

**Amendment No. 1**  
**to**  
**Request for Proposal (RfP)**  
**for**  
**For**  
**Appointment of Advanced Metering Infrastructure (AMI) Service Provider**  
**For**  
**Implementation of Smart Prepaid Metering in Union Territory (UT) of Puducherry**  
**Under**  
**Electricity Department, UT of Puducherry**

S.No	Reference Clause	Existing Provision as per RfP	Amended Provision
1.	Section 2. Clause 8.1 (Qualification Requirements)	<b>Please refer Annexure-1 to this Amendment to RfP for modified Table under Clause 8.1</b>	
2.	Section 2. Clause 8.2 (Qualification Requirements)	<b>Please refer Annexure-2 to this Amendment to RfP for modified Table under Clause 8.2</b>	
3.	Section 3. Clause 27.2	... The variation in quantity of the items shall be within the limit of plus/minus (+/-) hundred percent (100%) for individual items....	... The variation in quantity of the items shall be within the limit of <del>plus/minus (+/-)</del> (-) hundred percent (100%) / <b>plus (+) five hundred percent (500%)</b> for individual items....
4.	Section 3. Clause 28.2	Until the AMISP Contract is prepared and executed, the notification of award shall constitute a binding contract	Until the AMISP Contract is prepared and executed, the notification of award <b>and its subsequent acceptance by the successful bidder</b> shall constitute a binding contract
5.	Section 3. Clause 31.1	PFCCL, at its discretion, may provide to the successful bidder an interest-bearing advance payment against an advance payment security furnished by the successful bidder in the form of a bank guarantee for 10 % of the Contract Price	PFCCL, at its discretion, may provide to the successful bidder an interest-bearing advance payment against an advance payment security furnished by the successful bidder in the form of a bank guarantee for <b>10 15</b> % of the Contract Price
6.	Section 3. Sub-Section E Clause 1.1(cc)	...PFCCL shall make payments to AMISP in accordance with the terms and conditions of the Contract. Ownership of the entire system including all the hardware, software along with its valid licenses, and any data collected during the contract period would be of PFCCL and AMISP would assist PFCCL in transfer of the same to the Utility at the end of the Contract Period on 'as-is-where-is' basis to facilitate seamless operation of Utility businesses. If the licenses are perpetual, they would be simply transferred to the Utility at the end of the Contract Period. In the event perpetual licenses are not available and the AMISP has procured period licenses, the Utility will take over on payment of license fees at the end of the Contract Period...	...PFCCL shall make payments to AMISP in accordance with the terms and conditions of the Contract. Ownership of the entire system including all the hardware, software along with its valid licenses, and any data collected during the contract period would be of <del>PFCCL and</del> AMISP <b>and AMISP shall</b> <del>would assist PFCCL in</del> transfer <del>of</del> the same to the Utility at the end of the Contract Period on 'as-is-where-is' basis to facilitate seamless operation of Utility businesses. If the licenses are perpetual, they would be simply transferred to the Utility at the end of the Contract Period. In the event perpetual licenses are not available and the AMISP has procured period licenses, the Utility will take over on payment of license fees at the end of the Contract Period...
7.	Section 3. Sub-Section E Clause 10.1, S.No. 11	For Lead Member in case of Consortium Bidding / Sole Bidder Experience [Refer Clause 8.1 in Section 2]: i. References along with requisite contract/ Purchase Order (PO)/ Work Order (WO). The references should indicate client name, scope of work, Project start date (as per the format prescribed in Form 13 given in Section 4); ii. Documentary evidence of Project completion such as client completion certificate, proof of payment received and client certificate of delivery of material, proof of asset capitalized in books of accounts (as applicable)/ and similar proofs along with contact details of the client. The Lead Member/ Sole Bidder shall submit latest	For Lead Member in case of Consortium Bidding / Sole Bidder Experience [Refer Clause 8.1 in Section 2]: i. References along with requisite contract/ Purchase Order (PO)/ Work Order (WO). The references should indicate client name, scope of work, Project start date (as per the format prescribed in Form 13 given in Section 4); <b>In case Non-Disclosure agreement (NDA) is signed with the client, Bidder shall provide an undertaking for the NDA and shall also provide a client certification as proof of experience along with Client Name/ Email Address/ Contact no./ designation etc.</b> ii. Documentary evidence of Project completion such as client completion certificate, proof of payment received and client

		satisfactory performance certificate, issued by utilities at least three months prior to the bid submission date and the smart meters should have been operational for at least one year from the bid submission date.	certificate of delivery of material, proof of asset capitalized in books of accounts (as applicable)/ and similar proofs along with contact details of the client. <del><b>The Lead Member/ Sole Bidder shall submit latest satisfactory performance certificate, issued by utilities at least three months prior to the bid submission date and the smart meters should have been operational for at least one year from the bid submission date.</b></del>
8.	Section 3. Sub-Section E Clause 10.1. S.No. 12.1	<p>For System Integration Experience [Refer Clause 8.1 and 8.2 D1-D2 in Section 2]:</p> <ol style="list-style-type: none"> <li>References along with requisite contract/ Purchase Order (PO)/ Work Order (WO). The references should indicate client name, scope of work, Project start date (as per the format prescribed in Form 13 given in Section 4);</li> <li>Documentary evidence of completion of the Project or completion of Go-Live status (i.e., Go-live certificate, UAT testing certificate etc.) or other documentary evidence indicating completion (e.g., proof of payment received and client certificate for supply of material or similar proofs) along with contact details of the client;</li> <li>Client certificate and other documentation for implementation performance/ operation.</li> <li>Agreement entered with the sole bidder / lead bidder (as per format prescribed in Form 23 of section 4)</li> </ol>	<p>For System Integration Experience [Refer Clause 8.1 and 8.2 D1-D2 in Section 2]:</p> <ol style="list-style-type: none"> <li>References along with requisite contract/ Purchase Order (PO)/ Work Order (WO). The references should indicate client name, scope of work, Project start date (as per the format prescribed in Form 13 given in Section 4); <b>In case Non-Disclosure agreement (NDA) is signed with the client, Bidder shall provide an undertaking for the NDA and shall also provide a client certification as proof of experience along with Client Name/ Email Address/ Contact no./ designation etc.</b></li> <li>Documentary evidence of completion of the Project or completion of Go-Live status (i.e., Go-live certificate, UAT testing certificate etc.) or other documentary evidence indicating completion (e.g., proof of payment received and client certificate for supply of material or similar proofs) along with contact details of the client;</li> <li><del>Client certificate and</del> Any other documentation for implementation performance/ operation.</li> <li>Agreement entered with the sole bidder / lead bidder (as per format prescribed in Form 23 of section 4)</li> </ol>
9.	Section 3. Sub-Section E Clause 10.1, S.No. 12.2	<p>For Meter Manufacturer Eligibility [Refer Clause 8.2 A1-A4 in Section 2]:</p> <ol style="list-style-type: none"> <li>References along with requisite contract/ Purchase Order (PO)/ Work Order (WO). The references should indicate client name, scope of work, Project start date (as per the format prescribed in Form 14);</li> <li>Documentary evidence of completion of the Project or other documentary evidence indicating completion of supply (e.g. proof of payment received/ proof of asset capitalized in books of accounts (as applicable) and client certificate for supply of material or similar proofs) along with contact details of the client;</li> <li>Client certificate and other documentation for implementation performance/ operation</li> </ol>	<p>For Meter Manufacturer Eligibility [Refer Clause 8.2 A1-A4 in Section 2]:</p> <ol style="list-style-type: none"> <li>References along with requisite contract/ Purchase Order (PO)/ Work Order (WO). The references should indicate client name, scope of work, Project start date (as per the format prescribed in Form 14); <b>In case Non-Disclosure agreement (NDA) is signed with the client, Bidder shall provide an undertaking for the NDA and shall also provide a client certification as proof of experience along with Client Name/ Email Address/ Contact no./ designation etc.</b></li> <li>Documentary evidence of completion of the Project or other documentary evidence indicating completion of supply (e.g. proof of payment received/ proof of asset capitalized in books of accounts (as applicable) and client certificate for supply of material or similar proofs) along with contact details of the client;</li> </ol>

		<p>d) A valid registration certificate of manufacturing unit along with Self-declaration by manufacturer and factory license certificate for requisite facilities.</p> <p>e) A valid ISO certificate on or before the date of submission of the bid</p> <p>f) A valid registration certificate mentioning issue/ renewal/ expiry date.</p> <p>g) A MAF signed on the letterhead of the Smart Meter manufacturer, addressed to the Sole/ Lead Bidder (as per the format prescribed in Form 22).</p> <p>h) Agreement entered with the sole bidder / lead bidder (as per format prescribed in Form 23 of section 4)</p>	<p>c) <del>Client certificate and</del> Any other documentation for implementation performance/ operation</p> <p>d) A valid registration certificate of manufacturing unit along with Self-declaration by manufacturer and factory license certificate for requisite facilities.</p> <p>e) A valid ISO certificate on or before the date of submission of the bid</p> <p>f) A valid registration certificate mentioning issue/ renewal/ expiry date.</p> <p>g) A MAF signed on the letterhead of the Smart Meter manufacturer, addressed to the Sole/ Lead Bidder (as per the format prescribed in Form 22).</p> <p>h) Agreement entered with the sole bidder / lead bidder (as per format prescribed in Form 23 of section 4)</p>
10	Section 3. Sub-Section E Clause 10.1, S.No. 12.3	<p>For Head End System (HES) solution provider Eligibility [Refer Clause 8.2 B1 in Section 2]:</p> <p>a) References along with requisite contract/ Purchase Order (PO)/ Work Order (WO). The references should indicate client name, scope of work, Project start date (as per the format prescribed in Form 13 given in Section 4);</p> <p>b) Client certificate/ report issued by Client / MDMS OEM / solution provider and other documentation for implementation performance/ operation.</p> <p>c) A MAF signed on the letterhead of the HES Solution provider, addressed to the Sole/ Lead Bidder (as per the format prescribed in Form 22).</p> <p>d) Agreement entered with the sole bidder / lead bidder (as per format prescribed in Form 23 of section 4)</p>	<p>For Head End System (HES) solution provider Eligibility [Refer Clause 8.2 B1 in Section 2]:</p> <p>a) References along with requisite contract/ Purchase Order (PO)/ Work Order (WO). The references should indicate client name, scope of work, Project start date (as per the format prescribed in Form 13 given in Section 4);</p> <p><b>In case Non-Disclosure agreement (NDA) is signed with the client, Bidder shall provide an undertaking for the NDA and shall also provide a client certification as proof of experience along with Client Name/ Email Address/ Contact no./ designation etc.</b></p> <p>b) Client certificate/ report issued by Client / MDMS OEM / solution provider and other documentation for implementation performance/ operation.</p> <p>c) A MAF signed on the letterhead of the HES Solution provider, addressed to the Sole/ Lead Bidder (as per the format prescribed in Form 22).</p> <p>d) Agreement entered with the sole bidder / lead bidder (as per format prescribed in Form 23 of section 4)</p>
11	Section 3. Sub-Section E Clause 10.1, S.No. 12.4	<p>For Meter Data Management System (MDMS) solution provider Eligibility [Refer Clause 8.2 C1-C3 in Section 2]:</p> <p>a) References along with requisite contract/ Purchase Order (PO)/ Work Order (WO). The references should indicate client name, scope of work, Project start date (as per the format prescribed in Form 13 given in Section 4);</p> <p>b) Documentary evidence of completion of the Project or completion of Go-live status (i.e., Go-live certificate, UAT testing certificate etc.) of the respective project as per the definition of Go-Live/ UAT specified therein or other documentary evidence indicating completion (e.g., proof of payment received/ proof of asset capitalized in books of</p>	<p>For Meter Data Management System (MDMS) solution provider Eligibility [Refer Clause 8.2 C1-C3 in Section 2]:</p> <p>a) References along with requisite contract/ Purchase Order (PO)/ Work Order (WO). The references should indicate client name, scope of work, Project start date (as per the format prescribed in Form 13 given in Section 4);</p> <p><b>In case Non-Disclosure agreement (NDA) is signed with the client, Bidder shall provide an undertaking for the NDA and shall also provide a client certification as proof of experience along with Client Name/ Email Address/ Contact no./ designation etc.</b></p> <p>b) Documentary evidence of completion of the Project or completion of Go-live status (i.e., Go-live certificate, UAT testing certificate etc.) of</p>

		<p>accounts (as applicable) and client certificate for supply of material or similar proofs) along with contact details of the client</p> <p>c) Client certificate and other documentation for implementation performance/ operation.</p> <p>d) A valid ISO certificate or CMMi certificate on or before the date of submission.</p> <p>e) A MAF signed on the letterhead of the MDMS Solution provider, addressed to the Sole/ Lead Bidder (as per the format prescribed in Form 22).</p> <p>f) Agreement entered with the sole bidder / lead bidder (as per format prescribed in Form 23 of section 4)</p>	<p>the respective project as per the definition of Go-Live/ UAT specified therein or other documentary evidence indicating completion (e.g., proof of payment received/ proof of asset capitalized in books of accounts (as applicable) and client certificate for supply of material or similar proofs) along with contact details of the client</p> <p>c) <del>Client certificate and</del> Any other documentation for implementation performance/ operation.</p> <p>d) A valid ISO certificate or CMMi certificate on or before the date of submission.</p> <p>e) A MAF signed on the letterhead of the MDMS Solution provider, addressed to the Sole/ Lead Bidder (as per the format prescribed in Form 22).</p> <p>f) Agreement entered with the sole bidder / lead bidder (as per format prescribed in Form 23 of section 4)</p>
12	Section 3. Sub-Section E Clause 10.1.12.5	<p>For RF Solution Provider Eligibility [Refer Clause 8.2 E1-E3 in Section 2]:</p> <p>a. Certificate of Incorporation and Registration certificate along with Memorandum &amp; Articles of Association. Copy of valid Licenses (In case of RF, Valid certificate issued by Wireless Planning &amp; Coordination (WPC) Wing of the Ministry of Communications, GOI</p> <p>b. References along with requisite contract/ PO/ WO. The references should indicate client name, scope of work, project start date and date of completion of installation. Certificate from the client on successful implementation of the project.</p> <p>c. Signed agreements/ MoUs for integration of NIC module or Certificate of successful integration.</p> <p>d. A MAF signed on the letterhead of the RF Solution provider, addressed to the Sole/ Lead Bidder (as per the format prescribed in Form 22).</p> <p>e. Agreement entered with the sole bidder / lead bidder (as per format prescribed in Form 23 of section 4)</p>	<p>For RF <b>Technology</b> / Solution Provider Eligibility [Refer Clause 8.2 E1-E3 in Section 2]:</p> <p>a. Certificate of Incorporation and Registration certificate along with Memorandum &amp; Articles of Association. Copy of valid Licenses (In case of RF, Valid certificate issued by Wireless Planning &amp; Coordination (WPC) Wing of the Ministry of Communications, GOI <b>as on date of bid submission</b></p> <p>b. References along with requisite contract/ PO/ WO. The references should indicate client name, scope of work, project start date and date of completion of installation. Certificate from the client on successful implementation of the project. <b>In case Non-Disclosure agreement (NDA) is signed with the client, Bidder shall provide an undertaking for the NDA and shall also provide a client certification as proof of experience along with Client Name/ Email Address/ Contact no./ designation etc.</b></p> <p>c. Signed agreements/ MoUs for integration of NIC module or Certificate of successful integration.</p> <p>d. A MAF signed on the letterhead of the RF <b>Technology</b> / Solution provider, addressed to the Sole/ Lead Bidder (as per the format prescribed in Form 22).</p> <p>e. Agreement entered with the sole bidder / lead bidder (as per format prescribed in Form 23 of section 4)</p>
13	Section 3. Sub-Section E Clause 16.4	<p>As per RDSS Scheme, Utility shall receive Gross Budgetary Support (GBS) from Central Government of 15%/ 22.5% of approved cost of the metering works including the operational cost, provided that it is not more than Rs. 900/ 1350 per meter basis the state category (“Other than Special Category States”</p>	<p><b>As per RDSS Scheme, Utility shall receive Gross Budgetary Support (GBS) from Central Government of 15% of approved cost of the metering works including the operational cost:</b></p> <p>a. <b>For consumer metering, GBS shall not be more than Rs. 900 per consumer. Accordingly, Utility shall provide to PFCCL a</b></p>

		and “Special Category States”). Accordingly, Utility shall provide to PFCCL a minimum lumpsum amount of INR 900/1350 per meter calculated assuming smart metering cost of Rs. 6000 per meter over the project life which shall in turn be shared by PFCCL to AMISP as lumpsum amount as per payment terms defined in clause 5.2.3 of the General Conditions of the Contract (GCC). In case price discovered in the Bid is less than Rs. 6000 per meter over the project life, Utility shall be eligible for GBS of 15/22.5% of the discovered cost only and in turn, AMISP shall also be eligible for that amount only as lumpsum amount	<p>minimum lumpsum amount of INR 900 per meter calculated assuming smart metering cost of Rs. 6000 per meter over the project life which shall in turn be passed on to AMISP as lumpsum amount as per payment terms defined in clause 5.2.3 of the General Conditions of the Contract (GCC). In case the price discovered in the Bid is less than Rs. 6000 per meter over the project life, the Utility shall be eligible for GBS of 15% of the discovered cost only. In such a case, Utility will be required to pay the remaining amount to PFCCL to meet the minimum lumpsum payment requirement as provided in the RFP which shall in turn be passed on to AMISP.</p> <p>b. For DT/ Feeder metering, the Utility shall provide to PFCCL a minimum lumpsum amount of Rs. 3450 per DT meter calculated assuming smart metering cost of Rs. 23,000 per DT meter over the project life and a minimum lumpsum amount of Rs. 6300 per Feeder meter calculated assuming smart metering cost of Rs. 42,000 per Feeder meter over the project life which shall in turn be passed on to AMISP as lumpsum amount as per payment terms defined in clause 5.2.3 of the General Conditions of the Contract (GCC). In case the price discovered in the Bid is less than or greater than Rs. 23000 per DT meter or Rs. 42000 per Feeder meter over the project life, the Utility shall be eligible for GBS of 15% of the discovered cost and in turn, AMISP shall also be eligible for that amount as lumpsum amount.</p> <p>c. Additional incentive if any shall be passed on to AMISP based on the eligibility under RDSS guidelines and the AMISP service Charge to be payable shall be modified after deducting the additional incentive from cost of meter quoted by AMISP. Further, if the project is delayed beyond the project completion time mentioned in the contract due to reasons attributable to AMISP, the incentive received, if any, from Central Government shall be passed on after deducting the Liquidated Damages (LD) for such delay as per contract conditions.</p>
14	Section 3. Sub-Section E Clause 19.1	... Link for the bid opening meeting will be made available at least 7 Days prior to the Bid Opening event, at PFCCL’s website <a href="http://www.pfcclindia.com">www.pfcclindia.com</a>	... Link for the bid opening meeting will be made available at least <b>17 Days</b> prior to the Bid Opening event, at PFCCL’s website <a href="http://www.pfcclindia.com">www.pfcclindia.com</a>
15	Section 4, Checklist of Required Forms	<b>S.No. 11, 12.1, 12.2, 12.4 &amp; 12.4 of the Checklist is hereby modified in line with the corresponding modifications made in Section 3. Sub-Section E Clause 10.1 S.No. 11, 12.1, 12.2, 12.4 &amp; 12.4 respectively</b>	
16	Section 4. Form 14, Table 1, S. No. 2	Three Phase Whole current Smart Meter 10-60A,3x240V P-N (with Net Metering) -Consumer Meter	Three Phase Whole current Smart Meter 10-60A/ <b>20-100A</b> ,3x240V P-N (with Net Metering) -Consumer Meter
17	Section 4. Form 14, Table 1, S. No. 5, 6	<b>Requirement of Standalone Modems is hereby deleted</b>	

	& 7		
18	Section 4. Form 14, Table 1, S. No. 15	<b>Network Operation cum Monitoring Center (NOMC)</b> <ol style="list-style-type: none"> <li>Desktops/ Workstation (with UPS, Table, Chair, OS and latest MS Office) – 10 no.</li> <li>Network LaserJet (B/W) Photo copy, scanning and Printing – 10 no.</li> <li>A3 Size Inkjet Color Printer/All in one Color laser jet Printer – 2 no.</li> <li>A4 Size Inkjet / Bubble Jet printer – 4 no.</li> <li>Work Station with Dual TFT Monitors – 8 no.</li> <li>Antivirus software/ UTM application</li> <li>Installation, Commissioning &amp; Testing &amp; Integration with Existing System of NOMC</li> </ol>	<b>Network Operation cum Monitoring Center (NOMC)</b> <ol style="list-style-type: none"> <li>17” Operator workstations – 6 no.</li> <li>A dual redundant 1 Gbps local area network</li> <li>Internet router with at least 48 no’s 1 Gbps LAN ports and redundant at least 2 Gbps internet ports supporting IPsec, and SSLVPN capability</li> <li>Firewall and intrusion protection system</li> <li>Video display system of at least 70-inch diagonal with laser light source HD cube (DLP technology) supported by Dual power supply, IP based control options and Display Port, DVI, HDMI and Analog D-Sub signal interfaces – 1 no.</li> <li>A3/A4 size laser jet B/W printer with LAN interface – 1 no.</li> <li>A4 size ink jet colour printer with LAN interface – 1 no.</li> <li>Dual redundant online UPS to support the load of the above-mentioned equipment with minimum 2 hours backup – 1 no.</li> <li>2 Gbps internet connectivity</li> <li>Antivirus software/ UTM application</li> <li>Installation, Commissioning &amp; Testing &amp; Integration with Existing System of NOMC</li> </ol>
19	Section 4. Form 19, Format 1, Clause No. 3	FURTHER RESOLVED THAT the Board hereby acknowledges the Board Resolution(s) passed by the..... [Name of the Affiliate(s)/ Parent / Ultimate Parent] regarding the investment of.....(....%) of the equity share capital requirements of .....[Name of SPV], which is to be invested by the .....[Name of the Affiliate(s)/ Parent / Ultimate Parent] for the ..... [Name of SPV]. as per the terms of the RFP	FURTHER RESOLVED THAT the Board hereby acknowledges the Board Resolution(s) passed by the..... [Name of the Affiliate(s)/ Parent / Ultimate Parent] regarding the investment of.....(....%) of the equity share capital requirements of .....[Name of SPV], which is to be invested by the .....[Name of the Affiliate(s)/ Parent / Ultimate Parent] for the ..... <del>[Name of SPV]</del> . as per the terms of the RFP
20	Section 4. Form 19, Format 1, Note No. 2	The contents of the format may be suitably re-worded indicating the identity of the entity passing the resolution, i.e., the Sole Bidder, each Member of the Bidding Consortium	The contents of the format may be suitably re-worded indicating the identity of the entity passing the resolution, i.e., the Sole Bidder, each Member of the Bidding Consortium. <b>Further, in case of an AIF, an undertaking by the competent authority, based on delegation of authority accorded by the Fund/ board resolution of its investment manager can be submitted</b>
21	Section 4. Form 19, Format 2	...RESOLVED THAT pursuant to the provisions of the Companies Act, 1956 / Companies Act, 2013 (as the case may be) and compliance thereof and as permitted under the Memorandum and Articles of Association of the company, approval of the Board be and is hereby accorded for issuing an Undertaking to PFCCL, in the format specified in the RFP issued by PFCCL, draft of which is attached hereto and initiated	...RESOLVED THAT pursuant to the provisions of the Companies Act, 1956 / Companies Act, 2013 (as the case may be) and compliance thereof and as permitted under the Memorandum and Articles of Association of the company, approval of the Board be and is hereby accorded for issuing an Undertaking to PFCCL, in the format specified in the RFP issued by PFCCL, draft of which is attached hereto and initiated by the Chairman whereby the company undertakes to invest .....

		by the Chairman whereby the company undertakes to invest ..... percent (.....%) of the total equity share capital of .....[Name Of SPV] representing the entire amount proposed to be invested by ..... [ insert name of the Bidder or Member] for the said Project, in case of failure of ..... [Insert the name of the Bidder or Member] to make such investment"...	percent (.....%) of the total equity share capital of the ..... <del>[Name Of SPV]</del> representing the entire amount proposed to be invested by ..... [ insert name of the Bidder or Member] for the said Project, in case of failure of ..... [Insert the name of the Bidder or Member] to make such investment"...
22	Section 4. Form 19, Format 2, Note No. 2	The contents of the format may be suitably re-worded indicating the identity Of the entity passing the resolution	The contents of the format may be suitably re-worded indicating the identity Of the entity passing the resolution. <b>Further, in case of an AIF, an undertaking by the competent authority, based on delegation of authority accorded by the Fund/ board resolution of its investment manager can be submitted</b>
23	Section 4. Form 21	.... Data Retention for Three Phase Whole Current Smart Pre-paid Meter would be as per 16444 Part 2....	.... Data Retention for Three Phase Whole Current Smart Pre-paid Meter would be as per 16444 <b>Part 1</b> ....
24	Section 4. Form 22	...We hereby extend our full guarantee and warranty for the above specified plant & equipment materials or other goods offered supporting the supply, installation and achieving of Operational Acceptance of the plant by the Bidder against these Bidding Documents, and duly authorize said Bidder to act on our behalf in fulfilling these guarantee and warranty obligations. We also hereby declare that we and ....., [insert: name of the Bidder] have entered into a formal relationship in which, during the duration of the Contract (including warranty / defects liability) we, the Manufacturer or Producer, will make our technical and engineering staff ...	...We hereby extend our full guarantee and warranty for the above specified plant & equipment materials or other goods offered supporting the supply, installation, <b>commissioning</b> and achieving of Operational <b>Acceptance Go-live</b> of the plant by the Bidder against these Bidding Documents, and duly authorize said Bidder to act on our behalf in fulfilling these guarantee and warranty obligations. We also hereby declare that we and ....., [insert: name of the Bidder] have entered into a formal relationship in which, during the duration of the Contract (including warranty / defects liability) we, the Manufacturer or Producer, will make our technical and engineering staff ...
25	Section 5 Annexure: Quoted prices for the Financial Bid	<p align="center"><b>Please refer Annexure-3 to this Amendment to RfP for modified Tables.</b></p> <p><b>Bidders are advised to ignore the “Final Annexure to Price Bid Format” excel file available under the Head “Additional Specification Documents - Additional Document 1” in the existing bid document available on the GeM Portal. Instead, Bidders are advised to refer and download the “Updated Annexure to Price Bid Format” excel file available on PFCCCL’s website under the Head “Tenders” at S.No. 58 (<a href="https://www.pfccclindia.com/tender.php?AM2">https://www.pfccclindia.com/tender.php?AM2</a>) based on the changes made in the Annexure-3 to this Amendment to RfP. The Bidders must fill this excel file and upload the duly signed scanned copy of the same in pdf format on the GeM Portal under Financial Bid Section. In case the pdf file is uploaded by the Bidder under Technical Bid Section of the GeM Portal, the bid shall be rejected.</b></p> <p><b>As a part of the Financial Bid uploading process, Bidders must ensure that the values of various items filled by them online in the system on the GeM Portal should match with the corresponding values filled by them in the Updated Annexure to Price Bid Format. In case of any mismatch, the bid shall be rejected.</b></p>	
26	Section 6. Clause 1.2	...PFCCCL shall make payments to AMISP in accordance with the terms and conditions of this Project Requirements (AMI System Requirements and Service Level Agreement) contract. Ownership of the entire system including all the hardware, software along with its valid licenses, and any data collected	...PFCCCL shall make payments to AMISP in accordance with the terms and conditions of this Project Requirements (AMI System Requirements and Service Level Agreement) contract. Ownership of the entire system including all the hardware, software along with its valid licenses, and any data collected during the contract period would be of <b>PFCCCL AMISP</b> and



		during the contract period would be of PFCCL and AMISP would assist PFCCL in transfer of the same to the Utility at the end of the Contract Period on 'as-is-where-is' basis to facilitate seamless operation of Utility businesses. If the licenses are perpetual, they would be simply transferred to the Utility at the end of the Contract Period. In the event perpetual licenses are not available and the AMISP has procured period licenses, the Utility will take over on payment of license fees at the end of the Contract Period...	AMISP <del>shall would assist PFCCL in</del> transfer <del>of</del> the same to the Utility at the end of the Contract Period on 'as-is-where-is' basis to facilitate seamless operation of Utility businesses. If the licenses are perpetual, they would be simply transferred to the Utility at the end of the Contract Period. In the event perpetual licenses are not available and the AMISP has procured period licenses, the Utility will take over on payment of license fees at the end of the Contract Period. ....
27	Section 6. Clause 1.2, Table G	Requirement of Standalone Modems is hereby deleted	
28	Section 6. Clause 1.2(f)	Presently the IT billing system of the Utility is functioning using proprietary software developed using clipper and using the software developed by NIC using .NET. The NIC software is hosted in cloud and have various online payment modes. Besides, the consumers have the option of payment through the bill counters. AMISP shall integrate the new AMI system with the existing IT billing system as per standard interfaces mentioned in Section 6, clause 3.1 for seamless transformation to prepaid mode and wise versa for which necessary support will be extended by the Utility. Further, AMI system shall be integrated with the SCADA/DMS/OMS system, ERP system and new IT system proposed in the RDSS scheme for effective utilization of AMI resources for OMS applications. Besides, the new AMI system has also to be integrated with the existing Smart Grid Pilot AMI system to enable transformation of existing AMI consumers to pre-paid mode through MDM-MDM integration through IEC 61968. The New AMI system to be implemented for all consumers of Utility and Back-End IT system shall be scalable to cater to future consumer growth for next 15 years	Presently the IT billing system of the Utility is functioning using proprietary software developed using clipper and using the software developed by NIC using .NET. The NIC software is hosted in cloud and have various online payment modes. Besides, the consumers have the option of payment through the bill counters. AMISP shall integrate the new AMI system with the existing IT billing system as per standard interfaces mentioned in Section 6, clause 3.1 for seamless transformation to prepaid mode and wise versa for which necessary support will be extended by the Utility. Further, AMI system shall be integrated with the SCADA/DMS/OMS system, ERP system and new IT system proposed in the RDSS scheme for effective utilization of AMI resources for OMS applications. <b>Further, AMISP shall integrate the new AMI system with new IT billing system proposed under RDSS or with new Unified billing solution proposed by Ministry of Power (MoP), Govt. of India under RDSS as per the requirement of the Utility whenever such systems are available. The Utility shall facilitate the support of the vendors of other systems for such integration.</b> Besides, the new AMI system has also to be integrated with the existing Smart Grid Pilot AMI system to enable transformation of existing AMI consumers to pre-paid mode through MDM-MDM integration through IEC 61968. The New AMI system to be implemented for all consumers of Utility and Back-End IT system shall be scalable to cater to future consumer growth for next 15 years
29	Section 6. Clause 1.4(A)(a)	Smart pre-paid metering along with Smart meter box installation and service cable for consumers, DTs and Feeders through 1-Ph, 3-Ph and LTCT as per Clause 2.1 of this Section	Smart pre-paid metering along with Smart meter box installation <del>and service cable</del> for consumers, DTs and Feeders <del>through 1-Ph, 3-Ph, and LTCT</del> as per Clause 2.1 of this Section
30	Section 6. Clause 1.4(A)(e)	Supply of standalone modems as per List of Material and Services (Form 14) of RfP. These standalone modems are required for some of the existing meters which are not being replaced by the Utility and are DLMS/COSEM complaint and their useful life have not been over. Most of meters are Secure	<del>Supply of standalone modems as per List of Material and Services (Form 14) of RfP. These standalone modems are required for some of the existing meters which are not being replaced by the Utility and are DLMS/COSEM complaint and their useful life have not been over. Most of meters are Secure make Premier 300 Model. Modems shall</del>

		make Premier 300 Model. Modems shall have to be only supplied and installed by AMISP. These meters shall not be considered for arriving at the SLA of the project. The Technical Specifications of Standalone Modems are given in Section 7, Annexure W	<del>have to be only supplied and installed by AMISP. These meters shall not be considered for arriving at the SLA of the project. The Technical Specifications of Standalone Modems are given in Section 7, Annexure W</del>
31	Section 6. Clause 1.4(A)(l)	Installation of Distribution Box and laying of service cable from LT line to meter and from Meter to consumer premises, removal of existing cable, if required, connection, taping, Laying of DT cables from DT through LTCT meters to LTDB/Fuse Box, wherever applicable. Material, tools and other accessories (not covered in BoQ) required for dismantling, civil work and installation of the new, shall also be in the scope of agency	<del>Installation of Distribution Box and laying of service cable from LT line to meter and from Meter to consumer premises, removal of existing cable, if required, connection, taping, Laying of DT cables from DT through LTCT meters to LTDB/Fuse Box, wherever applicable. Material, tools and other accessories (not covered in BoQ) required for dismantling, civil work and installation of the new, shall also be in the scope of agency</del>
32	Section 6. Clause 1.4(A)(m)	Installation of 9x1 Cabinet boxes with requisite cabling wherever applicable	<del>Installation of 9x1 Cabinet boxes with requisite cabling wherever applicable</del>
33	Section 6. Clause 1.4(D)	Presently the IT billing system of the Utility is functioning using proprietary software developed using clipper and using the software developed by NIC using .NET. The NIC software is hosted in cloud and have various online payment modes. Besides, the consumers have the option of payment through the bill counters. AMISP shall integrate the new AMI system with the existing IT billing system as per standard interfaces mentioned in Section 6, clause 3.1 for seamless transformation to prepaid mode and vice-versa for which necessary support will be extended by the Utility. Further, AMI system shall be integrated with the SCADA/DMS/OMS system, ERP system and new IT system proposed in the RDSS scheme for effective utilization of AMI resources for OMS applications. Besides, the new AMI system has also to be integrated with the existing Smart Grid Pilot AMI system to enable transformation of existing AMI consumers to pre-paid mode through MDM-MDM integration through IEC 61968. The New AMI system to be implemented for all consumers of Utility and Back-End IT system shall be scalable to cater to future consumer growth for next 15 years	Presently the IT billing system of the Utility is functioning using proprietary software developed using clipper and using the software developed by NIC using .NET. The NIC software is hosted in cloud and have various online payment modes. Besides, the consumers have the option of payment through the bill counters. AMISP shall integrate the new AMI system with the existing IT billing system as per standard interfaces mentioned in Section 6, clause 3.1 for seamless transformation to prepaid mode and vice-versa for which necessary support will be extended by the Utility. Further, AMI system shall be integrated with the SCADA/DMS/OMS system, ERP system and new IT system proposed in the RDSS scheme for effective utilization of AMI resources for OMS applications. <b>Further, AMISP shall integrate the new AMI system with new IT billing system proposed under RDSS or with new Unified billing solution proposed by Ministry of Power (MoP), Govt. of India under RDSS as per the requirement of the Utility whenever such systems are available. The Utility shall facilitate the support of the vendors of other systems for such integration.</b> Besides, the new AMI system has also to be integrated with the existing Smart Grid Pilot AMI system to enable transformation of existing AMI consumers to pre-paid mode through MDM-MDM integration through IEC 61968. The New AMI system to be implemented for all consumers of Utility and Back-End IT system shall be scalable to cater to future consumer growth for next 15 years
34	Section 6. Clause 1.4(K)	Other activities to be carried out to ensure successful installation and commissioning: a. Dismantling of existing meter boxes and other scrapped service cables from site and erection and commissioning of service cable and meter boxes along with necessary items	Other activities to be carried out to ensure successful installation and commissioning: a. Dismantling of existing meter boxes and other scrapped service cables from site and erection and commissioning of <del>service cable and</del> meter boxes along with necessary items like CT'S, lugs etc. as per the

		<p>like CT'S, lugs etc. as per the guidelines of the Utility. The installation work of meter boxes, cables etc. should be carried out as per the safety guidelines of the Utility, while meeting all requisite quality standards</p> <p>b. All meter installations at user accessible height or consumer premises shall preferably be installed with Armoured service cable from LT line to Meter while at un-accessible height such as poles etc., these may be installed with Un-Armoured Service Cable from LT Line to Meter. The service cable installation from Meter to Consumer premises shall be Un-Armoured in all case. The above may be reviewed on case-to-case basis with inputs from PFCCL/ Utility</p> <p>c. All the associated necessary civil work for dismantling existing structures / equipment and to put in place the new structures / equipment, shall be carried by the AMISP</p>	<p>guidelines of the Utility. The installation work of meter boxes, cables etc. should be carried out as per the safety guidelines of the Utility, while meeting all requisite quality standards</p> <p><del>b. All meter installations at user accessible height or consumer premises shall preferably be installed with Armoured service cable from LT line to Meter while at un-accessible height such as poles etc., these may be installed with Un-Armoured Service Cable from LT Line to Meter. The service cable installation from Meter to Consumer premises shall be Un-Armoured in all case. The above may be reviewed on case-to-case basis with inputs from PFCCL/ Utility</del></p> <p>c. All the associated necessary civil work for dismantling existing structures / equipment and to put in place the new structures / equipment, shall be carried by the AMISP</p>
35	Section 6. Cl. 1.4 M	Any other services as may be required by PFCCL/ Utility & mutually agreed upon.	Any other <b>activity</b> / services as may be required by PFCCL/ Utility <b>for successful completion of the contract &amp; mutually agreed upon.</b>
36	Section 6. Cl. 1.12 (u)	Utility to provide necessary clearance/ approval/ permits that are to be issued by it for initial 20% of contiguous electrical locations for Smart Meter deployment along with related documentation within 1 (one) month from date of execution of this Contract. Provide necessary clearance/ approval/ permits to be issued by it for remaining contiguous electrical locations as well as non-contiguous electrical locations for Smart Meter deployment along with related documentation on quarterly basis. Utility shall endeavour to provide complete area within four (4) months from date of execution of the Contract. Utility shall issue a Notice (provided if the Utility has not been able to provide clearance/ approval/ permits for installation of the meters) no later than 7 days of expiry of time period specified above confirming the actual number of meters for which clearance/ approval/ permits is available	Utility to provide necessary clearance/ approval/ permits that are to be issued by it for initial 20% of contiguous electrical locations for Smart Meter deployment along with related documentation within 1 (one) month from date of execution of this Contract. Provide necessary clearance/ approval/ permits to be issued by it for remaining contiguous electrical locations as well as non-contiguous electrical locations for Smart Meter deployment along with related documentation on quarterly basis. Utility shall endeavour to provide <b>at least 20% of contiguous electrical locations cleared each month and</b> complete area within four (4) months from date of execution of the Contract. Utility shall issue a Notice (provided if the Utility has not been able to provide clearance/ approval/ permits for installation of the meters) no later than 7 days of expiry of time period specified above confirming the actual number of meters for which clearance/ approval/ permits is available
37	Section 6. Cl. 1.12 (nn)	-	<p><b>Ensure process inter-lock, i.e., Utility shall ensure that:</b></p> <p>a. Any new consumer added to the Utility database shall be routed through the AMI system to ensure accurate tagging/ indexing of consumers.</p> <p>b. Any modifications/ new additions in the network assets of the Utility, e.g., O&amp;M works that lead to new asset addition (DT/ Feeders etc.), segregation of existing assets (Feeder segregation, creating of dedicated feeders etc.) shall be routed through the AMI system and the Utility shall ensure that the said asset is reflected in the AMI system/ any Utility software.</p>

38	Section 6. Clause 1.13	Dismantling of existing meter boxes and other scrapped service cables from site and Erection & Commissioning of service cable and meter boxes along with necessary items like CT'S, lugs etc. as per guidelines of the Utility. Agency shall carry out installation work of meter box, cable etc. with proper safety guidelines issued by the Utility for work at height, work on-live etc. while also meeting all quality standards	Dismantling of existing meter boxes and other scrapped service cables from site and erection and commissioning of <del>service cable and</del> meter boxes along with necessary items like CT'S, lugs etc. as per the guidelines of the Utility. The installation work of meter boxes, <del>cables</del> etc. should be carried out as per the safety guidelines of the Utility, while meeting all requisite quality standards
39	Section 6. Clause 1.14	All meter installations at user accessible height or consumer premises shall preferably be installed with Armoured service cable from LT line to Meter while at un-accessible height such as poles etc. may be installed with Un-Armoured Service Cable from LT Line to Meter. The service cable installation from Meter to Consumer premises shall be Un-Armoured in all case. The above may be reviewed on case-to-case basis with inputs from PFCCL/ Utility.	<del>All meter installations at user accessible height or consumer premises shall preferably be installed with Armoured service cable from LT line to Meter while at un-accessible height such as poles etc. may be installed with Un-Armoured Service Cable from LT Line to Meter. The service cable installation from Meter to Consumer premises shall be Un-Armoured in all case. The above may be reviewed on case-to-case basis with inputs from PFCCL/ Utility</del>
40	Section 6. Clause 2.6	...In addition, the AMISP shall establish connectivity between the cloud-based MDM system with utility's existing Billing system. This will necessitate creation of a VPN tunnel between the two unless it is decided to migrate the Billing system to the same cloud data centre. The AMISP must submit the details of the supplied hardware along with the Bid. However, support for running old billing system shall not be required if AMISP opts not to integrate the AMI system with the existing billing system and not to utilize the resources of existing billing system. The AMISP shall assess the adequacy of hardware specified in the List of Material and Services & if any additional hardware or higher end hardware configurations are required to meet all the requirements of the Technical Specifications, the same shall be included in the offer.....	...In addition, the AMISP shall establish connectivity between the cloud-based MDM system with utility's existing Billing system. This will necessitate creation of a VPN tunnel between the two unless it is decided to migrate the Billing system to the same cloud data centre. The AMISP must submit the details of the supplied hardware along with the Bid. <del>However, support for running old billing system shall not be required if AMISP opts not to integrate the AMI system with the existing billing system and not to utilize the resources of existing billing system.</del> The AMISP shall assess the adequacy of hardware specified in the List of Material and Services & if any additional hardware or higher end hardware configurations are required to meet all the requirements of the Technical Specifications, the same shall be included in the offer.....
41	Section 6. Clause 2.6.2	...In addition, the AMISP has to be establish connectivity between the cloud-based MDM system with utility's existing Billing system. This will necessitate creation of a VPN tunnel between the two, unless it is decided to migrate the Billing system to the same cloud data centre. However, support for running old billing system shall not be required if AMISP opts not to integrate the AMI system with the existing billing system and not to utilize the resources of existing billing system...	...In addition, the AMISP has to be establish connectivity between the cloud-based MDM system with utility's existing Billing system. This will necessitate creation of a VPN tunnel between the two, unless it is decided to migrate the Billing system to the same cloud data centre. <del>However, support for running old billing system shall not be required if AMISP opts not to integrate the AMI system with the existing billing system and not to utilize the resources of existing billing system...</del>
42	Section 6. Clause 3.1	...Presently the IT billing system of the Utility is functioning using proprietary software developed using clipper and using the software developed by NIC using .NET. The NIC software is hosted in cloud and have various online payment modes. Besides, the consumers have the option of payment through the	...Presently the IT billing system of the Utility is functioning using proprietary software developed using clipper and using the software developed by NIC using .NET. The NIC software is hosted in cloud and have various online payment modes. Besides, the consumers have the option of payment through the bill counters. AMISP shall integrate the

		bill counters. AMISP shall integrate the new AMI system with the existing IT billing system as per standard interfaces mentioned in Section 6, clause 3.1 for seamless transformation to prepaid mode and vice versa for which necessary support will be extended by the Utility. Further, AMI system shall be integrated with the SCADA/DMS/OMS system, ERP system and new IT system proposed in the RDSS scheme for effective utilization of AMI resources for OMS applications. Besides, the new AMI system has also to be integrated with the existing Smart Grid Pilot AMI system to enable transformation of existing AMI consumers to pre-paid mode through MDM-MDM integration through IEC 61968. The New AMI system to be implemented for all the consumers of the Utility and shall cater to the future consumer growth for next 15 years...	new AMI system with the existing IT billing system as per standard interfaces mentioned in Section 6, clause 3.1 for seamless transformation to prepaid mode and vice versa for which necessary support will be extended by the Utility. Further, AMI system shall be integrated with the SCADA/DMS/OMS system, ERP system and new IT system proposed in the RDSS scheme for effective utilization of AMI resources for OMS applications. <b>Further, AMISP shall integrate the new AMI system with new IT billing system proposed under RDSS or with new Unified billing solution proposed by Ministry of Power (MoP), Govt. of India under RDSS as per the requirement of the Utility whenever such systems are available. The Utility shall facilitate the support of the vendors of other systems for such integration.</b> Besides, the new AMI system has also to be integrated with the existing Smart Grid Pilot AMI system to enable transformation of existing AMI consumers to pre-paid mode through MDM-MDM integration through IEC 61968. The New AMI system to be implemented for all the consumers of the Utility and shall cater to the future consumer growth for next 15 years...
43	Section 6. Clause 7.7, Note 2 to Table	The penalty, as mentioned above, shall be computed as per the performance deviated from the performance requirement. For instance, for SLA "Periodic collection of the interval load profile data for the day", if within 8 hours, data is received from only 94.6% meters which means deviation of 0.4%, then the penalty shall be computed as $\left(\frac{\max(0.4\%,1\%)}{1\%} \times 0.1\%\right) = 0.1\%$	The penalty, as mentioned above, shall be computed as per the performance deviated from the performance requirement. For instance, for SLA "Periodic collection of the interval load profile data for the day", if within 8 hours, data is received from only 94.6% meters which means deviation of 0.4%, then the penalty shall be computed as $\left(\frac{\max(0.4\%,1\%)}{1\%} \times 0.1\%\right) = 0.1\%$ $\left(\frac{\max(0.4\%,1\%)}{1\%} \times 0.2\%\right) = 0.2\%$
44	Section 6.	... Communication capabilities as per clause 1.4.36...	... Communication capabilities as per <b>relevant IS clause 1.4.36...</b>
45	Annexure A	...Immunity against abnormal Magnetic influence, as defined in Clause 1.4.37...	...Immunity against abnormal Magnetic influence, as defined in <b>relevant IS Clause 1.4.37...</b>
46		..Immunity against ESD as defined in clause 1.4.37...	..Immunity against ESD as defined in <b>relevant IS clause 1.4.37...</b>
47		..DC Immunity as defined in clause 1.4.38...	..DC Immunity as defined in <b>relevant IS clause 1.4.38...</b>
48		... Abnormal and tamper Conditions as per Table 4 - Tamper Event Details for Single Phase Smart Meters...	... Abnormal and tamper Conditions as per <b>relevant IS Table 4 - Tamper Event Details for Single Phase Smart Meters...</b>
49	Section Annexure C & D	...The CT operated meters would have capability to control external switching device. In future if such a connect-disconnect feature is available for CT operated meters, the provision for prepaid functionality shall be possible through software at MDM/ HES level...	<del>...The CT operated meters would have capability to control external switching device. In future if such a connect-disconnect feature is available for CT operated meters, the provision for prepaid functionality shall be possible through software at MDM/ HES level...</del>
50	Section Annexure L	Presently the IT billing system of the Utility is functioning using proprietary software developed using clipper and using the software developed by NIC using .NET. The NIC software is hosted in cloud and have various online payment modes. Besides, the consumers have the option of payment through the bill counters. AMISP shall integrate the new AMI system with	Presently the IT billing system of the Utility is functioning using proprietary software developed using clipper and using the software developed by NIC using .NET. The NIC software is hosted in cloud and have various online payment modes. Besides, the consumers have the option of payment through the bill counters. AMISP shall integrate the new AMI system with the existing IT billing system as per standard

		the existing IT billing system as per standard interfaces mentioned in Section 6, clause 3.1 for seamless transformation to prepaid mode and vice versa for which necessary support will be extended by the Utility. Further, AMI system shall be integrated with the SCADA/DMS/OMS system, ERP system and new IT system proposed in the RDSS scheme for effective utilization of AMI resources for OMS applications. Besides, the new AMI system has also to be integrated with the existing Smart Grid Pilot AMI system to enable transformation of existing AMI consumers to pre-paid mode through MDM-MDM integration through IEC 61968. The New AMI system to be implemented for all the consumers of the Utility and shall cater to the future consumer growth for next 15 years	interfaces mentioned in Section 6, clause 3.1 for seamless transformation to prepaid mode and vice versa for which necessary support will be extended by the Utility. Further, AMI system shall be integrated with the SCADA/DMS/OMS system, ERP system and new IT system proposed in the RDSS scheme for effective utilization of AMI resources for OMS applications. <b>Further, AMISP shall integrate the new AMI system with new IT billing system proposed under RDSS or with new Unified billing solution proposed by Ministry of Power (MoP), Govt. of India under RDSS as per the requirement of the Utility whenever such systems are available. The Utility shall facilitate the support of the vendors of other systems for such integration.</b> Besides, the new AMI system has also to be integrated with the existing Smart Grid Pilot AMI system to enable transformation of existing AMI consumers to pre-paid mode through MDM-MDM integration through IEC 61968. The New AMI system to be implemented for all the consumers of the Utility and shall cater to the future consumer growth for next 15 years
51	Section 6. Annexure P	...The meter box should neither melt nor become soft or distort when tested up to temperatures 2500C...	...The meter box should neither melt nor become soft or distort when tested up to temperatures <del>2500C</del> <b>250 Degree C</b> ...
52	(Specifications of LTCT Meter Box)	-	The boxes used for DT meters shall be supplied with fuse arrangements
53	Section 6. Annexure Q	Specifications of Service Cables	<b>This Annexure is not applicable</b>
54	Section 6. Annexure W	Technical Specifications of Standalone Modems	<b>This Annexure is not applicable</b>
55	Section 7. Clause 4.1	The ownership, rights and title to the AMI system and other equipment installed by AMISP for operation of the AMI system pursuant to this Contract shall vest with PFCCL during the entire Term of Contract.	The ownership, rights and title to the AMI system and other equipment installed by AMISP for operation of the AMI system pursuant to this Contract shall vest with <del>PFCCL</del> <b>AMISP</b> during the entire Term of Contract. <b>However, the lenders shall have first right on AMISP's assets subject to the fulfilment of the provisions in this Contract.</b>
56	Section 7. Clause 5.1.2	In the event any approval required for imports and/ or use of imported equipment is denied in accordance with all applicable laws including those in relation to testing issued by Ministry of Power (Order No No.9/16/2016-Trans-Part(2) dated 18 November 2020; as amended and/ or modified from time to time), the same shall neither entitle revision of Contract Price nor shall result in revision of the Project Implementation Plan as specified in Article 2.2 of this Contract	In the event any approval required for imports and/ or use of imported equipment is denied in accordance with all applicable laws including those in relation to testing issued by Ministry of Power (Order No No.9/16/2016-Trans-Part(2) dated 18 November 2020; as amended and/ or modified from time to time), the same shall neither entitle revision of Contract Price nor shall result in revision of the Project Implementation Plan <del>as specified in Article 2.2 of this Contract</del>
57	Section 7. Clause 5.2.6	AMISP will raise and deliver the invoice and the Deliverables mentioned above to PFCCL for the monthly payments within first 5 (five) working days of every month....	AMISP will raise and deliver the invoice and the Deliverables mentioned above to PFCCL for the monthly payments ( <b>excluding lumpsum payment against Auxiliary LT items</b> ) within first 5 (five) working days of every month....
58	Section 7. Clause	The Direct Debit Facility would include a bucket filling	The Direct Debit Facility would include a bucket filling approach whereby

	5.2.8	approach whereby all payments received by PFCCL from Utility will be routed directly through separate facility created by PFCCL to the AMISP's bank account till such time the undisputed amount of the payment due including amount due towards with supplementary invoice issued by AMISP is recovered in its entirety. Once the entire undisputed amount of the payment due including amount due towards with supplementary invoice is recovered, the Direct Debit Facility shall no longer transfer any money to the AMISP. In the event the overall monthly amount due to the AMISP (i.e. 100% of undisputed amount due to be paid including any amount due to be paid towards supplementary invoice issued by AMISP) as the sum of the payments from Utility is not reached till 10th working day of the next month, the same shall be paid along with the undisputed amount due to be paid including any amount to be paid towards supplementary invoice issued by AMISP for the immediately succeeding month. An illustration of the aforementioned Direct Debit Facility is provided in with Article 5.2 of this Contract.	all payments received by PFCCL from Utility will be routed directly through separate facility created by PFCCL to the AMISP's bank account till such time the undisputed amount of the payment due including amount due towards with supplementary invoice issued by AMISP is recovered in its entirety. Once the entire undisputed amount of the payment due including amount due towards <del>with</del> supplementary invoice is recovered, the Direct Debit Facility shall no longer transfer any money to the AMISP. In the event the overall monthly amount due to the AMISP (i.e. 100% of undisputed amount due to be paid including any amount due to be paid towards supplementary invoice issued by AMISP) as the sum of the payments from Utility is not reached till 10th working day of the next month, the same shall be paid along with the undisputed amount due to be paid including any amount to be paid towards supplementary invoice issued by AMISP for the immediately succeeding month. <b>An illustration of the aforementioned Direct Debit Facility is provided in with Article 5.2 of this Contract.</b>
59	Section 7. Clause 5.2.12	All payments under this AMISP Contract shall be made to the Lead Consortium Member and PFCCL shall have no role in inter se payments to the Consortium Members	<del>All payments under this AMISP Contract shall be made to the Lead Consortium Member and PFCCL shall have no role in inter se payments to the Consortium Members</del>
60	Section 7. Clause 5.2.13	Payment to the AMISP by PFCCL will be considered as an Operational Expenditure on PFCCL's account	<del>Payment to the AMISP by PFCCL will be considered as an Operational Expenditure on PFCCL's account.</del> For lumpsum payment against Auxiliary LT items, the AMISP shall raise and deliver a separate invoice on a quarterly basis and payment for the same shall be released by PFCCL through electronic mode in designated bank account of the AMISP on receipt of the corresponding amount by PFCCL from the Utility. The payment against this invoice shall not be included as part of the direct debit mechanism as mentioned in Article 5.2.8 above and PFCCL shall reconcile and release the undisputed payment within 60 (Sixty) days of receipt of invoices along with requisite documents. The disputed amount shall be dealt as per Article 13 of this Contract.
61	Section 7. Clause 5.2.14	-	All payments under this AMISP Contract shall be made to the Lead Consortium Member and PFCCL shall have no role in inter se payments to the Consortium Members
62	Section 7. Clause 5.2.15	-	AMISP service charge along with Lumpsum payment per meter paid by PFCCL to the AMISP will be considered as an Operational Expenditure on PFCCL's account
63	Section 7. Clause 7.1	Except in case of Force Majeure or where the delay in delivery of the Solution is caused due to any delay or default of PFCCL/	Except in case of Force Majeure or where the delay in delivery of the Solution is caused due to any delay or default of PFCCL/ Utility if the

		Utility if the Installation Milestone is delayed by more than 30 (thirty) months from the date of execution of the Contract the AMISP shall be liable to pay liquidated damages as per the rates specified in this Article	Installation Milestone is delayed by more than <del>30 (thirty)</del> <b>10 (ten)</b> months from the date of execution of the Contract the AMISP shall be liable to pay liquidated damages as per the rates specified in this Article
64	Section 7. Clause 11.5.4(a)	The present value of the receivables for the AMI system installed shall be calculated by multiplying the outstanding meter-months of operating the AMI system with percentage of total meters installed, integrated and operationalized as on the date of termination, and AMISP Service Charge, and discounting the same as on date of termination at the percentage specified in SCC (“Present Value”)	The present value of the receivables for the AMI system installed shall be calculated by multiplying the outstanding/ <b>remaining</b> meter-months of operating the AMI system with percentage of total meters installed, integrated and operationalized as on the date of termination, and AMISP Service Charge, and discounting the same as on date of termination at the percentage specified in SCC (“Present Value”)
65	Section 7. Clause 11.5.4(b)	All amounts due, but not paid by the Utility, including the aggregated amount due to be paid including amount due to be paid towards supplementary invoice, but not paid or recovered from the Utility, for the AMI system operations and maintenance as defined in the RFP by the AMISP, shall be calculated and factored in to arrive at the net outstanding receivables of the AMISP (“Outstanding Receivables”)	All amounts due, but not paid by <del>the Utility</del> <b>PFCCL</b> , including the aggregated amount due to be paid including amount due to be paid towards supplementary invoice, but not paid or recovered from <del>the Utility</del> <b>PFCCL</b> , for the AMI system operations and maintenance as defined in the RFP by the AMISP, shall be calculated and factored in to arrive at the net outstanding receivables of the AMISP (“Outstanding Receivables”)
66	Section 7. Clause 11.6.2(b)	...In such case, payments during the Exit Management Period shall be made in accordance with the Article 5.2 and 10.5 (as the case may be)	...In such case, payments during the Exit Management Period shall be made in accordance with the Article 5.2 and <del>10.5</del> <b>11.5</b> (as the case may be)
67	Section 7. Clause 13.3	Specifically, for the resolution of disputed payments, all disputes or differences in respect of which the decision, if any, has not become final or binding as aforesaid in Clause 13.2....	Specifically, for the resolution of disputed payments, all disputes or differences in respect of which the decision, if any, has not become final or binding as aforesaid in <del>Clause</del> <b>Article</b> 13.2....
68	Section 7. Clause 13.4	All disputes or differences in respect of which the decision, if any, has not become final or binding as aforesaid in Clause 13.2 or if the parties are not willing to refer the dispute to the CCIE....	All disputes or differences in respect of which the decision, if any, has not become final or binding as aforesaid in <del>Clause</del> <b>Article</b> 13.2 or if the parties are not willing to refer the dispute to the <del>CCIE</del> <b>dedicated Conciliation committee for RDSS....</b>
69	Section 7. Clause 13.7	Parties to Perform Obligations: Notwithstanding the existence of any Dispute and difference referred to the Arbitration Tribunal as provided in Article 13.3 ....	Parties to Perform Obligations: Notwithstanding the existence of any Dispute and difference referred to the Arbitration Tribunal as provided in Article <del>13.3</del> <b>13.4</b> ....
70	Section 7. Clause 14.1.7	The price variation for service	<del>The price variation for service</del>
71	Section 7. Clause 22.1	The AMISP shall not assign, in whole or in part, their obligations under this Contract without prior permission of PFCCL. Provided that, PFCCL shall permit assignment of rights, interests and obligations of AMISP to or in favour of Lenders as security for financing provided by the Lenders	The AMISP shall not assign, in whole or in part, their obligations under this Contract without prior permission of PFCCL. <del>Provided that, PFCCL shall permit assignment of rights, interests and obligations of AMISP to or in favour of Lenders as security for financing provided by the Lenders</del>
72	Section 7. Clause 22.2	The permission for assignment of whole or part of the AMISP’s obligations of this contract to any third party except the Lenders shall only be requested/permitted at least two years after Installation Milestone	The permission for assignment of whole or part of the AMISP’s obligations of this contract <del>to any third party except the Lenders</del> shall only be requested/permitted at least two years after Installation Milestone



73	Section 7. Clause 22.3	However, in case of default by the AMISP in debt repayments or in the event of default by the AMISP as per Clause 11 of Section 7, PFCCL may, on an application from the Lenders, assign the work under the AMISP contract to the nominee of the Lenders subject to the fulfilment of the qualification requirements and provisions of the Contract	However, in case of default by the AMISP in debt repayments or in the event of default by the AMISP as per <del>Clause</del> <b>Article</b> 11 of Section 7, PFCCL may, <del>on an application from</del> <b>facilitate</b> the Lenders, <del>assign to</del> <b>substitute</b> the <del>work under the</del> existing AMISP <del>contract to the</del> <b>with their</b> nominee <del>of the Lenders</del> <b>AMISP</b> subject to the fulfilment of the qualification requirements and provisions of the Contract <b>and subsequently execute an amendment to this Contract</b>
74	Section 7. Clause 31.1	PFCCL, at its discretion, may provide to the successful bidder an interest-bearing advance payment against an advance payment security furnished by the successful bidder in the form of a bank guarantee for [10] % of the Contract Price	PFCCL, at its discretion, may provide to the successful bidder an interest-bearing advance payment against an advance payment security furnished by the successful bidder in the form of a bank guarantee for <del>[10]</del> <b>15</b> % of the Contract Price
75	Section 7. Special Conditions of Contract, Clause 5.1.1	The Contract Price shall be equal to the summation of total amounts payable by PFCCL and shall comprise of following: 1. Total Cost for each category of meter as per Column G of Table 1 of Annexure to Form 1 of Section 5 of this RfP 2. Cost for executing new requirements for software components of the AMI system as per Column F of Table 2 of Annexure to Form 1 of Section 5 of this RfP on need basis as informed by PFCCL.	The Contract Price shall be equal to the summation of total amounts payable by PFCCL and shall comprise of following: 1. Total Cost for each category of meter as per Column G of Table 1 of Annexure to Form 1 of Section 5 of this RfP <b>2. Cost of Auxiliary LT items: DT Cable Supply, Installation, Commissioning &amp; other services as per Column E of Table 2 of Annexure to Form 1 of Section 5 of this RfP</b> 3. Cost for executing new requirements for software components of the AMI system as per Column F of Table <del>2</del> <b>3</b> of Annexure to Form 1 of Section 5 of this RfP on need basis as informed by PFCCL.
76	Section 7. Special Conditions of Contract, Clause 5.2.3	<b>Please refer Annexure-4 to this Amendment to RfP for modified Table</b>	
77	Section 7. Special Conditions of Contract, Clause 13.4 & 13.5	<b>Here 13.4 &amp; 13.5 may be read as 13.5 &amp; 13.6 respectively</b>	

## Annexure 1 to Amendment to RfP

S.No	Requirements	Supporting Documents
<b>Technical Requirements</b>		
1.	<p>Sole/ Lead Bidder must have either:</p> <p>(a) paid for, or received payments for, construction of Eligible Project(s);</p> <p style="text-align: center;"><u><b>Or</b></u></p> <p>(b) paid for development of Eligible project(s) in the Infrastructure sector in the last 7 (seven) Financial Years with aggregate project value of not less than INR 125 crore</p>	<p>a) References along with requisite contract/ Purchase Order (PO)/ Work Order (WO). The references should indicate client name, scope of work, Project start date (as per the format prescribed in Form 13 given in Section 4);</p> <p><b>In case Non-Disclosure agreement (NDA) is signed with the client, Bidder shall provide an undertaking for the NDA and shall also provide a client certification as proof of experience along with Client Name/ Email Address/ Contact no./ designation etc.</b></p>
2.	<p>Sole/ Lead Bidder/ any other Consortium Member must have experience of integration of head-end system with MDM on standard interfaces and data exchange models for at least 50,000 consumers/ end points (cumulatively) in an Indian/ Global Utility (power/ water/ natural gas/ telecom) in the last 7 (seven) years which are in operation for at least 1 (one) year.</p> <p><u><b>Or</b></u></p> <p>Sole/ Lead Bidder/ / any other Consortium Member should have installed, integrated, tested, and commissioned control center hardware (or on cloud) and application software for at least 50,000 endpoints (cumulatively) in an Indian/ Global Utility (power/ water/ natural gas/ telecom) in last 7 (seven) years which are in operation for at least 1(one) year</p>	<p>b) Documentary evidence of completion of the Project or completion of Go-live status (i.e., Go-live certificate, UAT testing certificate etc.) of the respective project as per the definition of Go-Live/ UAT specified therein or other documentary evidence indicating completion (e.g., proof of payment received/ proof of asset capitalized in books of accounts (as applicable) and client certificate for supply of material or similar proofs) along with contact details of the client;</p> <p>c) <del>Client certificate and</del> Any other documentation for implementation performance/ operation</p>
3.	The Sole/ Lead Bidder should have a valid pre-qualification and technical empanelment certificate for the required communication technology, issued by REC and approved by the committee constituted vide the letter issued by the Ministry of Power F.No.14/02/2021-UR&SI-II-Part(1)-(E-258136) dt. 10 <sup>th</sup> January 2022, at the time of bid submission.	Valid Empanelment certificate of the sole/ lead bidder for the proposed solution, issued by REC / committee constituted thereby
<b>Financial Requirements</b>		
4.	<p>The Bidder shall have positive net worth for each of the last three financial years. The Net worth of the Bidder should be at least INR 75 crore in any of the last three Financial Years</p> <p style="text-align: center;"><u><b>Or</b></u></p> <p>Bidder shall have a minimum ACI of INR 75 crore at the close of the preceding financial year</p> <p><i>[Net Worth means sum total of the paid up capital and free reserves (excluding reserves created out of revaluation) reduced by aggregate value of accumulated losses (including debit balance in profit and loss account for current year) and intangible assets.].</i></p> <p><i>[ACI means minimum investible funds (i.e., immediately available funds for investment and callable capital) subject to the limits of investment in a single investee entity (in the relevant jurisdiction for a Foreign Investment Fund, or the maximum permissible investment limit for an AIF) (as per the SEBI (AIF) Regulations, 2012, as may be amended from time to time), as applicable].</i></p> <p>Please note:</p> <p>a. In case a Bidder and/(or) it's Parent(s)/ Affiliate(s) has issued any fresh equity capital during the current financial year, the same shall be permitted to be added to the Bidder's Net Worth subject to the statutory auditor of the Bidder certifying to this effect.</p> <p>b. In case a Bidder and/(or) it's parent(s)/ Affiliate(s), being a SEBI registered AIF or Foreign Investment Fund, has received any fresh capital commitment available for the immediate deployment during the current financial year, the same shall be permitted to be added to the Bidder's ACI subject to the statutory auditor of the Bidder certifying to this effect.</p>	Audited Annual financial statements, Balance Sheet and P&L Account for the respective Financial Years as per the format prescribed in Form 12 given in Section 4

## Annexure 2 to Amendment to RfP

S. No.	Requirements	Supporting Documents
<b>A. Meter Manufacturer – Technical Requirements</b>		
A1.	<p><b>Option 1:</b> Should have manufactured and supplied minimum 1,00,000 nos. of Smart meters (cumulative) on proposed communication technology in Indian/Global Power Distribution Utility in the last 7 (seven) years.</p> <p><b>Option 2:</b> Should have manufactured and supplied minimum 20,00,000 nos. of static electricity meters (cumulative) in Indian/Global Power Distribution Utility in the last 7 (seven) years.</p> <p><b>Option 3:</b> Any meter manufacturer who doesn't satisfy Option 1 &amp; 2 but satisfies conditions (A2), (A3) &amp; (A4) below, can also be eligible to participate in the bid as a meter manufacturer. However, meters procured for this tender from this particular meter manufacturer/ supplier, shall be limited to 25% of the total meters proposed to be implemented as part of this tender.</p>	<p>a) References along with requisite contract/ Purchase Order (PO)/ Work Order (WO). The references should indicate client name, scope of work, Project start date (as per the format prescribed in Form 13); <b>In case Non-Disclosure agreement (NDA) is signed with the client, Bidder shall provide an undertaking for the NDA and shall also provide a client certification as proof of experience along with Client Name/ Email Address/ Contact no./ designation etc.</b></p> <p>b) Documentary evidence of completion of the Project or other documentary evidence indicating completion of supply (e.g. proof of payment received/ proof of asset capitalized in books of accounts (as applicable) and client certificate for supply of material or similar proofs) along with contact details of the client;</p> <p>c) <del>Client certificate and</del> Any other documentation for implementation performance/ operation</p>
A2.	<p>Smart meters shall have all the valid test certificate (issued within the last 5 years) and BIS certificate, compliant to IS 16444 Part-1*</p> <p><i>Note: *At the time of supply of LT-CT operated Meters, the smart meters shall have all the valid test certificate and BIS Certificate, compliant to IS 16444 Part-2.</i></p>	Valid BIS and type-test certificate to be submitted
A3.	Should have in-house NABL or ISO/ IEC -17025 accredited Laboratory	A valid registration certificate mentioning issue/renewal/expiry date.
A4.	Should have a valid ISO 9001:2015 certification	Copy of valid certificate
<b>B. Head End System (HES) solution provider – Technical Requirements</b>		
B1.	The HES solution should have been successfully integrated with at least 2 (two) different MDMS/ other utility IT Solution in Indian/ Global Utility(ies) (power/ water/ natural gas/ telecom) in last 7 (seven) years <b>which are in operation for at least 1(one) year.</b>	<p>Certificate / report issued by Client / MDMS OEM / solution provider.</p> <p><i>In case the HES solution provider, has integrated with their own MDMS, then a self-certification shall be provided.</i></p>
<b>C. Meter Data Management System (MDMS) solution provider – Technical Requirements</b>		
C1.	The proposed MDM solution should have been successfully integrated with at least 2 (two) nos. of different HES solutions in Indian/ Global Utility(ies) (power/ water/ natural gas/ telecom) in last 7 (seven) years <b>which are in operation for at least 1(one) year.</b>	<p>a) References along with requisite contract/ Purchase Order (PO)/ Work Order (WO). The references should indicate client name, scope of work, Project start date (as per the format prescribed in Form 13 given in Section 4); <b>In case Non-Disclosure agreement (NDA) is signed with the client, Bidder shall provide an undertaking for the NDA and shall also provide a client certification as proof of experience along with Client Name/Email Address/Contact no./designation etc.</b></p> <p>b) Documentary evidence of completion of the Project or completion of Go-live status (i.e., Go-live certificate, UAT testing certificate etc.) of the respective project as per the definition of Go-Live/ UAT specified therein or other documentary evidence indicating completion (e.g., proof of payment received/ proof of asset capitalized in books of accounts (as applicable) and client certificate for supply of material or similar proofs) along with contact details of the client</p> <p>c) Certificate / report issued by Client / HES OEM/ solution provider. <i>In case the MDMS solution provider, has integrated with their own HES, then a self-certification shall be provided.</i></p> <p>d) <del>Client certificate and</del> Any other documentation for implementation performance/ operation.</p>
C2.	The proposed MDM solution should have been successfully integrated with at least 2 (two) nos. of different Billing Systems in Indian/ Global Utility(ies) (power/ water/ natural gas/ telecom) or with Billing/ Other IT systems of 2 (two) different Indian/ Global Utility(ies) in last 7 (seven) years <b>which are in operation for at least 1(one) year.</b>	
C3.	Should have CMMi (Capability Maturity Model Integration) Level 3 or IEC/ISO 27001 Certification (Software Development & Customization), as the requirement may be	Copy of valid certificate

S. No.	Requirements	Supporting Documents
<b>D. System Integrator – Technical Requirements</b>		
D1.	Should have experience of integration of HES/MDMS etc. with at least 2 (two) billing / other utility IT systems in Indian/ Global Utility(ies) (power/ water/ natural gas/ telecom) in last 7 (seven) years, in which the meters are in operation for at least 1(one) year.	Certificate / report issued by Client / Billing system solution provider.
D2.	<ul style="list-style-type: none"> <li>Should have valid ISO 9001:2015 certification</li> <li>Should have IEC/ ISO 27001 certification or CMMi Level 3 (or above) certifications</li> </ul>	Copy of valid certificate
<b>E. RF Technology/ Solution Provider – Technical Requirements (If applicable)</b>		
E1.	The <del>Proposed</del> RF technology <del>by the RF</del> / Solution provider should have <del>been</del> implemented in project(s) with at least 50,000 (cumulatively) modules / endpoints involving Radio Frequency (RF) mesh in an Indian/ Global Utility (power/ water/ natural gas/ telecom) in the last 7 (seven) years <del>which are in operation for at least 1 (one) year.</del>	<p>a) References along with requisite contract/ Purchase Order (PO)/ Work Order (WO). The references should indicate client name, scope of work, Project start date (as per the format prescribed in Form 13 given in Section 4);  <b>In case Non-Disclosure agreement (NDA) is signed with the client, Bidder shall provide an undertaking for the NDA and shall also provide a client certification as proof of experience along with Client Name/ Email Address/ Contact no./ designation etc.</b></p> <p>b) Documentary evidence of completion of the Project or completion of Go-live status (i.e., Go-live certificate, UAT testing certificate etc.) of the respective project as per the definition of Go-Live/ UAT specified therein or other documentary evidence indicating completion (e.g., proof of payment received/ proof of asset capitalized in books of accounts (as applicable) and client certificate for supply of material or similar proofs) along with contact details of the client;</p> <p>c) <del>Client certificate and</del> Any other documentation for implementation performance/ operation.</p>
E2.	The RF <b>Technology</b> / Solution provider should have been in the communications network installation / maintenance services business for the last 1 (one) year in India. OR The RF <b>Technology</b> / Solution provider should have been in the communications network installation / maintenance services business for the last 3 (three) years outside of India.	<p>a) Certificate of Incorporation and Registration certificate along with Memorandum &amp; Articles of Association.</p> <p>b) Copy of valid Licenses (In case of RF, Valid certificate issued by Wireless Planning &amp; Coordination (WPC) Wing of the Ministry of Communications, GOI) <b>as on date of bid submission</b></p>
E3.	The RF <b>Technology</b> / Solution provider have successfully integrated their NIC/ Communication module with at least 3 (three) different makes of smart meters in India or Outside of India.	Signed agreements/ MoUs for integration of NIC module or Certificate of successful integration.

### Annexure 3 to Amendment to RfP

**A. Table 1 - Quoted Meter Rent**

S.No	Item Description (A)	Quantity in Nos. (B)	Rate per Unit including all taxes and duties other than GST (in INR/ month/ meter) (C)	GST applicable in % (D)	AMISP Service Charge (in INR/ month/ meter) (E = C x (1+D%))	Lumpsum payment per Unit (in INR/ meter) (F)*	Total cost for each category of meter (in INR) (G = B x (E X 90 months +F))
<b>1.</b>	<b>Meters (each with related meter box, hardware, software and equipment)</b>						
1.1	Single Phase Whole current Smart Meter 5-30A, 240V P-N (with Net Metering) – Consumer Meters with Meter Box, Back-end IT Infra with associated works and requisite no. of polycarbonate seal	3,46,992				900	
1.2	Three Phase Whole current Smart Meter 10-60A/ 20-100A, 3x240V P-N (with Net Metering) – Consumer Meter with Meter Box and Back-end IT Infra with associated works and requisite no. of polycarbonate seal	55,863				900	
1.3	HT Meters 3-phase (63.5V Ph-N, +/-5 A) (with Net Metering) – Consumer Meters with control cables, <del>with</del> without DI provisions Meter Box and Back-end IT Infra with associated works and requisite no. of polycarbonate seal	473				900	
1.4	HT Meters 3-phase (63.5V Ph-N, +/-5 A) (with Net Metering) – Feeder Meters with control cables, with DI provisions Meter Box and Back-end IT Infra with associated works and requisite no. of polycarbonate seal	180				15% of column G ÷ column B	
1.5	LT-CT Meters (3-phase 240V Ph-N, +/-5 A (with Net Metering) – Consumer Meters with control cables, without DI provisions Meter Box and Back-end IT Infra with associated works and requisite no. of polycarbonate seal	439				900	
1.6	LT-CT Meters (3-phase 240V Ph-N, +/-5 A) (with Net Metering) – DT Meters with CTs, control cables, with DI provisions Meter Box and Back-end IT Infra with associated works and requisite no. of polycarbonate seal	3,105				15% of column G ÷ column B	
	<b>Total</b>	<b>4,07,052</b>					

*\*Lumpsum amount shall be regulated as per RDSS Guidelines*

**B. Table 2 - Auxiliary LT items: DT Cable Supply, Installation, Commissioning & other services**

S. No.	Item Description (A)	Quantity in Kms (B)	Rate per Unit including all taxes and duties other than GST (in INR) (C)	GST applicable in % (D)	Total cost (E = B X C X (1+D))
<b>2.</b>	<b>DT Cable Supply, Installation, Commissioning &amp; other services</b>				
2.1	DT Cables	30			
	<b>Total</b>				

**Note:**

- a. Payment against Auxiliary LT items (i.e. DT cable) shall be paid to the AMISP on a lumpsum (capex) basis, as per terms and conditions of the AMISP contract.
- b. The cost of above auxiliary items (i.e. DT cable) shall not be included in the per meter per month cost to be discovered as part of the bidding process. Cost for these components shall be quoted separately under Table 2 above.
- c. Rate per unit quoted by the bidder for the above auxiliary items (i.e. DT cable) shall not exceed the estimated unit rate of Rs. 2,44,757.57 per Km (average of 240 sq mm, 300 sq mm & 400 sq mm rates discovered in IPDS/ DDUGJY tender).
- d. The cost under Table 1 and Table 2 are inclusive of supply, erection/ installation, setting up of the complete communication network & integration of items with existing system along with related hardware, software & equipment after successful completion of Field Installation and Integration Test (FIIT) as well as carrying out FMS activities as per RfP and any other activity for successful completion of the contract. The cost is also inclusive of all line items mentioned in Table 1 & Table 2 of Form 14 of Section 4 of RfP.

**C. Table 3 - Manpower Cost with respect to new requirement for Software Component**

S. No	Description (A)	Total Estimated Man-Month (B)	Man-Month Rate including all taxes and duties other than GST (in INR) (C)	GST applicable in % (D)	Man-Month Cost inclusive of GST (in INR) (E = C x (1+D%))	Total Manpower Cost (in INR) (F = ExB)
3.1	Architecture Specialists (Experience- 10+ years)	10				
3.2	Security Specialists (Experience- 10+ years)	10				
3.3	Integration Specialists (Experience- 10+ years)	10				
3.4	Data Base Developer- Sr. (Experience- 5+ years)	10				
3.5	Web/ Mobile Application Developer- Sr. (Experience- 5+ years)	10				
3.6	Core Application Developer- Sr. (Experience- 5+ years)	10				
3.7	Data Base Developer- Jr. (Experience- Less than 5 years)	10				
3.8	Web/ Mobile Application Developer- Jr. (Experience- Less than 5 years)	10				
3.9	Core Application Developer- Jr. (Experience- Less than 5 years)	10				
	<b>Total</b>					

*Estimated Man-Month mentioned in the above table is only for evaluation purpose. The actual payment to be made to AMISP would be based on the actual manpower deployment and man-month on pro-rata basis as per the new Software requirement. However, bidder has to quote Manpower Cost by considering the fact that manpower may be required for the entire period of the contract.*

**Total Cost of the Project** (Sub-total of Column G in Table 1 + Column E in Table 2 + Column F in Table 3) = **INR [X] crores**

## Annexure 4 to Amendment to RfP

S. No	Deliverable	Payment
1.	i. Monthly documentation/ records/ test certificates/ etc. during Post-Operational Go-Live Phase a. Monthly progress report briefing the status of installation of meters, <del>and meter boxes and service cables</del> on pro-rata basis, including problems that arise with the installed AMI system (if any) as well any cyber security related issues and corrective action taken by AMISP for the same; b. Change Notes c. Reports as mentioned in this Contract which includes but not limited to the following: i. Service Level Agreement (SLA) performance report; ii. Energy Audit report; iii. Other reports as per mentioned in Clause 6.2.2 of the Section 6;	= AMISP Service Charge (as per Table 1 of Annexure to Form 1 of Section 5 of RfP) X total number of meters in operation and maintenance phase at the end of each month Post-Operational Go-Live Plus Lumpsum payment rate per meter (as per Table 1 of Annexure to Form 1 of Section 5 of RfP) X total number of new smart meters installed and integrated for which Lumpsum payment has not been made earlier, if any Plus <del>Lumpsum payment towards installation and commissioning of auxiliary components (i.e. DT cable) on pro-rata basis (based on unit rate X quantity installed and commissioned) related to each meter (as per Table 2 of Annexure to Form 1 of Section 5 of RfP)</del> Plus Payment towards change request/new requirement completed, if any (as per Table 3 of Annexure to Form 1 of Section 5 of RfP) Plus Agreed rate for replacement of meters X Number of meters replaced due to vandalism, theft, etc.
2.	Quarterly documentation/ records/ test certificates/ etc. during Post-Operational Go-Live Phase a. As-Built Drawings; b. Updated consumer indexing as per the implemented AMI system; c. <b>Progress report briefing the status of installation of Auxiliary LT items (i.e. DT Cable) on pro-rata basis on quarterly basis</b>	<i>(To be made on every third month of each quarter of the Contract Period as defined by PFCCL)</i> = AMISP Service Charge X total number of meters in operation and maintenance phase at the end of each month Post-Operational Go-Live Plus Lumpsum payment rate per meter X total number of new smart meters installed and integrated for which Lumpsum payment has not been made earlier, if any Plus Payment towards change request/new requirement completed, if any Plus Agreed rate for replacement of meters X Number of meters replaced due to vandalism, theft, etc. Plus <b>Lumpsum payment towards installation and commissioning of auxiliary components (i.e. DT cable) on pro-rata basis (based on unit rate X quantity installed and commissioned) related to each meter (as per Table 2 of Annexure to Form 1 of Section 5 of RfP) (separate invoice)</b>
3.	Annual documentation/ records/ test certificates/ etc. during Post-Operational Go-Live Phase a. Cyber Security Audit; b. Data Privacy Audit report; c. Updated Exit Management Plan	<i>(To be made on every last month of each year of the Contract Period as defined by PFCCL)</i> = AMISP Service Charge X total number of meters in operation and maintenance phase at the end of each month Post-Operational Go-Live Plus Lumpsum payment rate per meter X total number of new smart meters installed and integrated for which Lumpsum payment has not been made earlier, if any Plus Payment towards change request/new requirement completed, if any Plus Agreed rate for replacement of meters X Number of meters replaced due to vandalism, theft, etc.

### **Note 1:**

As per RDSS Scheme, Utility shall receive Gross Budgetary Support (GBS) from Central Government of 15% of approved cost of the metering works including the operational cost:

- a. For consumer metering, GBS shall not be more than Rs. 900 per consumer. Accordingly, Utility shall provide to PFCCL a minimum lumpsum amount of INR 900 per meter calculated assuming smart metering cost of Rs. 6000 per meter over the project life which shall in turn be passed on to AMISP as lumpsum amount as per payment terms mentioned in the table above. In case the price discovered in the Bid is less than Rs. 6000 per meter over the project life, the Utility shall be eligible for GBS of 15% of the discovered cost only. In such a case, Utility will be required to pay the remaining amount to PFCCL to meet the minimum lumpsum payment requirement as provided in the RfP which shall in turn be passed on to AMISP.

- b. For DT/ Feeder metering, the Utility shall provide to PFCCL a minimum lumpsum amount of Rs. 3450 per DT meter calculated assuming smart metering cost of Rs. 23,000 per DT meter over the project life and a minimum lumpsum amount of Rs. 6300 per Feeder meter calculated assuming smart metering cost of Rs. 42,000 per Feeder meter over the project life which shall in turn be passed on to AMISP as lumpsum amount as per payment terms mentioned in the table above. In case the price discovered in the Bid is less than or greater than Rs. 23000 per DT meter or Rs. 42000 per Feeder meter over the project life, the Utility shall be eligible for GBS of 15% of the discovered cost and in turn, AMISP shall also be eligible for that amount as lumpsum amount.
- c. Additional incentive if any shall be passed on to AMISP based on the eligibility under RDSS guidelines and the AMISP service Charge to be payable shall be modified after deducting the additional incentive from cost of meter quoted by AMISP. Further, if the project is delayed beyond the project completion time mentioned in the contract due to reasons attributable to AMISP, the incentive received, if any, from Central Government shall be passed on after deducting the Liquidated Damages (LD) for such delay as per contract conditions

**Note 2:**

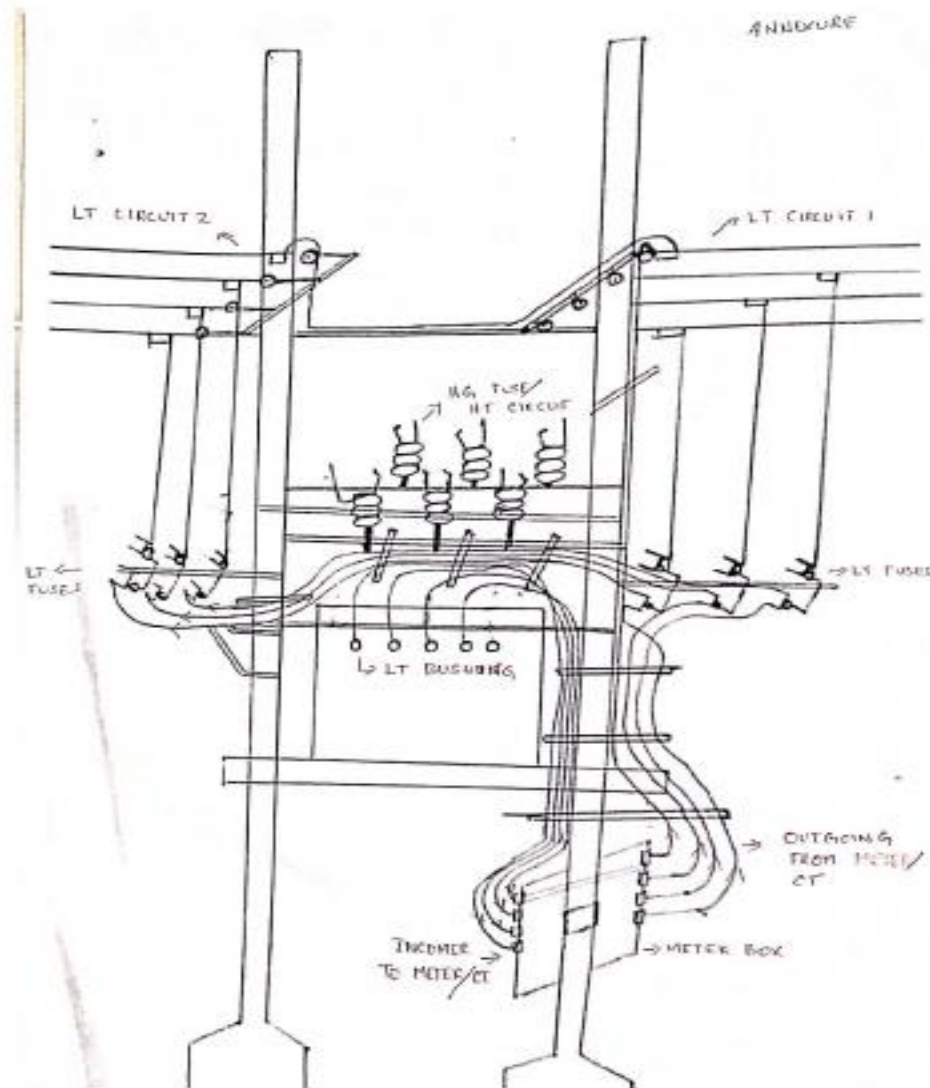
The following payments shall be made to AMISP on receipt of the corresponding amount from the Utility:

- a. Lumpsum payment as per Table 1 of Annexure to Form 1 of Section 5 of RfP
- b. Lumpsum payment towards installation & commissioning of auxiliary components (i.e. DT cable) as per Table 2 of Annexure to Form 1 of Section 5 of RfP
- c. Payment towards change request/new requirement completed, if any, as per Table 3 of Annexure to Form 1 of Section 5 of RfP
- d. Payment towards replacement of meters due to vandalism, theft, etc.



Drawings/ Arrangements of the existing metering arrangements at Distribution Transformers

1. DT Metering arrangement drawing



## 2. DT Metering arrangement



### 3. Feeder Metering arrangement

