO MEPCO on prescribed form valid for 60 months from the issuance of Tier-2 UDIL certificate of Whole Current AMR Energy meters and 24 months from the issuance of Tier-2 UDIL certificate of LT/HT AMR Smart Energy Meters	manufacturers, performance security should be 5% of the contract price. Also, the bank guarantee is issued for complete PO and not item wise having different validity periods. Please amend.	The supplier shall provide a performance security of 10% of the quoted price against the smart meters only, for each lot. The performance security shall be in Pak Rupee. The performance security shall be in the shape of bank draft/ bank guarantee from any scheduled bank in favor of CEO MEPCO on prescribed form, valid for 60 months for Whole Current Smart Energy meters and 24 months for LT/HT Smart Energy Meters, after completion of delivery period/tier-2 certificate issuance.
27	GCC Sub Clause 27.1	2% per month or a fraction thereof subject to a maximum of 10% of the contract price except	Please amend to read as under: "2% per month or a fraction thereof subject to a maximum of 10% of the value of un-delivered goods except"	Agreed
28	Invitation for Bids	---	In view of the unpredictable circumstances prevailing in the country with regard to exchange rate, we would appreciate your including the clause for following adjustment in price according to instructions already issued by PEPCO on 16.10.2008 due to exchange rate of U.S. dollar versus Pak rupee.	As per Clause "ee" of special conditions of bidding documents: The bidder will quote the prices including all taxes and duties and excluding 17% GST/PST on FCS basis. The offered price shall not be escalated for any reason what so ever.
29	Invitation for Bids	---	Please confirm that meter sample is required to be submitted with the bid.	Sample is not required

30	Special Conditions cc	Disconnection due to load limiting exceeding Sanctioned load Minimum two different load thresholds against different tariffs (peak / off-peak) shall be programmed to activate disconnection reconnection automatically by the meter.	This requirement is contradicting with UDIL, please amend.	As per relevant clauses of UDIL and DDS
31	PCC Sub Clause 28.5	The damaged material under warranty will be repaired by the manufacturer free of cost within 60 days of receipt irrespective of the condition that it is damaged due to MEPCO fault or manufacturer fault under intimation to Chief Engineer MI PPMC Lahore.	As per specification, meter is covered against all kinds of manufacturing defects only and will be repaired / replaced in case of any fault. However, any damage occurred due any reason other than manufacturing fault is not covered under warranty. Please amend.	Agreed
32		Force majeure Clause	<p>Force Majeure</p> <p>Please include the below standard clause as is being adopted by all DISCOs:</p> <p>The right of MEPCO to terminate the contract, or to claim penalty or liquidated damages shall be subject to the following circumstances, provided as a result of all or any of these events there has been delay in the performance of the contract by the manufacturer or supplier, or the contract has become incapable of being performed:</p> <ul style="list-style-type: none"> a) Act of God. b) Act of state, war or any act of the enemy. c) Lock outs, Riots or Civil commotion. 	Agreed

			<p>d) Injunction granted by a court of competent jurisdiction not resulting from any fault of the Manufacturer or Supplier.</p> <p>e) Restriction imposed by the Government on the import of any material relating to the manufacture of goods.</p> <p>f) Port delays due to bunker age or lighter age.</p> <p>g) Diversions of supplier by the carrier without any fault or knowledge of the Manufacturer or supplier.</p> <p>Provided further that the Manufacturer or Supplier has given notice to the MEPCO within 14-days of the happening of any such event.</p>	
33	Financial Proposal, Bid Schedule	Bid Security of fixed amount is required which must be attached in Financial Proposal	As the bid security of fixed amount is required, it should be attached with Technical Proposal.	Agreed
34	Page # 27 Clause 37.1 Bidding Data	10% Performance Security of the Contract Price is required.	In normal tenders of MEPCO and other DISCOs 5% Performance Security is required. Kindly amend accordingly.	Shall remain same as per tender documents.
35	Financial Proposal, Bid Schedule & Special Conditions Page 33 Clause ii) & jj)	Installation Charges required to be filled along-with meter rate separately. Whereas clause ii indicate that AMR meters will be installed by MEPCO.....	Both clauses are contradictory, kindly clarify.	Installation charges required to be filled along with meter rate separately upto extent of Whole Current AMR Energy Meters. Whereas for LT/HT Meters only meter rate is required to be filled without installation charges as the LT/HT AMR Meters are to be

				installed by MEPCO.
36	Technical Proposal Bid Schedule	Tender quantities / Scope of Work has been divided in 3 lots whereas in last point of technical proposal ,it has been mentioned that bid having partially quoted quantities less than 100% of the total quantities will not be accepted.	Kindly clarify the bidder has to quoteallthe3lotsseparatelyor quote in anyone lot.	Bidder will quote in each lot separately for 100 % quantity.
37	Page No. 57 Clause 16, GCC Terms of Payment	In Tender Documents Payment will be made as under: a) 80% upon delivery of material b) 10% upon Tier-2 UDIL certificate c) 10% will be retained as retention money.	In the presence of Performance Security 10% retention money is unnecessary, kindly amend the payment criteria as 90% upon delivery and 10% upon Tier-2 UDIL certificate.	<ul style="list-style-type: none"> • Clauses of 16.4 (a, b, c) have been amended as: <ul style="list-style-type: none"> a) “90% payment will be made upon delivery of material” b) “10% payment will be made upon issuance of Tier-2 UDIL Certificate” c) 10% performance guarantee will be released after the issuance of Satisfactory Project Completion/Acceptance Certificate by the committee headed by General Manager (CS) whereas concerned RM (M&T), concerned SE (Op), Manager MM, Manager I.A, Manager (C.A) & Director (IT) will be members. The Project Completion/Acceptance Certificate will be issued on expiry of warranty period,

				<p>replacement of damaged / defective Smart Energy Meters and obligatory remedial measures, to be taken by the vendor, in the light of recommendations of the committee (mentioned in clause “v” of the special conditions) as per warranty clauses, mentioned in GCC & PCC.</p> <ul style="list-style-type: none"> • Clause 16.5, regarding installation charges of Whole Current Smart Energy Meters is amended as under: <ul style="list-style-type: none"> a) “70% payment against installation, testing and commissioning charges will be paid upon installation of smart energy meters, as and when claimed, duly verified by concerned SDO (Op.) and Incharge AMI Cell. b) 30% remaining installation charges will be paid after the issuance of Tier-2 Certificate by the respective Committee.
38			Bidder’s technical qualification	Shall remain same as per tender

	Single Stage – Two Envelop Bidding procedure	Title Page	criteria is not mentioned such as detail of completed AMI projects in Pakistan of sizeable quantity and possession of UDIL certificate from PITC with in last two years.	documents criteria.
39	Page No. 28 Clause f) sub-clause b) Special Conditions	UDIL Performance Testing Tier -2 Certificate	A long list of members of the committee has been mentioned. UDIL performance testing tier-2 certificate should be issued after 1 st successful billing b'/ PITC.	Shall remain same as per tender documents criteria.
40	Page No. 29 Clause j) Special Conditions	As the communication security	PITC is fully responsible for the security of the communication, bidder is not responsible for providing the mechanism for the security of data.	MEPCO verdict is firm and final and vendor will provide the certificate as per PITC format- as under: <i>“It's certified that primary and derived electrical quantities from MDC schema to UDIL schema will be without any treatment. If any discrepancy is identified the vendor will be held responsible leading to revalidation of UDIL certificate or cancellation of UDIL as per decision taken jointly by DISCO and PITC.”</i>
41	Page No. 30 Clause m) Special Conditions	Bidder is bound to provide read only complete MDC access... ..	Kindly explain to whom the read only software is to be provided PITC or MEPCO.	It was decided that MDC GUI based access of vendors will be available at MDM, authenticity of which, agreed by all the participants.

42	Page No. 30 Clause p) Special Conditions	Both uni/bi-directional billing quantities shall be printed...	Due to space constraints on face plate, only very few important windows can be printed.	<p>amended to be read as under: “Both Uni/Bidirectional billing quantities shall be printed on name plate of meter separately.” As per below mentioned format</p> <table border="1"> <thead> <tr> <th colspan="4">IMPORTANT DISPLAY REGISTERS</th> </tr> <tr> <th colspan="2">Uni-Directional</th> <th colspan="2">Bi-Directional</th> </tr> <tr> <th>Register#</th> <th>ITEM</th> <th>Register#</th> <th>ITEM</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>kWh (Rate A)</td> <td>6</td> <td>kWh IMPORT (Rate A) →</td> </tr> <tr> <td>6</td> <td>kWh (Rate B)</td> <td>7</td> <td>kWh EXPORT (Rate A) ←</td> </tr> <tr> <td>8</td> <td>kVARh (Rate A)</td> <td>8</td> <td>kWh IMPORT (Rate B) →</td> </tr> <tr> <td>9</td> <td>kVARh (Rate B)</td> <td>9</td> <td>kWh EXPORT (Rate B) ←</td> </tr> <tr> <td>14</td> <td>CUM MDI (Rate A)</td> <td>12</td> <td>kVARh IMPORT (Rate A) →</td> </tr> <tr> <td>15</td> <td>CUM MDI (Rate B)</td> <td>13</td> <td>kVARh EXPORT (Rate A) ←</td> </tr> <tr> <td>16</td> <td>Reset No.</td> <td>14</td> <td>kVARh IMPORT (Rate B) →</td> </tr> <tr> <td>17</td> <td>Reset Date & Time</td> <td>15</td> <td>kVARh EXPORT (Rate B) ←</td> </tr> <tr> <td>18</td> <td>Instantaneous kW</td> <td>24</td> <td>CUM MDI IMPORT (Rate A) →</td> </tr> <tr> <td></td> <td></td> <td>25</td> <td>CUM MDI EXPORT (Rate A) ←</td> </tr> <tr> <td></td> <td></td> <td>26</td> <td>CUM MDI IMPORT (Rate B) →</td> </tr> <tr> <td></td> <td></td> <td>27</td> <td>CUM MDI EXPORT (Rate B) ←</td> </tr> <tr> <td></td> <td></td> <td>28</td> <td>Reset No.</td> </tr> <tr> <td></td> <td></td> <td>30</td> <td>Instantaneous kW IMPORT →</td> </tr> <tr> <td></td> <td></td> <td>31</td> <td>Instantaneous kW EXPORT ←</td> </tr> </tbody> </table>	IMPORTANT DISPLAY REGISTERS				Uni-Directional		Bi-Directional		Register#	ITEM	Register#	ITEM	5	kWh (Rate A)	6	kWh IMPORT (Rate A) →	6	kWh (Rate B)	7	kWh EXPORT (Rate A) ←	8	kVARh (Rate A)	8	kWh IMPORT (Rate B) →	9	kVARh (Rate B)	9	kWh EXPORT (Rate B) ←	14	CUM MDI (Rate A)	12	kVARh IMPORT (Rate A) →	15	CUM MDI (Rate B)	13	kVARh EXPORT (Rate A) ←	16	Reset No.	14	kVARh IMPORT (Rate B) →	17	Reset Date & Time	15	kVARh EXPORT (Rate B) ←	18	Instantaneous kW	24	CUM MDI IMPORT (Rate A) →			25	CUM MDI EXPORT (Rate A) ←			26	CUM MDI IMPORT (Rate B) →			27	CUM MDI EXPORT (Rate B) ←			28	Reset No.			30	Instantaneous kW IMPORT →			31	Instantaneous kW EXPORT ←
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14	CUM MDI (Rate A)	12	kVARh IMPORT (Rate A) →																																																																									
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43	Page No. 31 Clause aa) Special Conditions	In case of development of MEPCO’s own MDM in future...	Please intimate that which standard will be followed / adopted by MEPCO for the development of MEPCO’s own MDM	DLMS/COSEM																																																																								
44	Page No. 31 Clause bb) Special Conditions	System shall be able to identify and report	MDM Feature	<p>MEPCO clause shall remain intact as this functionality of MDM is based on occurrence of events at MDC level and events should be as per actual meter responses which should communicate to MDC accordingly.</p> <p>For example i) Genuine signal strength should be provided in instantaneous data packet. ii)Power On/Off, Demand Overload, Contactor Status, etc events should be readily available in MDC as defined in major alarms</p>																																																																								

				<p>in UDIL.</p> <p>iii) Billing Quantities Interruptions.</p> <p>iv) Missing Reads</p> <p>In case of any interval missed by meter due to power outage or any other issue, meter will connect immediately with MDC after resolution of the issue (irrespective of next interval) and will provide all stored data i.e. Daily Reads, Instantaneous Reads, Monthly Reads, Load Profile, Meter Events, etc of <u>“Exactly Stored Data Time”</u>.</p>
45	Page No. 32 Clause cc) sub-clause c. Special Conditions	MEPCO shall have provision to enable and disable	MDM Feature	MEPCO clause shall remain intact as this functionality of MDM is based on Execution of commands as well as Change of Mode at meter through MDC/MDM.
46	Page No. 33 Clause Special Conditions kk)	SIM information should be display on AMR meter display register... ..	These requirements are over and above to DDS-60:2020, DDS- 98:2011 and UDIL requirements. Kindly delete these clauses.	Special Condition clause kk of tender documents shall remain intact except displaying of SIM No. and No SIM Balance on LCD of SMART Meters
47	Page No. 33 Clause Special Conditions mm)	The last communication of AMR meter with MDM should be display on meter LCD in normal mode with date &time stamp... ..		Shall remain same as per tender documents criteria.
48	Page No. 33 Clause Special Conditions ll)	SIM Location	Telco responsibility	Special Conditions Clause “ll” considered deleted
49	Page No. 33 Clause nn)	The voltages &s of each phase	This requirement is over and	This functionality is required for

	Special Conditions	shall also be recorded in load profile	above DDS specification, kindly delete it.	PC software only.
50	Page No. 61 Clause 26 GCC			<p>The following clause be considered as part of GCC/PCC sub clause 26.2 of the bidding documents</p> <p><u>Final Inspection</u></p> <p>Inspection of the material will be carried out jointly at bidder's premises by Chief Engineer (M.I) PPMC Lahore or his authorized representative along with MEPCO representative. Notice in writing for inspection of goods shall have to be given to C.E (M.I) PPMC Lahore under intimation to this office 15 days prior to the due date. All reasonable facilities as provided in the specification or followed by the industry or trade in general shall have to be afforded to the inspecting officer by you at your expenses including boarding and lodging etc for carrying out inspection. The inspection charges @ 0.5% (non-reimbursable) of the cost of material will be paid by you to Chief Engineer (M.I) PPMC Lahore while offering the material for inspection.</p>
51	Page No.72 Clause 26.2 PCC		Inspection clauses are not clear that who will conduct the routine and sample testing.	
52	Special conditions	Bidder is bound to provide Read only	This clause is against the scope of	It was decided that MDC GUI

	(m)	Complete MDC access and he will certify the same along Technical Bid	UDIL Standards and the bidder is bound to expose the data as per defined UDIL standards. However, if mandatory then same can be provided.	based access of vendors will be available at MDM, authenticity of which, agreed by all the participants.
53	Special conditions (S)	Vendor may suggest the hardware to support his quote No of meters for PITC vetting	Whether the vendor is supposed to only suggest the IT hardware or need to add its cost also along with the meter's cost	PITC will provide the facility. And MDC should have the capability to retain minimum 90 days data in its database.
54	Special conditions (v)	In case of number if muted meters exceed more than 2 % as pointed out by incharge of AMI Cell MEPCO/PITC, an investigation shall be conducted into the matter and reasons other than declared scheduled communication outage by the network provider, transformer damage, scheduled load shedding, cable breakdown and ERO etc. Shall be on bidder's liability	Please also exclude the areas with jammers and remote areas with having no coverage of any Telco from the bidder's liability	Shall remain same as per tender documents, however enquiry committee will consider to exclude these observation from bidder's liability if found genuine.
55	Special conditions (aa)	The MDM interface of PITC shall be used. In case of development of MEPCO 's own MDM in future, the integration of Supplied MDC will be carried out by the bidder within the warranty period of MDC	Kindly confirm the warranty period of MDC and from when it will be started.	The bidder(s) provided MDC software will have perpetual license and will be bound to upgrade with the latest versions of UDIL
56	Special conditions (cc).c	MEPCO shall have provision to enable and disable the feature (remote disconnect/remote connect for both scenarios locally by meter software and remotely by headend system. Further to this in case of disconnection command execution individual/bulk AMR meters, the AMR meters will execute the relay	there is no such feature defined in UDIL " in case of disconnection command execution individual/bulk AMR meters, the AMR meters will execute the relay command and make the AMR meters into "keep alive " the same AMR meter will become into Non-keep alive mode after execution of	Shall remain same as per tender documents.

		command and make the AMR meters into "keep alive " the same AMR meter will become into Non-keep alive mode after execution of (individual /bulk AMR meters reconnection command	(individual /bulk AMR meters reconnection command " .We suggest to use keep alive mode in meters to avoid any kind of such situation.	
57	Special conditions kk	Sim information should be display on AMR meter display register, like sim number, Sim ID, no balance, Sim absent	For the meter display register, such features are over and above DDS and UDIL specifications. The Sim balance can be checked from telco portals and the feature is part of the telco system. Furthermore, such features fall in the scope of Sim provider.	Special Condition clause kk of tender documents shall remain intact except displaying of SIM No. and No SIM Balance on LCD of SMART Meters
58	Special conditions ll	Sim location: Meter should be identifiable through Telco tower	this feature is related to Telco, nothing to do with meter manufacturer and falls under the scope of sim provider.	Special Conditions Clause "ll" considered deleted
59	Special conditions mm	The last communication of AMR Meter with MDM is should be displayed on meter LCD in normal mode with date and time stamp	Meter's last communication time with MDM is already available in MDM. Its availability in the normal mode of meter is over and above DDS and UDIL standards. Also as per UDIL, meter does not communicate with MDM directly	Special condition clause mm of tender documents shall be read as: "The last communication of AMR meter with MDC should be displayed on meter LCD in normal mode with date and time stamp as last quantity in display sequence."
60	Special Condition cc) Page 32	b. Disconnection due to Load Limiting/Exceeding Sanctioned Load: Minimum two different load thresholds against different tariffs (peak and off peak) shall be programmed to activate disconnection/reconnection automatically by the meter and time between disconnection and	As mentioned the procure meters should comply with the specification DDS 98:2011. As per relevant DDS specifications, only one threshold is allowed to be configured in the meter to disconnect the relay due to overload, instead of multiple thresholds against the different	As per relevant clauses of UDIL and DDS

		reconnection shall also be programmable. Meter shall have the capability to change load thresholds locally and remotely.	tariffs. This requirement is over and above the DDS specification.	
61	MDC IT hardware		Kindly confirm the warranty period of MDC and IT hardware	The bidder(s) provided MDC software will have perpetual license and will be bound to upgrade with the latest versions of UDIL
62	Location of data center		kindly confirm location of data center and location where IT hardware will be installed and also confirm who will provide internet link, dedicated drop and Static IP	PITC will provide IT hardware and relevant pre-requisites
63	Special conditions rr (12)	The audited financial "stand alone" statements (Balance sheet along with notes, profit and Loss accounts and cash flow statements) for the last three (03) years shall be submitted by the bidder which shall be greater than the total quoted price.	Please clarify that the said amount is the total turnover of last three years.	The clause "rr" (12) is amended to be read as under: The bidder shall submit Audited Financial Standalone statements (Balance Sheet, Profit & Loss Account and Cash Flow Statements for the last 03 years). Total turnover for last 03 years should be equal or greater than total quoted price.
64	Experience		Kindly include the specific experience required for the eligibility of the bidder.	Shall remain same as per tender documents criteria
65	GCC - 16.4 (a)	80% Payment will be made upon delivery of material.	100 % payment should be made upon delivery as the goods have a warranty period and for performance, the UDIL Tier-2 certificate is also to be obtained. As performance security will be	• Clauses of 16.4 (a, b, c) have been amended as: a) "90% payment will be made upon delivery of material"

			provided so there should be no further retention money.	
66	GCC - 16.4 (b)	10% Payment will be made upon issuance of Tier-2 (UDIL Certificate		b) "10% payment will be made upon issuance of Tier-2 UDIL Certificate"
67	GCC - 16.4 (C)	10% amount be retained as retention money and it will be released after issuance of Satisfactory Project Completion / Acceptance Certificate by the Committee headed by General Manager (CS) whereas Concerned RM M&T , Concerned S.E (OP), Manager MM, Manager I-A ,Manager (C.A) & Director (I. T) will be members, on expiry of warranty period and replacement of damaged / defective AMR Smart Energy Meters as per warranty clause mentioned in GCC &PCC		c) 10% performance guarantee will be released after the issuance of Satisfactory Project Completion/Acceptance Certificate by the committee headed by General Manager (CS) whereas concerned RM (M&T), concerned SE (Op), Manager MM, Manager I.A, Manager (C.A) & Director (IT) will be members. The Project Completion/Acceptance Certificate will be issued on expiry of warranty period, replacement of damaged / defective Smart Energy Meters and obligatory remedial measures, to be taken by the vendor, in the light of recommendations of the committee (mentioned in clause "v" of the special conditions) as per warranty clauses, mentioned in GCC & PCC.
68	GCC - 16.5	Payment against installation charges will be as under: a) 100% payment will be issued against installation charges after issuance of Tier-2 UDIL Certificate.	90% of the installation charges should be paid upon installation of the meters. And keep 10% of the installation charges for issuance of Tier-2 UDIL Certificate.	• Clause 16.5, regarding installation charges of Whole

				<p>Current Smart Energy Meters is amended as under:</p> <p>a) "70% payment against installation, testing and commissioning charges will be paid upon installation of smart energy meters, as and when claimed, duly verified by concerned SDO (Op.) and Incharge AMI Cell.</p> <p>b) 30% remaining installation charges will be paid after the issuance of Tier-2 Certificate by the respective Committee.</p>
69	SPECIAL CONDITIONS (b)	<p>b) UDIL Performance Testing Tier-2 Certificate: Tier-2 Certificate he issued by committee headed by Director (I.T) whereas Concerned R.M M&T , Concerned S.E (OP) & Incharge AMI Cell will be members Of the committee, after consultation with PITC once 100% meters are installed and their two successful billing cycles have BEEN performed BY the MF.PCO using the AMI solution.</p>	UDIL Performance Testing Tier-2 Certificate should be issued upon one successful billing cycle with 80% of the installation.	<p>The amendment in the clause is as under: "Tier-2 certificate will be issued by committee, after consultation with PITC, once 80% Whole Current and 50% HT/LT smart energy meters are installed and their two successful billing cycles have been performed by the MEPCO using the AMI solution" ...</p>
70	PCC	<p>GCC Sub Clause 18.1 The Supplier shall provide a Performance Security of 10% of the contract Price.</p>	as per established norms & practices, the performance security should be 5%	Shall remain same as per tender documents criteria
71	BID SCHEDULE	Unidirectional but programmable for bidirectional by using optical port,	There is no DDS Specification is prevailing for KVARH Accuracy Class	Accepted and amended as "Unidirectional but programmable

		HT/LT type, CT/PT operated 3-Phase, 4 wire, 3-Elements, 3x63.5/110V,3X230/400V, 5/10Amp, 50 Hz, having Accuracy Class 0.5s (kWh) & Accuracy Class 1.0 (KVARH), programmable multi-tariff-TOU AMR Smart energy meter with PTA compliant 3G communication module, must be <i>downward compatible</i> to 2G without changing the SIM ,for remote metering system.	1.0 for HT/LT type, CT/PT operated meters, we suggest MEPCO to procure meters as per the Specification DDS-50:2007, 98:2011 & 110:2012 (Amended to-date)	for bidirectional by using optical port/remote, HT/LT Type CT/PT Operated Energy Meter having Accuracy class 0.5S (kWh) and Accuracy Class 2.0 (KVARH)....”
72	Special Condition [page 28]	f) b)UDIL PerformanceTesting Tier-2Certificate: Tier-2 Certificate will be issued by committee headed by Director (I.T) MEPCO whereas Concerned R.M M&T, Concerned S.E(OP)& Incharge AMI Cell will be members of the committee, after consultation with PITC once 100% meters are installed and their two successfully billing cycles have been performed by MEPCO using the AMI solution.	1. The basic idea for the Tier-2 Certificate was to analyze the integration between MDC and MDM so we suggest that Tier-2 Certificate shall be issued on installation of 50% meters and their successful 1 st billing cycle. 2. Please also specify database backup duration of UDIL?	The amendment in the clause is as under: 1. “Tier-2 certificate will be issued by committee, after consultation with PITC, once 80% Whole Current and 50% HT/LT smart energy meters are installed and their two successful billing cycles have been performed by the MEPCO using the AMI solution”... 2. PITC will provide the facility. And MDC should have the capability to retain minimum 90 days data in its database.

73	Special Condition [page 29]	j)... As the communication security is critical between the AMR energy meter and MDC because the data may be gone through public network where the security and the integrity of the data could be compromised even in private network there are possibility of intrusions that can corrupt and manipulate data.... The successful bidder will ensure the appropriate security scheme implemented for whole network. The bidder will be required to provide documents mentioning the mechanism for security of data from meter to mdc.	We assume that MEPCO and PITC are going to provide MDC hardware, allied IT hardware; SIM's and secure Internet connection between PITC NOC to Telco and then how bidder can ensure the security scheme implemented for the whole network? Bidder can only provide DLMS certification which ensures secure communication between meters and MDC.	MEPCO verdict is firm and final and vendor will provide the certificate as per PITC format- as under: <i>"It's certified that primary and derived electrical quantities from MDC schema to UDIL schema will be without any treatment. If any discrepancy is identified the vendor will be held responsible leading to revalidation of UDIL certificate or cancellation of UDIL as per decision taken jointly by DISCO and PITC."</i>
74	Special Condition [page 30]	m)Bidder is bound to provide Read Only complete MDC access and he will certify the same along with Technical Bid	As per the UDIL concept Bidders are providing Driver Software to communicate with meters and no MDC is required. GUI is involved in the MDM part and all read/write operations are supposed to be done through MDM but if MEPCO want to procure the MDC then please add the MDC in the "BID Schedule" so that bidder can add the price accordingly.	It was decided that MDC GUI based access of vendors will be available at MDM, authenticity of which, agreed by all the participants.
75	Special Condition [page 30]	p) AMR meter will be Unidirectional but programmable for bidirectional by using optical port, meter readers should be able to record reading manually for whatever the reasons may be (com issue) & in whatever	1. Chief Engineer S&S has specified Green Name plate for Bi-directional meters so it is suggested that MEPCO shall specify the quantity of required bi-directional meters at the time of issuance of PO so that	amended to be read as under: "Both Uni/Bidirectional billing quantities shall be printed on name plate of meter separately." As per below mentioned format

		<p>the mode (unidirectional or bidirectional) meter is programmed, with ease & in accordance with printed name plate. Both Uni/Bi directional bidding quantities shall be printed on name plat of meter separately.</p>	<p>bi-directional meters could be supplied with green name plate with required billing quantities printed on their name plate.</p> <p>2. If above is not acceptable then please provide the format/specimen having both Uni/Bi directional quantities so that same can be printed on available space on the meter name plate as space on the Name Plate is very limited to print both Uni/bi-directional billing quantities.</p>	<table border="1"> <thead> <tr> <th colspan="4">IMPORTANT DISPLAY REGISTERS</th> </tr> <tr> <th colspan="2">Uni-Directional</th> <th colspan="2">Bi-Directional</th> </tr> <tr> <th>Register#</th> <th>ITEM</th> <th>Register#</th> <th>ITEM</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>kWh (Rate A)</td> <td>6</td> <td>kWh IMPORT (Rate A) →</td> </tr> <tr> <td>6</td> <td>kWh (Rate B)</td> <td>7</td> <td>kWh EXPORT (Rate A) ←</td> </tr> <tr> <td>8</td> <td>kVARh (Rate A)</td> <td>8</td> <td>kWh IMPORT (Rate B) →</td> </tr> <tr> <td>9</td> <td>kVARh (Rate B)</td> <td>9</td> <td>kWh EXPORT (Rate B) ←</td> </tr> <tr> <td>14</td> <td>CUM MDI (Rate A)</td> <td>12</td> <td>kVARh IMPORT (Rate A) →</td> </tr> <tr> <td>15</td> <td>CUM MDI (Rate B)</td> <td>13</td> <td>kVARh EXPORT (Rate A) ←</td> </tr> <tr> <td>16</td> <td>Reset No.</td> <td>14</td> <td>kVARh IMPORT (Rate B) →</td> </tr> <tr> <td>17</td> <td>Reset Date & Time</td> <td>15</td> <td>kVARh EXPORT (Rate B) ←</td> </tr> <tr> <td>18</td> <td>Instantaneous kW</td> <td>24</td> <td>CUM MDI IMPORT (Rate A) →</td> </tr> <tr> <td></td> <td></td> <td>25</td> <td>CUM MDI EXPORT (Rate A) ←</td> </tr> <tr> <td></td> <td></td> <td>26</td> <td>CUM MDI IMPORT (Rate B) →</td> </tr> <tr> <td></td> <td></td> <td>27</td> <td>CUM MDI EXPORT (Rate B) ←</td> </tr> <tr> <td></td> <td></td> <td>28</td> <td>Reset No.</td> </tr> <tr> <td></td> <td></td> <td>30</td> <td>Instantaneous kW IMPORT →</td> </tr> <tr> <td></td> <td></td> <td>31</td> <td>Instantaneous kW EXPORT ←</td> </tr> </tbody> </table>	IMPORTANT DISPLAY REGISTERS				Uni-Directional		Bi-Directional		Register#	ITEM	Register#	ITEM	5	kWh (Rate A)	6	kWh IMPORT (Rate A) →	6	kWh (Rate B)	7	kWh EXPORT (Rate A) ←	8	kVARh (Rate A)	8	kWh IMPORT (Rate B) →	9	kVARh (Rate B)	9	kWh EXPORT (Rate B) ←	14	CUM MDI (Rate A)	12	kVARh IMPORT (Rate A) →	15	CUM MDI (Rate B)	13	kVARh EXPORT (Rate A) ←	16	Reset No.	14	kVARh IMPORT (Rate B) →	17	Reset Date & Time	15	kVARh EXPORT (Rate B) ←	18	Instantaneous kW	24	CUM MDI IMPORT (Rate A) →			25	CUM MDI EXPORT (Rate A) ←			26	CUM MDI IMPORT (Rate B) →			27	CUM MDI EXPORT (Rate B) ←			28	Reset No.			30	Instantaneous kW IMPORT →			31	Instantaneous kW EXPORT ←
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76	<p>Special Condition [page 30]</p>	<p>U) MDC should be able to support retrieval of scheduled metering data as per programmed /configurable interval (e.g., 30 minutes) for AMR Meters. AMR meters would be declared 'muted' if last successful read was before 48-hours. Number of such muted meters shall not be more than 2% at any point upto the warranty period within the system. MDC should be able to retrieve missing data from meters after restoration without compromising system performance also issues regarding error in data or missing data shall be treated as meter mute.</p>	<p>As the SIMs has to be provided by MEPCO/PITC then how the bidder could be made responsible for the muted meters?</p> <p>Please elaborate what does MEPCO means by "error in data" or "missing data" which will be treated as meter mute.</p>	<p>MEPCO will provide Consumers wise details where AMR Meters are to be installed subsequently the SIMs will be provided on the basis of bidder's field survey for best network availability on all meters.</p> <p>Missing Read means Missing of schedules and on demand data. Error in data means incomplete/wrong data receiving at MDC. This will be checked through MDM as vendor's MDC will be available at MDM.</p>																																																																								
77	<p>Special Condition [page 31]</p>	<p>x) On demand reading could be retrieved and the response time of On Demand reading should not be</p>	<p>Response time of on Demand reading, depends on many factors like time delay in delivery of wakeup</p>	<p>The same is elaborated in detail in clause (z) of special conditions of</p>																																																																								

		more than two minute or any other frequency set by MEPCO.	SMS to Meter, Telco coverage in the area where meter is installed and number of tries/attempts initiated by meter to connect with the MDC server etc. so practically it is not possible for the Bidder to guarantee the response time and to cater all real-time constrains, it is suggested to keep response time 10 minutes.	bidding documents.
78	Special Condition [page 31]	aa) The MDM interface of PITC shall be used. In case of development of MEPCO own MDM in future, the integration of supplied MDC will be carried out by the bidder within the warranty period of MDC.	As MDC/Driver software will be already UDIL compliant so there will not be any issue if new MDM follow same protocols and architecture.	DLMS/COSEM
79	Special Condition [page 31]	bb) System shall be able to identify and report potential system/ meter failures or tampering (Identify and report missing reads, Identify and report "stopped" meters, Identify and report inconsistent constants, receive signals for tampering or meter removal, automatically generate request for meter investigation and send to the appropriate system as defined in AMI specifications.	Please define the criteria and limits to identify the below tampering so that all bidders follow same logic/algorithms and confirm compliance of their Meter and MDC accordingly. i. Stopped Meters ii. inconsistent constants Receive signals for tampering or meter removal	Criteria and limits are as under: Stopped meter- if meter voltage and current elements are working properly but meter's billing quantities i.e KWH, KVARH and MDI KW are stopped due to any reason. Inconsistent Constants- If meter's internal multiplying factor is changed due to any reason then its inconsistent constant will be changed.
80	Special Condition [Page 33]	ii) All procured AMR meters will be installed by MEPCO under the supervision of authorized representative of successful vendor.	Do MEPCO intends to install AMR meters by themselves or through Bidder as mentioned in Price Schedule? Please confirm.	<u>For Tender No. 56/23 (Whole Current)</u> Installation of smart meters will be the responsibility of successful

				<p>bidder, however, remote support will be required after installation till the warranty period.</p> <p><u>For Tender No. 57/23 (LT/HT)</u> Smart meters are to be installed by MEPCO; however, remote support will be required till the warranty period.</p>
81	Special Condition [page 33]	kk) Furthermore, SIM information should be display on AMR meter display register i.e., SIM number, SIM ID, no balance, SIM absent.	<p>1. SIM number cannot be readable through meter, Telco itself assign/bind a SIM number with the particular SIM-ID/CCID.</p> <p>2. SIM ID length could be 18 to 22 digits but normally Meter display resolution is 8 digits so it is not possible to display it on meter display.</p> <p>Please elaborate how can meter display “No Balance” and “SIM absence”?</p>	<p>1. Special Condition clause kk of tender documents shall remain intact except displaying of SIM No. and No SIM Balance on LCD of SMART Meters</p> <p>2. As decided, right most eight (08) digits of SIM ID be displayed on the meter LCD</p>
82	Special Condition [page 33]	ll) SIM location: Meter should be identifiable through TELCO tower.	It is TELCO’s domain to identify the location of meter and meter manufacture cannot do it. Please remove this requirement.	Special Conditions Clause “ll” be considered as deleted
83	Special Condition [page 33]	mm)The Last communication of AMR Meter with MDM should be display on meter LCD in normal mode with date and time stamp.	Meter can only communicate with the MDM, please replace word MDM with MDC. Secondly please add this item in normal mode window in the list of display items in TOU meter, page 76.	Special condition clause mm of tender documents shall be read as: “The last communication of AMR meter with MDC should be displayed on meter LCD in normal mode with date and time stamp as last quantity in display sequence.”

84	Special Condition [page 33]	oo) iii) Meter creation on Existing MEPCO AMR application (Bidder Responsibility)	Is the MEPCO AMR application is MDM? If it is other than MDM then please describe what is the integration mechanism between MDC and MEPCO AMR applications?	Meter creation will be through vendors MDC software
85	General Conditions Contract [page 57]	of 16.4 Payment against material will be issued as under. a). 80% payment will be made upon delivery of material. b). 10% Payment will be made upon issuance of Tier-2 UDIL Certificate. c). 10% amount will be retained as retention money and it will be released after issuance of Satisfactory Project completion/ acceptance certificate by the committee headed by General Manager (CS) whereas Concerned RM M&T, Concerned S.E (OP), Manager MM, Manager I.A, Manager (C.A) & Director (I.T) will be members, on expiry of warranty period and replacement of damaged/ defective AMR Smart Energy Meters as per warranty clause mentioned in GCC & PCC.	100% payment of energy meters should be paid on delivery at regional Store as MEPCO will have Performance Bond of Bidders with them.	Clauses of 16.4 (a,b,c) have been amended as: a) "90% payment will be made upon delivery of material" b) "10% payment will be made upon issuance of Tier-2 UDIL Certificate" c) 10% performance guarantee will be released after the issuance of Satisfactory Project Completion/Acceptance Certificate by the committee headed by General Manager (CS) whereas concerned RM (M&T), concerned SE (Op), Manager MM, Manager I.A, Manager (C.A) & Director (IT) will be members. The Project Completion/Acceptance Certificate will be issued on expiry of warranty period, replacement of damaged / defective Smart Energy Meters and obligatory remedial measures, to be taken by the vendor, in the

				<p>light of recommendations of the committee (mentioned in clause “v” of the special conditions) as per warranty clauses, mentioned in GCC & PCC.</p> <ul style="list-style-type: none"> • Clause 16.5, regarding installation charges of Whole Current Smart Energy Meters is amended as under: <ul style="list-style-type: none"> a) “70% payment against installation, testing and commissioning charges will be paid upon installation of smart energy meters, as and when claimed, duly verified by concerned SDO (Op.) and Incharge AMI Cell. b) 30% remaining installation charges will be paid after the issuance of Tier-2 Certificate by the respective Committee.
86			<p>Who will provide ATB, CT’s, Cables, and mounting Frame etc. Please confirm so that Bidders could evaluate its cost impact to include in Financial Bid.</p>	<p>As explained in scope of work, only Whole Current AMR Smart Energy Meters are to be installed by the successful bidder in place of existing three phase meter therefore CTs, ATB & LT Cable will not be required for installation of Whole Current AMR Meter by the bidder. Remaining Whole Material including mounting frame, etc, required for installation as per</p>

				approved design will be responsibility of successful bidder.
87	Warranty	Clause 28.3, Page 62	Warranty period shall start upon delivery of Goods to MEPCO Store as per practice in vogue.	As per relevant clauses of DDS
88	Clause (gg) of Special Conditions [page 32]	Delivery Schedule	The delivery date is quite tight particularly given the recent foreign exchange issues, restrictions from State bank on opening of LC and installations of meters is also part of work. Please amend it as 50 % within 180 days or earlier and remaining 50 % quantity within 270 days or earlier.	Special Condition clause “gg” is amended and may be read as under: “Completion time for delivery and installation of Whole Current smart meters will be as: <u>For Lot-1:</u>180 days or earlier <u>For Lot-2:</u>180 days or earlier <u>For Lot-3:</u> 150 days or earlier Delivery schedule for supply of LT/HT Smart Meters will be as 50% within 90 days or earlier 50% within 120 days or earlier For Whole Current and LT/HT meters, above schedule will be reckoned from the date of issuance of Purchase Order or prototype approval whichever is later.
89	Technical	Validity of Tender: 120 Days	Validity of Tender should be	Validity of Tender shall be 90 days

	Proposal / Financial Proposal		maximum 60 days keeping in view the hike of prices of raw material over the time.	
90	Technical Proposal / Financial Proposal	Validity of Bid Money: 150 Days	The validity of Bid Money should be maximum 90 days as per reduced bid validity.	The validity of Bid Money shall be 120 days
91	Clause (f) of Special Conditions (Page 28)	The LOI will be issued to most advantageous bidder. The successful bidder has to submit PITC UDIL compliance requirement for Tier-1 Certification to PITC within 20 days of issuance of LOI and obtain UDIL compliance Tier-1 Certificate from PITC within 30 days (from the submission of compliance requirement for Tier-1(extendable if both parties agreed), on latest PITC version applicable at the time of issuance of LOI.	Please amend as "The successful bidder has to submit PITC UDIL compliance requirements for Tier-1 Certification to PITC within 20 days of issuance of LOI and PITC will issue UDIL compliance Tier-1 certificate within 30 days from the submission of compliance requirements for Tier 1 on latest PITC version at the time of issuance of LOI.	Shall remain same as per tender documents criteria
92	Clause (ee) of Special Conditions (Page 32)	The bidder will quote the prices including all taxes and duties and excluding 17% GST on FCS Basis. The offered price shall not be escalated for any reason what so ever.	The price escalation formula is constitutional requirement in procurement of material and it is according to PPRA Rule 23 (4), read with SRO 805 (1)/2008 Section 3, PEC Standard Bidding Documents dated 11-06-2007 harmonized with PPRA Rules, in accordance with ECNEC decision dated 12-11-2007, conveyed by Planning Division dated 12-02-2008 followed by letter dated 24-12-2009 and WAPDA Letter dated 25-08-2009, in pursuance to provisions to PEC Standard Bidding Documents, ECC Decision dated 11-06-2004, PEPCO	Shall remain same as per tender documents criteria

			letter dated 23-01-2008 and decision of BOD MEPCO dated 29-12-2008. Accordingly, the Price / Exchange Rate adjustment formula may please be incorporated in the tender documents.	
93	Sr. No. 8 Clause(rr) of Special Conditions (Page 36)	Supply record of the firm regarding AMR Meters with MEPCO/DISCOs/PPMC/PITC/K. E against educational/regular P.O(s) as per Performa attached on page 57 of bidding documents. Previous performance of the firm regarding AMR meters with MEPCO/DISCOs/PPMC/PITC/K.E will be taken in view while evaluating the bid.	Firms should be asked to submit the copies of existing valid prototype approval along with a UDIL Certificate not older than one year and education / regular purchase order issued by any DISCO along with completion and performance of supplied material in the light of specification / instruction / guidelines issued by Chief Engineer (S&S) NTDC. Previous performance should be taken into account and firm having no valid prototype approval and educational order with successful performance should be asked to go for an educational order to seek prototype approval and satisfactory field performance for such regular purchase orders.	Shall remain same as per tender documents criteria

94	<p>Clause (gg) of Special Conditions (Page 32)</p>	<p>Delivery Schedule</p>	<p>Please amend it to read as under: “The schedule will be reckoned from the issuance date of Purchase Order or date of opening of import L/C” as restriction are being imposed by the Government of Pakistan vide Notification /EPD Circulation letter # 11 on dated 5th July 2022 which is out of our control and comes under Force Majeure.</p>	<p>Special Condition clause “gg” is amended and may be read as under:</p> <p>“Completion time for delivery and installation of Whole Current smart meters will be as:</p> <p><u>For Lot-1:</u> 180 days or earlier <u>For Lot-2:</u> 180 days or earlier <u>For Lot-3:</u> 150 days or earlier</p> <p>Delivery schedule for supply of LT/HT Smart Meters will be as 50% within 90 days or earlier 50% within 120 days or earlier</p> <p>For Whole Current and LT/HT meters, above schedule will be reckoned from the date of issuance of Purchase Order or prototype approval whichever is later.</p>
95	<p>Clause (g) of Special Conditions (Page 29)</p>	<p>If the Bidders does not process the prototype approval for the offered material.....</p>	<p>Bidder having no valid / expired Prototype Approval should be considered as new entrant and be recommended for educational order as per CE (S&S) NTDC Letter No. 3187-97 dated 20-10-2015.</p>	<p>Shall remain same as per tender documents criteria</p>
96	<p>Clause No. 37.1 Bidding Data (Page 27)</p>	<p>Standard form and amount of performance security acceptable to the purchaser</p>	<p>Performance Security should be 5% of the Contract price as per practice of all DISCOs.</p>	<p>Shall remain same as per tender documents criteria</p>

97	Clause 16.5 (a) General Conditions of Contract (Page 57)	100% payment will be issued against installation charges after issuance of Tier-2 UDIL Certificate	100% payment of installation charges should be issued on installation instead of linking it with Tier-2 UDIL certificate	As clarified above

	-signed-	-signed-	-signed-	
	Asst Manager (Proc) Distribution MEPCO H/Q Multan (Co Member)	Deputy Manager (Proc) Distribution MEPCO H/Q Multan (Co Member)	Asst Manager (M&T) 2nd MEPCO Ltd Multan (Co Member)	
	-signed-	-signed-	-signed-	
	Director (Proc) Distribution MEPCO H/Q Multan (Member)	Director (IT) MEPCO H/Q Multan (Member)	Manager Finance(CP&C) MEPCO H/Q Multan (Member)	
	-signed-	-signed-	-signed-	
	Regional Manager (M&T) 2nd MEPCO Ltd Multan (Member)	Manager (I.A) MEPCO H/Q Multan (Member)	Chief Engineer (P&E) MEPCO H/Q Multan (Convenor of the Committee)	