

14.03.2023

GeM Bid No: GEM/2023/B/3138132 dated: 15.02.2023

## Clarification 1: Pre-Bid Clarifications and Amendments

| #  | Reference Clause or Pg. No.   | Bidder's Query  | Clause as per RFP   | Clarification to bidder  | Nature of comments |
|----|---|---|---|--|--------------------|
| 1. | Pg. 13/442<br>Section 1: Request for Proposal Notice<br>Section 3: Instructions to Bidders and Bid Data Sheet | Kindly confirm the amount for bid security is either INR 77,40,00 or INR 1,06,64,000  | Table: Important Dates, Amounts and Other Details Bid Security (Refundable): INR 77,40,000<br><br>Clause 12.2 Currency and the amount of Bid Security to be furnished by the Bidder is: Amount: Rs. 1,06,64,400/-   | Bid Security (Refundable): INR 1,06,64,400   | Amendment          |
| 2. | Pg. 253/442<br>Section 3. Project requirement   | RPO time as per version 4 of Standard Bidding document (SBD) is 2 hours.<br>It is requested to kindly align the RPO interval time as per SBD version 4. | Clause 2.7.3.3.9<br><br>b) Recovery Point Objective (RPO): Interval of time that may pass during a disruption before the quantity of lost data during that period exceeds the business continuity plan's maximum allowable threshold. The RPO of 15 Minutes shall be met by a suitable backup and replication strategy of operational data / application. | Tender condition shall prevail.  | Clarification      |
| 3. | Pg. 247/442<br>Section 3. Project requirement   | In the view of timeline for installation of smart meters. It is requested to keep the sample size of such test at 5% as per SBD version 4.              | Clause 9.2.5.2 d<br><br>ii. In addition to the above, the utility reserves the right to carry out accuracy tests, in line with the above guidelines, in their own Meter testing Laboratory for each lot. The sample size for such test  | In addition to the above, the utility reserves the right to carry out accuracy tests, in line with the above guidelines, in their own Meter testing Laboratory for each lot. The sample size for such test | Amendment          |

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|    |  |  | would be 100% of the smart meters of each lot  | would be 5% of the smart meters of each lot.  |                    |
| 4. | Pg. 177/442<br>Section 3.<br>Project requirement     | Meter reading interval for system metering is mentioned as 30 min under this clause and in rest of document it is mentioned as 15 min. Kindly confirm the meter reading interval for system metering.                  | Clause 2.3<br>b) 30 min for system metering and 30 min for consumer metering interval meter reads  | The Meter reading interval shall be as follows:<br>System Meter: 30 Minutes<br>Consumer Meter: 30 Minutes   | Clarification      |
| 5. | Pg. 221/442<br>Section 6.<br>Project Requirements    | Please confirm the total number of consumers for whom the consumer indexing is to be done in the project area including both contiguous and non-contiguous areas.  | Clause 4.1<br>m. AMISP shall be responsible for consumer indexing and energy accounting at the Distribution Transformer level as given in scope irrespective of the project area being Contiguous or Non-Contiguous. | The area wise consumers are given as Annexure A below. The bidder is requested carry out its own field survey for better understanding  | Clarification      |
| 6. | Pg. 233/442<br>Section 6.<br>Project Requirements    | It is requested to align the Energy accounting SLA with SBD version 4 in accordance with the AMISP scope of Feeder meters as defined in the RFP, i.e., From 100% of installed Feeder meters within 384 hours (16 days) | Clause 7.7<br>Generation of monthly energy audit and reliability indices report<br>6. From 100% of installed Feeder meters by utility/ party designated by utility within 384 hours (16 days)                        | 6. From 100% of installed Feeder meters within 384 hours (16 days)  | Amendment          |
| 7. | Pg. 233/442<br>Annexure M:<br>Additional Requirement | Provision of capturing data from smart meters via optical cable should also be included as it will allow deployment of a cost-effective solution.  | Smart Meters to be equipped with suitable technology (IR/RF/etc) for wireless communication with HHU, if required, for capturing data at local level ensuring due security measures.                                 | Bidder shall provide suitable hardware/mechanism in Smart meters/External to utility for reading the Smart Meters wirelessly ( <i>considering that installation shall be majorly on poles</i> ) in case of non-communication and shall have | Amendment          |

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|     | s/Specifications                           |  |                   | <p>ability to upload the data on HES/MDM for further processing.</p> <p>The bidder shall propose the infrastructure to read the meter during such times.</p> <p>The above provision shall be in addition to the scope of AMISP for Manual meter read through HHU in case of non-communication as mentioned in Section 6 Clause 7.8</p> |                            |
| 8.  | Pg. 51,178/442<br>ITB 27,<br>Section 6 2.3 | Quantity variation may be up-to +40% but scalability required is 30%. Ideally both quantities should be same otherwise quantity variation beyond 30% will not be accommodated.   |                   | Scalability shall be upto 40%  | Clarification              |
| 9.  | Section 5                                  | No of consumers/Smart meters to be hosted on MDM may please be specified. The form mentions performance level for 17.70 consumers/Smart Meters. Should it be assumed, considering the size of the consumer base that eventually all consumers shall be hosted on the proposed MDM solution under this scope. |                   | System that supports the collection and storage of data for meeting the performance level for 7.28 lakh no of consumers/ Smart Meters with scalability of 40% of overall scope.  | Amendment                  |
| 10. | Pg. 195/442<br>Section 6:<br>2.5.2.1       | Consumer Portal/App: Shall the solution involve deployment of a completely new mobile App? Also considering that the utilities prefer a unified consumer   |                   | The solution shall involve development and live deployment of a new mobile APP which shall be available on Android, iOS, Web portal etc. and shall take  | Clarification and Addendum |

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|     |  | interface, is it possible that eventually all consumers shall be hosted on the proposed mobile App/ Consumer Portal?   |                   | onboard all active consumers of KPDCL to ensure deployment of a unified consumer Web Self Service platform scalable up to 20 lac consumers.   |                    |
| 11. | Pg. 422/442<br>Section 7:<br>III, 1.2.12 | The Meter month Calculation has been done on the basis of x90 however it should be x93. This will change the O&M period of the contract.   |                   | This has been updated vide pt. 27 & 28 below.   | Clarification      |
| 12. | Section 8:<br>Form 5                     | The Direct Debit facility shall be established by the PIA or the Utility?  |                   | The DDF Facility shall be established between PIA and AMISP   | Clarification      |
| 13. | General                                  | Considering that the utility's Billing system with which the AMI system is to be integrated is still under implementation, provisions in the RFP for any delay on account of this or any other works not in the scope of the AMISP should be made to ensure GO-Live without such dependencies. |                   | <p>KPDCL is implementing C2M billing solution on Oracle CCB utilities platform which is scheduled to be commissioned by December 2023. However, in current Oracle CCB 2.7 and Legacy Power Care billing software, there is provision to port bill determinants from HES/MDM in flat file form, which will be handled by IT team of KPDCL.</p> <p>The bidder shall have to integrate &amp; synchronize the master data from Oracle CCB 2.7. Further, the CCB migration to new billing system and integrating with MDM shall be undertaken by KPDCL.</p> <p>Accordingly, the AMISP shall be required to provide the billing determinants to KPDCL in flat file form to be eligible for payment. Further after</p> | Clarification      |

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|     |  |   |   | integration with C2M, the payment shall be as per the provisions of RFP.   |                    |
| 14. | General  | The RFP nowhere mentions details of the project area. An indicative distribution of the project area would facilitate in determining the appropriate communication technology and other site requirements.  |   | The project area is the of Kashmir Administrative division of the UT of Jammu and Kashmir and electricity distribution network being catered to by Kashmir Power Distribution Corporation Limited. Also added in Annexure A. | Clarification      |
| 15. | Pg 20/442<br>A1 Option 1,2 and 3<br>Section2. Eligibility Requirement<br>s | <p>We request you to kindly modify the clause as "Option 1: Should have manufactured and supplied minimum <b>50,000 nos</b> of Smart meters (cumulative) on any communication technology in Indian/Global Power Distribution Utility in the last 7 (seven) years."</p> <p><b>Rationale:</b> This ensures AMISP has maximum options for MM OEMs which allows them to choose meters from multiple OEMs, <b>get maximum price benefits (as competition increases) and a healthy supply chain during project execution.</b></p> <p>It will be in the interest of the Discom to make this criteria relaxed, as the supplies of the OEMs -meeting the current criteria mentioned in the RfP-are largely blocked</p> | <p>Option 1:<br/>Should have manufactured and supplied minimum <b>1,00,000 nos.</b> of Smart meters (cumulative) on proposed communication technology in Indian/Global Power Distribution Utility in the last 7 (seven) years</p> | Tender condition shall prevail.  | Clarification      |

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|     |                             | in other state discom contracts, relaxing this criteria will <b>derisk the implementation of this project.</b>  |                   |   |                    |
| 16. | General Suggestion          | <p>In India currently, almost 250M meters are being tendered out within the next few months. However, the country has limited manufacturing and implementation capacity. Just a few AMISPs are taking up contracts for large quantities of meters, with some of them having no experience of deploying meters at scale in India.</p> <p>Since Discom would like to implement the project in a time bound manner, we would also like to make a suggestion that <b>bidders with outstanding orders or existing commitments for more than 300% of the tendered quantity</b> should not be allowed to bid, <b>this is to reduce the implementation risk for the DISCOM.</b></p> |                   | Tender condition shall prevail.   | Clarification      |
| 17. | Pg 388/442<br>Cl. 5.2.11    | We request you to kindly clarify on how it will be determined -during the project period-whether the meter has failed due to manufacturing defects or due to consumer /infrastructure fault   |                   | The same shall be carried out through Root cause analysis as per prevailing practices of utility. | Clarification      |

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|--------|--|---|--|--|--------------------|--------------------------|-------------------------------------|--------------------|--|--|--|--|---------------|
| 18.    | Pg. 268/442<br>Table Sr.<br>No. 16         | We request you to kindly change the operating temperature range and make it similar to the storage temperature range - as the temperatures in the project area are generally very low and when the meter restarts after the power outage the operating temperature is below -20 Deg., hence we request to kindly modify the temperature range as :<br>“-Operating temperature -25 to 55 Deg “<br>This will ensure that the meters supplied work under extreme weather conditions. | Resistance against climatic influence (as per IS 13779)<br><br>- Storage temperature - 25 to 70 Deg as per IS 13779, 2020<br><br>-Operating temperate -10 to 55 Deg as per IS 13779, 2000 ( out door)<br><br>Meter OEM to produce data sheet of components, if so required during detailed engineering, from component manufacturers indicating temperature range. | The condition has been mentioned as per IS 13779, 2020.<br><br>Further, bidders are requested to carry out site survey and provide components to operate in all weather conditions of Kashmir region.<br><br>Meter OEM to produce data sheet of components, if so required during detailed engineering, from component manufacturers indicating temperature range. | Clarification      |                          |                                     |                    |  |  |  |  |               |
| 19.    | General Clarification                      | We request you to kindly clarify if the neutral cable is missing/unavailable in any of the project areas then it will be the responsibility of the DISCOM to provide that cabling and any delay in installation due to this shall not be the responsibility of the AMISP.   |  | Discom shall Provide the neutral cable is missing/unavailable in any of the project areas  | Clarification      |                          |                                     |                    |  |  |  |  |               |
| 20.    | Pg.163/442<br>Cl. 1.2 The AMI Project Area | We request you to kindly share the Project Area data in excel as per the format below. This data will be required to assess and identify the associated implementation challenges and will help the bidders to incorporate the cost in the price bid to mitigate these challenges.  |  | <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Circle/District/Division</th> <th>% of collection from online payment</th> <th>Meter Failure rate</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>   | Sr. No             | Circle/District/Division | % of collection from online payment | Meter Failure rate |  |  |  |  | Clarification |
| Sr. No | Circle/District/Division                   | % of collection from online payment   | Meter Failure rate   |  |                    |                          |                                     |                    |  |  |  |  |               |
|        |  |   |  |  |                    |                          |                                     |                    |  |  |  |  |               |

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|--------|--|---|--------------------|---|-------------------------------------|--------------------|-----------------|--|--|---|--|-----|--------------|--|
|        |  | <table border="1" data-bbox="275 334 674 597"> <tr> <td data-bbox="275 334 327 597">Sr. No</td> <td data-bbox="327 334 407 597">Circle /District/Division</td> <td data-bbox="407 334 510 597">% of collection from online payment</td> <td data-bbox="510 334 590 597">Meter Failure rate</td> <td data-bbox="590 334 674 597">DT Failure rate</td> </tr> </table> <p data-bbox="275 618 787 748">In case the above data is available on the public domain or on the Discom website, we request you to please share the link for the same.</p> | Sr. No             | Circle /District/Division   | % of collection from online payment | Meter Failure rate | DT Failure rate |  | <table border="1" data-bbox="1348 334 1858 597"> <tr> <td data-bbox="1348 334 1415 597">1</td> <td data-bbox="1415 334 1581 597">Circle-06 Nos<br/>District -10 Nos<br/>Division-19 Nos</td> <td data-bbox="1581 334 1728 597">55%</td> <td data-bbox="1728 334 1858 597">Less Than 1%</td> </tr> </table> | 1 | Circle-06 Nos<br>District -10 Nos<br>Division-19 Nos | 55% | Less Than 1% |  |
| Sr. No | Circle /District/Division                            | % of collection from online payment   | Meter Failure rate | DT Failure rate   |                                     |                    |                 |  |  |   |  |     |              |  |
| 1      | Circle-06 Nos<br>District -10 Nos<br>Division-19 Nos | 55%   | Less Than 1%       |   |                                     |                    |                 |  |  |   |  |     |              |  |
| 21.    | Pg. 308/442 Annexure M                               | Please share the technical specification of wireless HHU.   |                    | <p data-bbox="1348 781 1858 1052">Bidder shall provide suitable hardware/mechanism in Smart meters/External to utility for reading the Smart Meters wirelessly (<i>considering that installation shall be majorly on poles</i>) in case of non-communication and shall have ability to upload the data on HES/MDM for further processing.</p> <p data-bbox="1348 1068 1858 1166">The bidder shall propose the infrastructure to read the meter during such times.</p> <p data-bbox="1348 1182 1858 1352">The above provision shall be in addition to the scope of AMISP for Manual meter read through HHU in case of non-communication as mentioned in Section 6 Clause 7.8</p> | Amendment                           |                    |                 |  |  |   |  |     |              |  |



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| 22. | Pg. 13/442<br>Section 1:<br>Request for<br>Proposal<br>Notice<br>TABLE<br>Important<br>Dates,<br>Amounts<br>and Other<br>Details | From our experiences drawn from similar opex based projects we submit that a detailed due diligence along with an area survey are essential elements of developing a bid strategy that ensures successful delivery of the project. In view of the above, we request you to extend the Bid Deadline by 15 (fifteen) days. | c) Last date for submission of e-bid Date: 17 March 2023  | The same shall be as mentioned/extension, if any, on GeM portal.   | Clarification      |
| 23. | Pg. 32/442<br>Section 3.<br>Instructions<br>to Bidders<br>and Bid Data<br>Sheet<br>2.<br>Introduction                            | Utility is requested to clarify the maximum size of technical bid file permitted for online submission on the e-portal.  | 2.2 Bidding against the Request for Proposal shall be under Two Envelope Single Stage<br><br>Bidding Process. The bidding process will be conducted online with Electronic – Procurement System (e- Procurement/ e-Tendering/ e- Bidding System/GeM) as specified in BDS. | The bids will be accepted through GEM portal only and the bidders are advised to review the guidelines for uploading the bids on GeM portal. | Clarification      |
| 24. | Pg. 46/442<br>Section 3.<br>Instructions<br>to Bidders<br>and Bid Data<br>Sheet  | In view of any restriction on uploading size of technical bid on e-portal, it is requested to permit the bidder to submit abridged version of technical bid along with submission of complete hard copy.   | 17.8 In case of discrepancy between the electronically submitted documents and the physically submitted documents in the sealed envelope, the electronically submitted documents and the information contained therein shall  | The bids will be accepted through GEM portal only and the bidders are advised to review the guidelines for uploading the bids on GeM portal. | Clarification      |

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|     | C. Submission, Opening and Evaluation  | Thus, it is requested to consider hard copy equivalent to online submission.  | prevail and be treated as the final submission.  |   |                    |
| 25. | Pg. 54/442<br>Section 3. Instructions to Bidders and Bid Data Sheet<br>1 (oo) of E. Bid Data Sheet | Kindly also provide the quantity of phase wise smart meters to be installed in each town of KPDCL.  |  | Attached as <b>Annexure A</b>   | Clarification      |
| 26. | Pg. 113/442<br>Section 4.<br>Form 20: Pre-Contract Integrity Pact                                  | It is requested to provide the relevant details to be filled in the blank space mentioned for Buyer in the Integrity Pact.  | This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on day of the month of 2021, between, on one hand, the ..... (Name of Owner) acting through Shri..... (Name and designation of Project Manager)..... | Name of Owner – REC Power Development and Consultancy Limited (RECPDCL)<br>Name and Designation of Project Manager – Sh. Jaidev Banerjee, HoD – Distribution -II                | Addendum           |
| 27. | Pg. 136/442<br>Section 4.<br>Form 21: Data Requirement Sheet                                       | Kindly confirm the understanding that:<br>“System that supports the collection and storage of data for meeting the performance level for 7.28 lakh no of consumers/ Smart Meters with scalability of 30% of overall scope.” | System that supports the collection and storage of data for meeting the performance level for 17.70 lakh no of consumers/ Smart Meters with scalability of 30% of overall scope.   | System that supports the collection and storage of data for meeting the performance level for 7.28 lakh no of consumers/ Smart Meters with scalability of 40% of overall scope. | Amendment          |

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|     | Clause 8:<br>MDMS   |  |  |   |                    |
| 28. | Pg. 156/442<br>Section 5.<br>Table: Bill of Materials and Services for Smart Meters     | It is requested to clarify number of CTs required per DT meter.  | Three phase LT-CT operated Smart Meter (with Net-Metering) – DT Meter with CTs, control cables, with DI provisions Meter Box and Back-end IT Infra with associated works and requisite no. of polycarbonate seal   | Four Nos. of CT are required to be installed per DT | Addendum           |
| 29. | Pg. 164/442<br>Section 6.<br>Project Requirements;<br>Clause 1.4<br>Brief Scope of Work | It is suggested that the civil works for dismantling the existing structures and put-up new structures should be carried out by Utility.                         | I (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 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. | Conditions in the RfP shall prevail                 | Clarification      |
| 30. | Pg. 164/442<br>Section 6.<br>Project Requirements;<br>2.4.3 Meter Data                  | It is requested to kindly confirm that the period is either 10 years from date of execution of contract or date of completion of contract, whichever is earlier. | c) The MDM shall provide storage and retrieval of all collected Meter Data, events and alarm. It shall have capacity of storing 10 years data via archiving  | 10 years from date of execution of contract.        | Clarification      |

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| 31. | Pg. 218/442<br>Section 6.<br>Project Requirement s;<br>3.1 MDM Integration | Kindly provide the quantity and specifications of Hand Held Unit (HHU). | HHU/CMRI or manual reading system etc. | <p>A total of sixty-seven (67) HHUs shall be required,</p> <p>Bidder shall provide suitable hardware/mechanism in Smart meters/External to utility for reading the Smart Meters wirelessly (<i>considering that installation shall be majorly on poles</i>) in case of non-communication and shall have ability to upload the data on HES/MDM for further processing.</p> <p>The bidder shall propose the infrastructure to read the meter during such times.</p> <p>The above provision shall be in addition to the scope of AMISP for Manual meter read through HHU in case of non-communication as mentioned in Section 6 Clause 7.8</p> | Amendment          |

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| 32. | Pg. 230/442<br>Section 6. Project Requirements;<br>Clause 7.5: Meter Accuracy Tests | Since, all the smart meters are being tested and sealed by the utility. Therefore, it is understood that the cost of testing the meters at CPRI Lab/ Utility Lab/ NABL accredited Lab shall be borne by the utility. Please clarify if our understanding is correct. | In case a Consumer complains about meter accuracy post operational go-live and same isn't reasonably resolved through past consumption trend, Transformer Energy Audit, Check Meter (by Utility), etc. AMISP will be obliged to facilitate the meter testing. In this regard, AMISP shall handover the meter for testing to CPRI Lab/ Utility Lab/ NABL accredited Lab and install a temporary meter till the period of removal and replacing meter, if found inaccurate or reinstall if found accurate. | The Cost of the testing shall be borne by the AMISP in case failure attributable to AMISP, otherwise testing charges shall be borne by the consumer.   | Clarification      |
| 33. | Pg. 281/442<br>Section 6. Project Requirements<br>Annexure C                        | It is requested to provide details of accessories required for meter installation like clamps, civil structure, cables, lugs thimble, lugs, connectors, etc.   | Three phase CT operated alternating current Smart Meter of Accuracy Class 0.5S (DT Meter, LT-CT Meter, etc.)   | Cables, Lugs specification mentioned in Annexure Q, R & W respectively.<br>Clamps/Civil works to be provided by the AMISP as per site to ensure proper mounting & assembly.  | Clarification      |
| 34. | Pg. 286/442<br>Section 6. Project Requirements<br>Annexure D                        | It is requested to provide details of accessories required for meter installation like clamps, civil structure, cables, lugs thimble, lugs, connectors, etc.<br>Are these accessories covered in scope of the bidder?  | Annexure D Three phase CT/PT operated alternating current Smart Meter of Accuracy Class 0.5S/  | The accessories are in the scope of AMISP.<br>Cables, Lugs specification mentioned in Annexure Q, R & W respectively.<br>Clamps/civil work to be provided by the AMISP as per site to ensure proper mounting & assembly. | Clarification      |

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| 35. | Section 7<br>Contract forms and Conditions<br>Payment Mechanism<br>Clause 5.2.7           | Kindly confirm the understanding the Direct Debit Facility is established between RECPDCL and AMISP? Further this establishment of Direct Debit Facility | PIA shall, as a condition precedent to the award of the contract to the selected bidder and after establishment of a fund transfer facility by the Utility in favor of PIA, establish a Direct Debit Facility for the payments received from the Utility to ensure recovery of the amount due to be paid to the AMISP including amount due to be paid towards supplementary invoice. In this regard, PIA shall create a separate facility for receipt of payment by PIA from Utility. This facility shall be configurable for direct debit of 100% (hundred percent) of the monthly payment due to the AMISP. | The Direct Debit Facility shall be established between AMISP and RECPDCL. The funds arrangement from KPDCL shall be undertaken by RECPDCL.                              | Clarification      |
| 36. | Pg. 13/442<br>Section 1<br>Request for Proposal<br>Notice<br>TABLE<br>Amounts for Bidding |  | Bid Security (Refundable): INR 77,40,000  | Bid Security (Refundable): INR 1,06,64,400  | Amendment          |
| 37. | Pg. 261/442<br>Section 6.<br>Project  |  | 4 <sup>th</sup> Milestone - Delivery, site installation, integration and operationalization of [5%] of Smart Meters each with related hardware, software and equipment and successful operational go-live   | 4 <sup>th</sup> Milestone - Delivery, site installation, integration and operationalization of minimum 5% or 35,000 of Smart Meters whichever is less each with related | Amendment          |

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|-----|--|----------------|--|---|--------------------|
|     | Requirements<br>12. Project Implementation Schedule  |                |  | hardware, software and equipment and successful operational go-live<br><br>Further, bidder shall be required to install 1,00,000 Smart Meters by 7 <sup>th</sup> Month after award of contract  |                    |
| 38. | Pg. 422/442<br>Section 7. Contract Forms and Conditions of Contract<br>III. Special Conditions of Contract<br>1.2.12 |                | <p>The methodology for determining the 'Total Meter-Months' as well as 'Operation and Maintenance Period of the AMI system' is provided below:</p> <p>Assuming a deployment of 7.28 Lakh Smart Meters to be installed in Project area A, 'Total Meter-Months' is determined as below:</p> <p>'Total Meter-Months' = (Total number of smart Meters to be installed in the AMI Project X 90 months) = 7.28 Lakh meters X 90 months = 6,55,06,860 meter-months (A)</p> <p>The implementation of the AMI system is aligned to the schedule provided above. This implies the following:</p> <p>a) 35,000 Smart Meters (5% of total) are operationalized at the end of 7th Month from date of execution of the Contract;</p> <p>b) From there on, ~29,902 Smart Meters (4.108% of total) are operationalized every month till 3,63,927</p> | <p>The methodology for determining the 'Total Meter-Months' as well as 'Operation and Maintenance Period of the AMI system' is provided below:</p> <p>Assuming a deployment of 7.28 Lakh Smart Meters to be installed in Project area A, 'Total Meter-Months' is determined as below:</p> <p>'Total Meter-Months' = (Total number of smart Meters to be installed in the AMI Project X 93 months) = 7.28 Lakh meters X 93 months = 6,76,90,422 meter-months (A)</p> <p>The implementation of the AMI system` is aligned to the schedule provided above. This implies the following:</p> <p>a) 1,00,000 Smart Meters (15% of total) are operationalized at the end of 7th Month from date of execution of the Contract;</p> <p>b) From there on, ~ 23,993 Smart Meters (4.108% of total) are operationalized every month till 3,63,927</p> | Amendment          |

| #     | Reference Clause or Pg. No.  | Bidder's Query | Clause as per RFP  | Clarification to bidder | Nature of comments           |              |   |        |   |   |        |        |   |        |        |    |         |        |    |         |         |   |       |                              |              |   |         |   |   |         |         |   |         |         |    |         |         |    |         |         |  |
|-------|------------------------------|----------------|--|-------------------------|------------------------------|--------------|---|--------|---|---|--------|--------|---|--------|--------|----|---------|--------|----|---------|---------|---|-------|------------------------------|--------------|---|---------|---|---|---------|---------|---|---------|---------|----|---------|---------|----|---------|---------|--|
|       |                              |                | <p>Smart Meters (50% of total) are operationalized at the end of 18th Month from date of execution of the Contract;</p> <p>c) From there on, 40,436 Smart Meters (~5.5566 % of total) are operationalized every month till 7,27,854 smart meters (100% of total) are operationalized at the end of 27th Month from date of execution of the Contract.</p> <p>The accrual of meter-months will commence as soon as the first lot of 5% of total Smart Meters are installed and operationalized at the end of 7th Month from date of execution of the Contract. Hence, 'Meter-Months' of AMI system operated after operational go-live is determined as below:</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Total Smart Meters Installed</th> <th>Meter-Months</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>35,000</td> <td>-</td> </tr> <tr> <td>8</td> <td>64,902</td> <td>35,000</td> </tr> <tr> <td>9</td> <td>94,805</td> <td>64,902</td> </tr> <tr> <td>10</td> <td>124,707</td> <td>94,805</td> </tr> <tr> <td>11</td> <td>154,610</td> <td>124,707</td> </tr> </tbody> </table> | Month                   | Total Smart Meters Installed | Meter-Months | 7 | 35,000 | - | 8 | 64,902 | 35,000 | 9 | 94,805 | 64,902 | 10 | 124,707 | 94,805 | 11 | 154,610 | 124,707 | <p>Smart Meters (50% of total) are operationalized at the end of 18th Month from date of execution of the Contract;</p> <p>c) From there on, 40,436 Smart Meters (~5.5566 % of total) are operationalized every month till 7,27,854 smart meters (100% of total) are operationalized at the end of 27th Month from date of execution of the Contract.</p> <p>The accrual of meter-months will commence as soon as the first lot of 15% of total Smart Meters are installed and operationalized at the end of 7th Month from date of execution of the Contract. Hence, 'Meter-Months' of AMI system operated after operational go-live is determined as below:</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Total Smart Meters Installed</th> <th>Meter-Months</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>100,000</td> <td>-</td> </tr> <tr> <td>8</td> <td>123,993</td> <td>100,000</td> </tr> <tr> <td>9</td> <td>147,987</td> <td>123,993</td> </tr> <tr> <td>10</td> <td>171,980</td> <td>147,987</td> </tr> <tr> <td>11</td> <td>195,974</td> <td>171,980</td> </tr> </tbody> </table> | Month | Total Smart Meters Installed | Meter-Months | 7 | 100,000 | - | 8 | 123,993 | 100,000 | 9 | 147,987 | 123,993 | 10 | 171,980 | 147,987 | 11 | 195,974 | 171,980 |  |
| Month | Total Smart Meters Installed | Meter-Months   |  |                         |                              |              |   |        |   |   |        |        |   |        |        |    |         |        |    |         |         |   |       |                              |              |   |         |   |   |         |         |   |         |         |    |         |         |    |         |         |  |
| 7     | 35,000                       | -              |  |                         |                              |              |   |        |   |   |        |        |   |        |        |    |         |        |    |         |         |   |       |                              |              |   |         |   |   |         |         |   |         |         |    |         |         |    |         |         |  |
| 8     | 64,902                       | 35,000         |  |                         |                              |              |   |        |   |   |        |        |   |        |        |    |         |        |    |         |         |   |       |                              |              |   |         |   |   |         |         |   |         |         |    |         |         |    |         |         |  |
| 9     | 94,805                       | 64,902         |  |                         |                              |              |   |        |   |   |        |        |   |        |        |    |         |        |    |         |         |   |       |                              |              |   |         |   |   |         |         |   |         |         |    |         |         |    |         |         |  |
| 10    | 124,707                      | 94,805         |  |                         |                              |              |   |        |   |   |        |        |   |        |        |    |         |        |    |         |         |   |       |                              |              |   |         |   |   |         |         |   |         |         |    |         |         |    |         |         |  |
| 11    | 154,610                      | 124,707        |  |                         |                              |              |   |        |   |   |        |        |   |        |        |    |         |        |    |         |         |   |       |                              |              |   |         |   |   |         |         |   |         |         |    |         |         |    |         |         |  |
| Month | Total Smart Meters Installed | Meter-Months   |  |                         |                              |              |   |        |   |   |        |        |   |        |        |    |         |        |    |         |         |   |       |                              |              |   |         |   |   |         |         |   |         |         |    |         |         |    |         |         |  |
| 7     | 100,000                      | -              |  |                         |                              |              |   |        |   |   |        |        |   |        |        |    |         |        |    |         |         |   |       |                              |              |   |         |   |   |         |         |   |         |         |    |         |         |    |         |         |  |
| 8     | 123,993                      | 100,000        |  |                         |                              |              |   |        |   |   |        |        |   |        |        |    |         |        |    |         |         |   |       |                              |              |   |         |   |   |         |         |   |         |         |    |         |         |    |         |         |  |
| 9     | 147,987                      | 123,993        |  |                         |                              |              |   |        |   |   |        |        |   |        |        |    |         |        |    |         |         |   |       |                              |              |   |         |   |   |         |         |   |         |         |    |         |         |    |         |         |  |
| 10    | 171,980                      | 147,987        |  |                         |                              |              |   |        |   |   |        |        |   |        |        |    |         |        |    |         |         |   |       |                              |              |   |         |   |   |         |         |   |         |         |    |         |         |    |         |         |  |
| 11    | 195,974                      | 171,980        |  |                         |                              |              |   |        |   |   |        |        |   |        |        |    |         |        |    |         |         |   |       |                              |              |   |         |   |   |         |         |   |         |         |    |         |         |    |         |         |  |



14.03.2023

GeM Bid No: GEM/2023/B/3138132 dated: 15.02.2023

| # | Reference Clause or Pg. No. | Bidder's Query | Clause as per RFP |         |         | Clarification to bidder |         |         | Nature of comments |
|---|-----------------------------|----------------|-------------------|---------|---------|-------------------------|---------|---------|--------------------|
|   |                             |                | 12                | 184,512 | 154,610 | 12                      | 219,967 | 195,974 |                    |
|   |                             |                | 13                | 214,415 | 184,512 | 13                      | 243,960 | 219,967 |                    |
|   |                             |                | 14                | 244,317 | 214,415 | 14                      | 267,954 | 243,960 |                    |
|   |                             |                | 15                | 274,220 | 244,317 | 15                      | 291,947 | 267,954 |                    |
|   |                             |                | 16                | 304,122 | 274,220 | 16                      | 315,941 | 291,947 |                    |
|   |                             |                | 17                | 334,025 | 304,122 | 17                      | 339,934 | 315,941 |                    |
|   |                             |                | 18                | 363,927 | 334,025 | 18                      | 363,928 | 339,934 |                    |
|   |                             |                | 19                | 404,363 | 363,927 | 19                      | 404,364 | 363,928 |                    |
|   |                             |                | 20                | 444,800 | 404,363 | 20                      | 444,800 | 404,364 |                    |
|   |                             |                | 21                | 485,236 | 444,800 | 21                      | 485,237 | 444,800 |                    |
|   |                             |                | 22                | 525,672 | 485,236 | 22                      | 525,673 | 485,237 |                    |
|   |                             |                | 23                | 566,109 | 525,672 | 23                      | 566,109 | 525,673 |                    |
|   |                             |                | 24                | 606,545 | 566,109 | 24                      | 606,546 | 566,109 |                    |
|   |                             |                | 25                | 646,981 | 606,545 | 25                      | 646,982 | 606,546 |                    |
|   |                             |                | 26                | 687,418 | 646,981 | 26                      | 687,419 | 646,982 |                    |
|   |                             |                | 27                | 727,854 | 687,418 | 27                      | 727,855 | 687,419 |                    |

| # | Reference Clause or Pg. No. | Bidder's Query | Clause as per RFP  |          |           | Clarification to bidder  |         |           | Nature of comments |
|---|-----------------------------|----------------|--|----------|-----------|--|---------|-----------|--------------------|
|   |                             |                | Total  | 7,27,854 | 67,15,559 | Total  | 727,855 | 71,50,695 |                    |
|   |                             |                | <p>Basis the above table, the AMI System would have been already operational for 67,15,559 meter-months prior to Installation Milestone (B)</p> <p>Hence, AMI system will remain operational for the remaining Contract period, i.e.,</p> <p>= ['Total Meter-Months' (A) – 'Meter-Months' of prior to Installation Milestone (B)] (C)</p> <p>= (6,55,06,860 – 67,15,559) meter-months</p> <p>= 5,87,91,301 meter-months (C)</p> <p>Time period (in months) for operating AMI system after Installation Milestone is,</p> <p>= [Remaining 'Meter-Months' / (Total number of Smart Meters installed in the AMI Project)] (D)</p> <p>= 5,87,91,301/7,27,854</p> <p>= ~80.77 months</p> <p>Hence the Total 'Operation and Maintenance period of the AMI system' = (Months of operating Smart meters prior to Installation Milestone + 'Months' of operating AMI system after</p> |          |           | <p>Basis the above table, the AMI System would have been already operational for 71,50,695 meter-months prior to Installation Milestone (B)</p> <p>Hence, AMI system will remain operational for the remaining Contract period, i.e.,</p> <p>= ['Total Meter-Months' (A) – 'Meter-Months' of prior to Installation Milestone (B)] (C)</p> <p>= (6,76,90,442– 71,50,695) meter-months</p> <p>= 6,05,39,747meter-months (C)</p> <p>Time period (in months) for operating AMI system after Installation Milestone is,</p> <p>= [Remaining 'Meter-Months' / (Total number of Smart Meters installed in the AMI Project)] (D)</p> <p>= 6,05,39,747/7,27,854</p> <p>= ~83.18 months</p> <p>Hence the Total 'Operation and Maintenance period of the AMI system' = (Months of operating Smart meters prior to Installation Milestone + 'Months' of operating AMI system after</p> |         |           |                    |

14.03.2023

GeM Bid No: GEM/2023/B/3138132 dated: 15.02.2023

| #   | Reference Clause or Pg. No.                                    | Bidder's Query | Clause as per RFP  | Clarification to bidder   | Nature of comments |
|-----|--|----------------|--|---|--------------------|
|     |  |                | of operating AMI system after Installation Milestone) = 20 months + 80.77 months = 100.77 months   | Installation Milestone) = 20 months + 83.18 months = 103.18 months  |                    |
| 39. | Pg. 177/442<br>Section 3.<br>Project requirement               |                | 2.3<br>a) Up to 7.28 Lacs numbers of meters with further scalability 30% of overall scope  | 2.3<br>a) Up to 7.28 Lacs numbers of meters with further scalability 40% of overall scope   | Amendment          |
| 40. | Section 6:<br>Project requirement of RfP<br>&<br>Financial Bid |                | 3. AMI System Integration<br>Clause 3.1<br>c) HHUI/CMRI or manual reading system etc.<br><br>7. Operation and Maintenance<br>Clause 7.8<br>F. Feedback<br>8. Manual Meter reading through HHU in case on Non-Communication of Smart Meters<br><br>Annexure H<br>8. Energy Accounting System<br>MDM can create.... gathered manually through HHU...the data | With respect to Pt. No. 7, 21, 31 above, HHU shall mean CMRI, or any other requisite equipment for reading the smart meter locally and wirelessly for subsequent upload of data in HES/MDM. | Amendment          |

14.03.2023

GeM Bid No: GEM/2023/B/3138132 dated: 15.02.2023

| # | Reference Clause or Pg. No. | Bidder's Query | Clause as per RFP  | Clarification to bidder | Nature of comments |
|---|-----------------------------|----------------|--|-------------------------|--------------------|
|   |                             |                | Annexure M Additional requirement and Specifications<br>2 Smart Meter....wireless communication with HHU.... Security measures<br>&<br>Financial Bid |                         |                    |

14.03.2023

GeM Bid No: GEM/2023/B/3138132 dated: 15.02.2023

## Annexure A

| Sr Nos | Name of the Circle  | Name of the District | Name of the Division | Balance to be proposed under RDSS (Nos.) |      |      |       | Proposed DT Meters (Nos.) | Proposed Feeder Meters |
|--------|---------------------|----------------------|----------------------|--|------|------|-------|---------------------------|------------------------|
|        |                     |                      |                      | 1-Ph                                     | 3-Ph | LTCT | 5     |                           |                        |
| 1      | 2                   | 3                    | 4                    | 1-Ph                                     | 3-Ph | LTCT | 5     | 6                         | 7                      |
| 1      | Circle-Bijbehara    | Anantnag             | ED-Anantnag          | 61041                                    | 1700 | 306  | 63047 | 2978                      |                        |
| 2      | Circle-Bijbehara    | Anantnag             | ED-Bijbehara         | 43259                                    | 1205 | 217  | 44681 | 1795                      | 259                    |
| 3      | Circle-Bijbehara    | Kulgam               | ED-Kulgam            | 51959                                    | 1447 | 260  | 53666 | 2424                      |                        |
| 4      | Circle-Pulwama      | Pulwama              | ED-Awantipora        | 41352                                    | 1152 | 207  | 42711 | 2231                      | 197                    |
| 5      | Circle-Pulwama      | Pulwama              | ED-Pulwama           | 35984                                    | 1002 | 180  | 37167 | 2410                      |                        |
| 6      | Circle-Pulwama      | Shopian              | ED-Shopian           | 34658                                    | 965  | 174  | 35797 | 2027                      |                        |
| 7      | Circle-2nd Srinagar | Budgam               | ED-Budgam            | 90817                                    | 2529 | 455  | 93801 | 5681                      | 150                    |
| 8      | Circle-Ganderbal    | Bandipora            | ED-Bandipora         | 19164                                    | 535  | 69   | 19767 | 900                       |                        |
| 9      | Circle-Ganderbal    | Ganderbal            | ED-Ganderbal         | 40062                                    | 1117 | 144  | 41323 | 1973                      | 143                    |
| 10     | Circle-Ganderbal    | Bandipora            | ED-Sumbal            | 19602                                    | 547  | 70   | 20219 | 1186                      |                        |
| 11     | Circle-Sopore       | Baramulla            | ED-Baramulla         | 44348                                    | 1237 | 159  | 45744 | 2507                      |                        |
| 12     | Circle-Sopore       | Kupwara              | ED-Handwara          | 33190                                    | 926  | 119  | 34235 | 1624                      | 332                    |

14.03.2023

GeM Bid No: GEM/2023/B/3138132 dated: 15.02.2023

| Sr Nos             | Name of the Circle  | Name of the District | Name of the Division | Balance to be proposed under RDSS (Nos.) |      |     |               | Proposed DT Meters (Nos.) | Proposed Feeder Meters |
|--------------------|---------------------|----------------------|----------------------|--|------|-----|---------------|---------------------------|------------------------|
|                    |                     |                      |                      |  |      |     |               |                           |                        |
| 13                 | Circle-Sopore       | Kupwara              | ED-Kupwara           | 29479                                    | 822  | 106 | 30407         | 2156                      |                        |
| 14                 | Circle-Sopore       | Baramulla            | ED-Sopore            | 39795                                    | 1110 | 143 | 41048         | 2605                      |                        |
| 15                 | Circle-Sopore       | Baramulla            | SSD-Tangmarg         | 21199                                    | 591  | 76  | 21866         | 1240                      |                        |
| 16                 | Circle-1st Srinagar | Srinagar             | ED-1st Srinagar      | 26322                                    | 734  | 94  | 27151         | 1931                      | 214                    |
| 17                 | Circle-1st Srinagar | Srinagar             | ED-4th Srinagar      | 19470                                    | 543  | 70  | 20083         | 1496                      |                        |
| 18                 | Circle-2nd Srinagar | Srinagar             | ED-2nd Srinagar      | 9120                                     | 254  | 33  | 9407          | 2290                      | 190                    |
| 19                 | Circle-2nd Srinagar | Srinagar             | ED-3rd Srinagar      | 3470                                     | 97   | 12  | 3579          | 1216                      |                        |
| <b>Grand Total</b> |                     |                      |                      |  |      |     | <b>685699</b> | <b>40670</b>              | <b>1485</b>            |