

## Clarifications regarding Pre-Bid Questions: Tender No PITC/G-224(32)/07-2019

Sr.	Questions	Clarifications
1	Meters should be which class? (According to Section E and Clause 9 (a) it will be 1 class) In Annexure B LOT A they ask for class 0.5	The accuracy class 0.5s test is required in light of Letter issued by CE(D&S) NTDC, Lahore No. 3692/CED&S/2184 dated 22-08-2013 (IEC 62053 for accuracy test)
2	5 year experience require for meters relate or specific smart meters relate or HT smart meters related?	Please refer to clause 7.1(vi) and section 7.3 : Technical Evaluation Criteria for LOT-A, bidders eligibility criteria is 3 years AMR meters supplies and services experience
3	What type of supervision will be provided by DISCO?	The installation of meters at feeders will be carried out as per prevailing SOP through P&I job card. The respective DISCOs will issue the schedule of installation and rest all logistic arrangements will be made by the vendor.
4	UDIL developed by PITC is for MDC and MDM integration and have no relation with meter. So it should be deleted. However compliance of MDC with MDM through UDIL may be obtained.	In this AMR tender, vendors are required to provide meters along with software driver (meter data communicator) compliant with UDIL specifications as published on PITC official website. The integration of data is the responsibility of PITC.
5	In WAPDA purchase order 1984,( conditions forming part of the purchase order, clause number 12) To recover from you the liquidated damages levied at the rate of two percent (2%) per month or part thereof subject to a maximum of ten percent (10%) by the Consignee. The liquidated damages shall be recovered only for the stores supplied late or not supplied except where un-delivered stores held up the use of other. So, amend your clause accordingly 5.1	The liquidated damages clause 5.1 may not be amended and remain valid as it is in line with PPRA rules.
6	Payment of meters and installations will be made 100 percent?	As per payment clause 6.1(a) for LOT-A and 6.1(b) for LOT-B, 100% payment will be made within 30 days from the date of receipt of invoice along with complete documents.
7	What is standard of MDC which already implement in PITC NOC?	The vendor shall provide meters along with communication driver software as per Universal Data Integration Layer (UDIL) specifications to be downloaded from PITCs official website www.pitc.com.pk
8	In Pakistan ,all smart meters design on DLMS standard ,in which many functions , OBIS and encryption are manufacture specific so it's not possible to all manufactures meter can communication and 100% compliant with single specific manufacture MDC plz clarify?	Meter along with software driver should be UDIL compliant
9	Technical evaluation LOT AMI experience, This clause shows that you want to give this award to one company. So this of marks shows that Experience of single disco is same as Prototype approval required. So one disco should count full marks.	Please refer to 7.3(2) which states that AMI meters supply and service experience with DISCOs will be weighted as each DISCO = 1.25
10	What are the production capacities marks distributions?	The production capacity per month criteria is as under: a) Single phase meters >= 75,000 meters b) Three phase, AMR meter >= 15,000 meter
11	Passing marks for technical evaluation Lot A should be >60	Please refer to clause 7.2(1), bidder will be declared technically qualified if score of technical factors >= 70%
12	Project cost is less then of the Revenue demanded. If we say maters cost is 25000, then project cost is 65 million. So that clause should be revised and make same as project cost.	Please refer to 8.2(ii), to award a contract, bidder/members of JV (jointly) has to demonstrate its/their availability to at least amount equal to ninety percent (90%) of the total Contract price
13	Will experience of any kind of AMR will be considered as similar project	Please refer to clause 7.1(vi) and section 7.3 : Technical Evaluation Criteria for LOT-A, bidders eligibility criteria is 3 years AMR meters supplies and services experience
14	Who will be responsible for the SIM management and activation?	Pre-configured SIMS will be provided by PITC for communication via APN during installation.
15	When the SIMs will be provided during manufacturing, installed & sealed in production or during installation?	
16	We suggest to provide 3G SIMs for fast and better communication where 3G Coverage available.	The meters should have GSM/GPRS communication module as per DDS or higher
17	There any UDIL specification for meter published by PITC? , because recently PITC published UDIL specification version3 provide pathway of communication between MDC and MDM, not between meter and MDC. It's mentioned in clause 2.1.2:General Scope in UDIL Release 3"Communicate with the multiple MDCs on defined intervals/schedule for exchange of data packet including meter profiles, grid profiles, alerts, commands and to store the acquired data in the intermediate database."	The latest UDIL specification published on PITC website will hold. Besides, for AMR meters, a specific checklist as subset of UDIL specifications No. PITC Tender AMR G-224(32)07-2019 CHECKLIST 91020981 is attached.
18	Under Bidders eligibility, it is written that the manufacturer office should be in Lahore and Rawalpindi/Islamabad: Ø What if the office is only in one of the city? Please clarify Ø In Evidence of Eligibility form only Rawalpindi/Islamabad? Please clarify.	Please refer to clause 7.3 LOT-A and LOT-B mandatory factors which will be used for the technical qualification of bidders.
19	Pg 1. Section 1 Can any vendor participate in any Lot?	Yes, vendor may participate in lot A or lot B or both; however, evaluation criteria for both lots as per clause 7.3 will be applicable.
20	Pg 15. Section 6.1(b) Please add upfront mobility charges of 30% of the total cost of tender?	No advance payment shall be made.
21	Pg 18. Section 7.4 (Sr # 1) Remove previous AMR Meter installation as Mandatory clause. So that it's the level playing field for everyone and anyone with relevant staff can participate in it?	The installation of AMR meters is a specialized job which requires relevant staff; however, previous AMR experience will be an added advantage. The mandatory clause stands amended.
22	Please provide detail of the SLA, call logging procedure, guaranteed response time, availability of alternate equipment machine. (Section –B Clause 3.6.4, sub clause iii)	The call response time will be within 24 hours (working days) for the replacement of faulty or installation of new meters. The remaining sections of SLA will be as per DDS and mutual agreement with consignee.
23	Timeline for the delivery is not realistic because bidder needs to take fresh prototype of meter compliance to Tender requirement of 0.5s Class so please amend the delivery period as minimum two month after date of Prototype approval.( Section –C Clause 4.1(Page No.14) Penalty timelines should be in accordance with above question no.3. ( Section –C Clause 5.1 (Page No.14))	PITC will sign rate contract initially valid for one year with the successful bidder upon prototyping by Design S&S. The respective DISCOs will place purchase order in light of signed rate contract and delivery schedule will be applicable from the date of issuance of purchase order.  The liquidated damages clause 5.1 may not be amended and remains valid as it is in line with PPRA rules.
24	What will be cost for the UDIL certificate? And Please share the SOP to obtain UDIL certificates? ( Section –D Clause 7.3 (Page No.17))	For this particular tender, UDIL certificate is 100,000 PKR cost. The vendor will be asked to deploy their MDC and Meter at PITC testing facility. Software and hardware resources required for this deployment will be provided by PITC. The UDIL compliance sheet will be issued within one week.
25	Is international experience will be considered for this clause? ( Section –D Clause 7.3 sub clause V (Page No.17))	International AMI experience is accepted.
26	Is PITC consider the additional features in Meter only or both Meter and driver software? ( Section –D Clause 7.3 sub clause Vi (Page No.17))	The additional features refer to both meters and/or driver software.
27	As per Annexure-B PITC intends to purchase HT type CT & PT operated Meters along with Driver software compliance with UDIL then why PITC wants to integrate new HT meters with existing MDC already functional at PITC? ( Section –F Clause 9 (Page No.21)	The vendor is required to supply AMR meters as per Annexure-B along with driver software in compliance with UDIL specifications published on PITC's official website. The integration of data is the responsibility of PITC.
28	· Accuracy class of HT Type CT & PT operated meter are defined in the DDS-50 2007 class-1 for kWh & Class-2 for kVARh. Also in tender document mentioned accuracy class 1 in the section-F (clause 9, page No. 21). Please confirm do PITC need Accuracy Class 1 as per DDS or Accuracy Class 0.5s for kWh is typo error, please confirm. · Please also elaborate what do you mean by Meter Configuration kit? Is it PC software to configure the meter if yes then please list down what type of configuration PITC want to configure? · Please elaborates that MDC software which is already installed in PITC VM will also accommodate these 2050 HT Types Meters? Secondly please clarify who will be responsible for the Internet connectivity's, IT hardware and Server machines? (Annexure-B (Page No.22))	The accuracy class 0.5s test is required in light of Letter issued by CE(D&S) NTDC, Lahore No. 3692/CED&S/2184 dated 22-08-2013 (IEC 62053 for accuracy test).  Meter configuration kit referes to PC software to configure meter.  PITC will provide internet, software amd hardware resources for the deployment of meter data communicator / driver software. Vendor will be required to deploy single instance of meter data communicator / driver software at PITC for potential target 2050 meters.
29	· Will Soft copy of the Note-1 activity will be enough or hard Copy also required?  · We assume that already installed CT's and PT'S will work for the Newly installed meter but if successful bidder found any defects during installation then PITC will replace defective CTs/PTs. Please confirm? (LOT-B)	The P&I job card as per SOP will be filled and duly signed by the committee as proof of installation of AMR meter at feeder. In case, if existing CT's and PT's for the feeder where AMR meter is to be installed, are found defective, the same will be replaced by the consignee/DISCO.

<p>*Reference *Section D - Evaluation Criteria - 7.3. Technical Evaluation Criteria for Lot-A Sr. No. V (pg 17);* it states that :  **"Technical Responsiveness of Quoted Item(s) A List of Clients (other than WAPDA/PEPCO/PITC/DISCOs/NTDC) to whom the bidder has done or been doing business during last 3 years along with their Names, Addresses, Phone Numbers".*</p> <p>*It is not specified here that it should be SIMILAR ITEM'S business.*  *Please Clarify.*</p> <p>*2. *Reference *Section D - Evaluation Criteria - 7.1. Bidder's Evaluation Criteria Sr. No. viii (pg 16); *it requires submission of :  **"A list of technical expertise and qualified maintenance engineers/staff to handle the hardware maintenance task efficiently along with their qualification "**  *and its allocated marks are 10 from scoring sheet in pg 17.*  *Kindly specify benchmarks / scoring Methodology for Key personnel required. (i.e Number &amp; **Qualification **of required personnel ?)*</p>	<p>This refers to the clients with whom bidder has been doing business (AMR meters) during last three years</p> <p>Score segregation is as under (LOT-A):  a) Qualified Technical Staff certified with principal  &gt; 3 years = 1 points (each)  &lt; 3 years = 0.5 points (each)  b) Qualified Technical Staff with exp.  &gt; 3 years = 0.5 point (each)  &gt; 1 year &lt; 3 years = 0.2 point (each)</p> <p>Score segregation is as under (LOT-B):  &gt; 3 years = 5 point (each)  &gt; 1 year &lt; 3 years = 3 point (each)</p>
<p>30 Annexure B Page 22 Lot-A  HT type CT &amp; PT operated, 3 phase, 4 wire, 3 element, 3x63.5/110V, 5/10 Amp, 50 Hz, Accuracy Class 0.5s -Energy Meters along with internally mounted GSM/GPRS Communication Modules for remote metering system conforming to DDS-50: 2007 and DDS-98: 2011(DDS-110:2012) amended to date and Software Drivers compliant with UDIL.  Meter configuration KIT will be provided by vendor  Kindly explain what is your understanding about "Meter Configuration Kit". What items are included in the kit? What are the licensing requirements of this kit?</p>	<p>The meter configuration kit is PC software for meter configuration and all software and hardware requirements for its installation/deployment will be provided by PITC.</p>
<p>31 Kindly clarify if "Software Drivers compliant with UDIL" means MDC (Meter Data Collector) compliant to UDIL?</p>	<p>The software driver referred in this document is meter data communicator /collector with additional layer of UDIL compliant with specifications published at PITC's official website www.pitc.com.pk.</p>
<p>32 Kindly clarify if other associated items of MDC such as Database, Web Interface, etc. are also required to be quoted along-with the meters.  As per our understanding, in Lot A hardware items (meters) and software items (Driver software, Meter configuration KIT) are combined. Ideally hardware and software items should be mentioned / required as separate lots / items for competitive bidding.</p>	<p>This tender includes supply of HT type CT &amp; PT operated AMR meters at feeders, as per Annexure B, along with driver software which is UDIL compliant as well as PC software kit for meter configuration.</p>
<p>33 Please clarify whether the licensing requirements for MDC and associated software are only for the required numbers of meters i.e. 2050 or otherwise.</p>	<p>All meters procured under this rate contract must be handled by the driver software on single instance at PITC.</p>
<p>34 Annexure B  Page 22 and Annexure C Page 23  Project Brief: (third paragraph)  In order to provide continuous support and extend the LDI project , 2050 GSM/GPRS enabled HT Type, AMR Energy Meters are required for current and future needs of 10 DISCO's which will be installed on newly energized/bifurcated 11kV Incoming and Outgoing feeders .....moreover AMR meters data must be compliant to latest UDIL specifications developed by PITC for multi-vendor compliance    As we understand that the required meters are to be installed in 10 DISCOs along-with already deployed LDI solution that has separate software for each DISCO.    Kindly clarify whether 10 new separate UDIL compliant software driver/MDC solutions (01 for each DISCO) are required.</p>	<p>The successful vendor will be required to install one software driver instance at PITC for communication with all AMR meters to be installed within this rate contract validity period. The software driver must be UDIL compliant. A UDIL checklist No. 91020981 Release 4 is prepared for this AMR tender that will serve the basis for UDIL certificate.</p>
<p>35 As per our understanding the compliance of UDIL is required for MDC and not for meters. Kindly explain.</p>	<p>The vendors will provide software driver which should be UDIL compliant.</p>
<p>36 As per our understanding MDM (Meter Data Management) software is mandatory for complete integration with UDIL. If PITC is using any MDM, kindly provide its details.</p>	<p>The integration or usage of data is the responsibility of PITC. The vendors are required to supply HT AMR meters as per specifications laid in Annexure-B, along with UDIL compliant software driver.</p>
<p>37 AMR meters data must be compliant to latest universal data integration layer (UDIL) specification developed by PITC for multivendor compliance.  There is contradictions in UDIL and AMR meter data mentioned in DDS-50 specification. Many items required in the UDIL such as  * Meters compliant to DDS-50 shall contain at least 2 channels of load profile however UDIL mentioned a comprehensive list of almost 90 quantities in load profile data structure in section 3.1.4.  * Activation and De-Activation of Optical Port is required in UDIL whereas there is no such requirement in DDS-50 Please clarify how compliance to UDIL AMR meters data can be provided against the DDS-50 specification.</p>	<p>The checklist for UDIL compliance No. 91020981 Release 4 is issued which will serve as the basis for UDIL certification. Please refer to section 3.3.1(iv) ..... Any conflicting value in DDS document will be superseded by PITC Tender Document.</p>
<p>38 Annexure B  Page 22 Lot-B Under Note # 1 Bullet # 6  Meter installation with UDIL Compliance As per our understanding there is no any direct link between meter installation and UDIL, kindly clarify.  It is requested to kindly clarify / amend the above mentioned clauses.</p>	<p>The LOT-B refers to meters installation only.</p>
<p>39 As all the operations including manufacturing, installation &amp; O&amp;M services can be managed through single office, it is suggested to remove the clause. It will escalate the cost of project without any added benefit. <b>2.3.1 (viii)</b></p>	<p>Please refer to clause section 7.3 : Technical Evaluation Criteria for LOT-A, mandatory factors, which are required to be fulfilled for being technically qualified.</p>
<p>40 Forms to be filled under Annexure F and Annexure G of tender document have no relevance with DDS specifications. Please explain this requirement. <b>3.3.1 (iv)</b></p>	<p>Clause 3.3.1(iv) may be read as Forms available in DDS Document (Annexure E), need to be filled in by the vendor. Any conflicting value in DDS document will be superseded by PITC Tender Document.</p>
<p>41 Please confirm that the bidder must participate in both lots. <b>3.5.1 (iii)</b></p>	<p>The bidder may participate in both or any one of the lots.</p>
<p>42 Please amend to read as "Vendor will have to provide the proof of prototype submission within 30 days after issuance of LOL." <b>3.6.1</b></p>	<p>Proof of prototype submission will be provided by vendor within 15 days from the issuance of LOI as per clause 3.6.1.</p>
<p>43 Prototype approval is subjected to availability of CE (S&amp;S's) representative and time slot at AWC Wah for EMC testing therefore is it not at bidder's part to ensure approval within 60 days. It is suggested to delete the clause. <b>3.6.1</b></p>	<p>Vendor is required to provide prototype and UDIL certificates within 60 days from the date of submission of prototype to Design S&amp;S.</p>
<p>44 · Please share the draft SLA for review  · Is the response time for Installation or O&amp;M services? What is the expected response time? <b>3.6.4 (iii)</b></p>	<p>The call response time will be within 24 hours (working days) for the replacement of faulty or installation of new meters. The remaining sections of SLA will be as per DDS and mutual agreement with consignee.</p>
<p>45 Please amend to read as "Within 120 days (in Consignee stores as per address mentioned in purchase order) from date of issuance of purchase order or prototype approval whichever is later: however, in case of importable equipment to be shipped from abroad, delivery period can, however be allowed up to 150 days." <b>4.1 (1)</b></p>	<p>Not agreed</p>
<p>46 Please mention the exact consignee store for evaluation of logistics cost. <b>4.1 (2)</b></p>	<p>The exact store locations will be mentioned in the purchase orders issued by respective DISCOs.</p>

47	Please share the detailed installation drawing showing the dimensions of the steel fixture, glands, wiring diagram, installation place etc. for costing and share the same with end customer to avoid any conflict at the time of installation. <b>4.1 (3)</b>	
48	<ul style="list-style-type: none"> <li>We recommend M2M SIMs.</li> <li>We recommend taking all Telco's on board to pick and choose the one with best coverage at installation site.</li> <li>We recommend 100MB data package on each SIM.</li> <li>We recommend making a dedicated APN/VPN for this project to ensure data security.</li> <li>We recommend HLS for meters to communicate on public network</li> </ul> <b>4.1 (4)</b>	<p>Noted</p> <p>Noted</p> <p>Noted</p> <p>Noted</p>
49	Please confirm that all the required servers, operating system, firewall, switches, rack, backup power supply, AC, patch cables etc. shall be provided by PITC. <b>4.1 (5)</b>	The PITC will provide all software and hardware resources.
50	Please amend to read in line with the delivery period as suggested at Sr. No. 8. <b>5.1</b>	Not agreed
51	<ul style="list-style-type: none"> <li>Please delete the requirement of GRN, Joint inspection report &amp; warranty certificate submission with invoice of installation of meters.</li> <li>Please confirm the procedure for verification of number of meters installed.</li> <li>Please confirm that partial payments are allowed for meter installation.</li> </ul> <b>6.1 (b)</b>	<p>The payment clause as per clause 6.1(b) is amended as comprising of following documents:</p> <ul style="list-style-type: none"> <li>i) Invoice in triplicate having NTN.</li> <li>ii) Job card duly signed by the committee.</li> <li>iii) Meter communication certificate issued by PITC</li> <li>iii) Sales Tax Invoice (if not exempted) or attach exemption certificate.</li> <li>iv) Non-payment certificate.</li> </ul>
52	Please confirm the minimum required response time. Please confirm if the damaged meter to be replaced with a new meter or the same will be repaired. Please confirm the procedure for repair of damaged meter <b>7.1 (xii)</b>	The call response time will be within 24 hours (working days) for the replacement of faulty or installation of new meters. The remaining sections of SLA will be as per DDS and mutual agreement with consignee.
53	No prototype certificate is issued for DDS-98 & DDS-110. Also, the meter type mentioned in Annex B is not according to DDS50:2007, so there is no prototype approval is readily available for this product therefore it cannot be submitted with the bid, please remove this clause. Since this is a new product, CE Q&I may ask for type test of meters (which is exactly same as prototype testing) during sampling inspection which will further delay the delivery of meters to PITC at least by 3 months. It is therefore suggested to clearly mention in the PO that type testing shall not be performed on this PO for in-time completion of the project. <b>7.3 (i)</b>	<p>Agreed</p> <p>PITC will suggest to DISCOs for considering the delay caused due to type test while issuing purchase order.</p>
54	Please confirm that PKR 100 million is total cost of projects executed in last 3 years other than DISCOs. <b>7.3 (v)</b>	Yes
55	How many additional features will be awarded full marks? <b>7.3 (vi) ii</b>	1 feature = 1 mark
56	Please share the breakup of number of meters to be installed in each DISCO/Grid station/SPP/PPP/SHPS with location and other necessary information for costing <b>Section F 9</b>	Total Estimated quantity of AMR meters is 2050 across all DISCOs. Actual quantities will be ordered by respective DISCOs upon execution of the rate contract by PITC.
57	DDS-50:2007 lays down specification for kWh Accuracy class 1. Which standard will be used for 0.5s Class? <b>Annex B A</b>	The accuracy class 0.5s test is required in light of Letter issued by CE(D&S) NTDC, Lahore No. 3692/CED&S/2184 dated 22-08-2013 (IEC 62053 for accuracy test)
58	<p>Please confirm the responsible party for each activity.</p> <p>What will be procedure for SIM allocation?</p> <p>Snapshot along with longitude &amp; latitude, Addition of complete details of connection like meter serial number, grid name, power transformer etc. will be provided in vendor's software or as separate document?</p> <p>Cost of MDC software is to be included in cost of meters or installation cost?</p> <p>Cost of allied material i.e. cables, cable ties, fixtures, tape etc. is to be added in the cost of meters or installation?</p> <p>What will be procedure of hardware allocation to successful bidder for MDC installation?</p> <p>What will be procedure for allocation of IP address and ports for communication and web services for MDC?</p> <p>Successful bidder will have to setup MDC server before or after supply of meters?</p> <p>Please share the template of job card.</p> <b>Annex B B</b>	<p>PITC will provide pre-configured SIMs during installation</p> <p>Will be provided as separate document.</p> <p>LOT-A and LOT-B have different scope. The vendor is required to supply meters along with UDIL compliant communication driver and PC software in LOT-A. This falls in the scope of LOT-B.</p> <p>PITC will provide software and hardware resources to successful bidder for meter data communicator software deployment at PITC premises.</p> <p>PITC will provide IP addresses and port for communication during production.</p> <p>The meter data communicator software deployment at PITC premises will be carried out prior to the supply of meters.</p> <p>Job card is standard P&amp;I format.</p>
59	Please confirm if this applies to both Lot A and B. Please confirm how labor will be involved during warranty period <b>Annex B Note</b>	Annex-B Note falls in the scope of LOT-A Labour should be as per SLA.
60	<p>What is communication time interval for meters installed on incoming side of grids?</p> <p>What are the data items to be shared in instantaneous load, load profile, daily data and monthly data? Please share complete list of data items with required time interval for both incoming and outgoing sides.</p> <p>Which primary reports PITC needs from MDC other than installations?</p> <b>Annex C</b>	<p>Meter should update Meter Visuals every minutes for incoming meters whereas for outgoing meters frequency will be every 15 minutes</p> <p>Please refer to UDIL checklist No. 91020981 Release 4</p> <p>N/A</p>
61	How can we get UDIL certification? Are there any charges of getting UDIL compliance certification? <b>Annex C</b>	The Vendor is required to deploy its MDC at PITC testing facility. The software and hardware resources will be provided. The UDIL certificate will be issued after one week.
62	What will be the procedure for issuance of acceptance certificate? <b>Annex J Warranty</b>	Concerned DISCO will issue inspection certificate upon delivery and inspection of goods in the stores of respective DISCOs.
63	Please define the procedure for replacement of faulty meters. <b>Annex J</b>	SOP for LOT-A faulty meter under warranty. The faulty meter will be informed to the vendor and same may be collected by the vendor from consignee store along providing new meter as replacement.