

BHOLA PALLI BIDYUT SAMITY  
BANGLA BAZAR, BHOLA



ISO 9001:2015 Certified

**TENDER DOCUMENT**

*for*

**PROCUREMENT OF SOLAR ENERGY FROM 4.136 MWP  
ROOFTOP SOLAR SYSTEM IN BHOLA PALLI BIDYUT  
SAMITY (LALMOHON UPAZILLA) AREA ON BOO (BUILD,  
OWN, OPERATE) BASIS FOLLOWING OPEX MODEL.**

*[One Stage Two Envelope Tendering]*

**Tender Invitation No. : 27.12.0929.156.01.014.26.304**

**Date : 27-01-2026**

BHOLA PALLI BIDYUT SAMITY  
**January, 2026**

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## Section-I: Instructions to Tenderers

### A. General

|                           |     |  |
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| <b>1. Scope of Tender</b> | 1.1 | The Procuring Entity, as indicated in the Tender Data Sheet ( <b>TDS</b> ) issues this Tender Document for the supply and installation of plant and equipment incidental thereto as specified in the <b>TDS</b> and as detailed in <b>Section 6: Schedule of Requirements</b> . The name of the Tender and the number and identification of its constituent lot(s) are stated in the <b>TDS</b> .  |
|                           | 1.2 | The successful Tenderer shall be required to execute the Plant and Equipment as specified in the General Conditions of Contract and Particular Conditions of Contract.   |
| <b>2. Interpretation</b>  | 2.1 | <p>(a) the term “in writing” means communication written by hand or machine duly signed and includes properly authenticated messages by facsimile or electronic mail;</p> <p>(b) if the context so requires, singular means plural and vice-versa;</p> <p>(c) “day” means calendar days unless otherwise specified as working days;</p> <p>(d) “Person” means and includes an individual, body of individuals, sole proprietorship, partnership, company, association or cooperative society, NGO that wishes to participate in Procurement proceedings;</p> <p>(e) “Tenderer” means a Person who submits a Tender;</p> <p>(f) “Tender Document” means the Document provided by a Procuring Entity to a Tenderer as a basis for preparation of the Tender; and</p> <p>(g) “Tender” depending on the context, means a Tender submitted by a Tenderer for delivery of Goods to a Procuring Entity in response to an Invitation for Tender.</p> <p>(h) “BPPA” means the Bangladesh Public Procurement Authority formed under the Bangladesh Public Procurement Authority Act, 2023.</p> |
| <b>3. Source of Funds</b> | 3.1 | The Procuring Entity has been allocated public funds as indicated in the <b>TDS</b> and intends to apply a portion of the funds to eligible payments under the Contract for which this Tender Document is issued.  |
|                           | 3.2 | For the purpose of this provision, “public funds” means any monetary resources appropriated to the Procuring Entity under Government budget, or financing, grants and credits placed at the disposal of the Procuring Entity through the Government by the development partners or foreign states or organisations and also includes any fund of a government, semi-government or a statutory body established by law.   |
|                           | 3.3 | Payments by the development partner, if so indicated in the <b>TDS</b> , will be made only at the request of the Government and upon approval by the development partner or foreign state or Organisation in accordance with the applicable Financing/   |

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|   |     | Credit/Grant Agreement, and will be subject in all respects to the terms and conditions of that Agreement.  |
| <b>4. Corrupt, Fraudulent, Collusive, Coercive or Obstructive Practices</b> | 4.1 | The Government, and the Development Partner, if applicable, requires that the Procuring Entity as well as the Tenderers and Contractors (including sub-contractors, agents, personnel, consultants, and service providers) shall observe the highest standard of ethics during implementation of procurement proceedings and the execution of Contracts under public funds.   |
|   | 4.2 | <p>For the purposes of ITT Sub Clause 4.3, the terms set forth below as follows:</p> <p>(a) <b>“Corrupt practice”</b> means offering or promising to offer, directly or indirectly, any bribe, employment, valuable item or service, or financial benefit to any officer or employee of the Procuring Entity or of any other public or private authority, with the intent to influence any act, decision, or procedure of the Procuring Entity in the course of the procurement process or contract execution, or the acceptance or solicitation of such by any officer or employee of the Procuring Entity. It shall also include any involvement of the Procuring Entity or any of its employees in corrupt, fraudulent, collusive, coercive, or obstructive practices as mentioned in this Rule;</p> <p>(b) <b>“Fraudulent practice”</b> means any act of providing false statements, dishonestly concealing information, or omitting or misrepresenting or distorting facts by any person to influence a decision in the procurement process or contract execution;</p> <p>(c) <b>“Collusive practice”</b> means a scheme or arrangement between two (2) or more Persons, knowingly or unknowingly involving the Procuring Entity or any of its employees, that is designed to arbitrarily reduce the number of Tenders submitted or fix Tender prices at artificial, non-competitive levels, thereby denying the Procuring Entity the benefits of competitive price arising from genuine and open competition;</p> <p>(d) <b>“Coercive practice”</b> means harming or threatening to harm, directly or indirectly, Persons or their property to influence a decision to be taken in the Procurement proceeding or the execution of a Contract, and this will include creating obstructions in the normal submission process used for Tenders.</p> <p>(e) <b>“Obstructive practice”</b> means deliberately destroying, falsifying, altering, or concealing evidence related to a procurement-related investigation, or providing false statements to an investigator so as to impede the investigation of allegations of corrupt, fraudulent, collusive, coercive, or obstructive practices; or intimidating, harassing, or threatening an investigator so as to discourage the disclosure of information or prevent the investigator from carrying out their duties, or directly</p> |

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|  |     | or indirectly obstructing any action undertaken by the Bangladesh Public Procurement Authority (BPPA) in discharging its responsibilities assigned under the Bangladesh Public Procurement Authority Act, 2023.  |
|  | 4.3 | Should any corrupt, fraudulent, collusive, coercive or obstructive practice of any kind be determined by the Procuring Entity or the Development Partner, if applicable, this will be dealt in accordance with the provisions of the Public Procurement Act 2006 and Public Procurement Rules, 2025 and Guidelines of the Development Partners as stated in the ITT sub-clause 3.3.  |
|  | 4.4 | <p>If corrupt, fraudulent, collusive, coercive or obstructive practices of any kind is determined by the Procuring Entity against any Tenderer or Contractors (including sub-contractors, agents, personnel, consultants, and service providers) in competing for, or in executing, a contract under public fund:</p> <ul style="list-style-type: none"> <li>(a) Procuring Entity and/or the Development Partner shall exclude the concerned Tenderer from further participation in the concerned procurement proceedings;</li> <li>(b) Procuring Entity and/or the Development Partner shall reject any recommendation for award that had been proposed for that concerned Tenderer;</li> <li>(c) Procuring Entity and/or the Development Partner shall declare, at its discretion, the concerned Tenderer to be ineligible to participate (debarment) in any Public Procurement proceedings for a specific period of time;</li> <li>(d) Procuring Entity shall suspend the concerned Tenderer from participating in any other procurement proceedings within the PE organization for the period of finalizing the debarment process;</li> <li>(e) Development Partner shall sanction the concerned Tenderer or individual, at any time, in accordance with prevailing Development Partner' sanctions procedures, including by publicly declaring such Tenderer or individual ineligible, either indefinitely or for a stated period of time: (i) to be awarded a Development Partner-financed contract; and (ii) to be a nominated sub-contractor, consultant, manufacturer or Contractor, or service provider of an otherwise eligible firm being awarded a Development Partner-financed contract; and</li> <li>(f) Development Partner shall cancel the portion of the financing allocated to a contract if it determines at any time that representatives of the Procuring Entity or of a beneficiary of the financing engaged in corrupt, fraudulent, collusive, coercive or obstructive practices during the procurement or the execution of that Development Partner financed</li> </ul> |

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|  |  | contract, without the Procuring Entity having taken timely and appropriate action satisfactory to the Development Partner to remedy the situation. |
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|                              | 4.5 | Tenderer shall be aware of the provisions on corruption, fraudulence, collusion, coercion and obstruction of the Public Procurement Act, 2006, the Public Procurement Rules, 2025 and others as stated in <b>GCC Clause 38</b> .  |
|                              | 4.6 | In further pursuance of this policy, Tenderers, Contractors and their sub-contractors, agents, personnel, consultants, service providers shall permit the Government, the BPPA and the Development Partner to inspect any accounts and records and other documents relating to the Tender submission and contract performance, and to have them audited by auditors appointed by the Government, the BPPA and/or the Development Partner during the procurement or the execution of that Development Partner financed contract. |
| <b>5. Eligible Tenderers</b> | 5.1 | This Invitation for Tenders is open to all potential Tenderers from all countries, except for any specified in the <b>TDS</b> .   |
|                              | 5.2 | Tenderers shall have the legal capacity (not barred by Public Procurement Act or any other law(s) to sign the contract) to enter into the Contract under the Applicable law.  |
|                              | 5.3 | Tenderers shall be enrolled in the relevant professional or trade organisations registered in its own country.  |
|                              | 5.4 | Tenderers may be a physical or juridical individual or body of individuals, or company, association or any combination of them in the form of a Joint Venture (JV) invited to take part in public procurement or seeking to be so invited or submitting a Tender in response to an Invitation for Tenders.  |
|                              | 5.5 | Tenderers shall have fulfilled its obligations to pay taxes and social security contributions, if any, under the provisions of laws and regulations of the country of its origin.   |
|                              | 5.6 | Tenderers should not be associated, or have been associated in the past, directly or indirectly, with a consultant or any of its Partners which have been engaged by the Procuring Entity to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the works to be performed under this Invitation for Tenders.  |
|                              | 5.7 | Tenderers in its own name or its other names or also in the case of its Persons in different names shall not be under a declaration of ineligibility due to suspension or debarment for   |

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|      | corrupt, fraudulent, collusive, coercive or obstructive practices as stated under ITT Sub Clause 4.4.   |
| 5.8  | Tenderers are not currently restrained due to suspension or debarred from participating in Public Procurement on grounds of fundamental breach of contract under any Contract.  |
| 5.9  | Tenderers shall not be insolvent, be in receivership, be bankrupt, be in the process of bankruptcy, be not temporarily barred from undertaking business and it shall not be the subject of legal proceedings for any of the foregoing.  |
| 5.10 | Government-owned enterprise in Bangladesh may also participate in the Tender if it is legally and financially autonomous, it operates under commercial law, and it is not a dependent agency of the Procuring Entity.   |
| 5.11 | Tenderers shall provide such evidence of their continued eligibility satisfactory to the Procuring Entity, as the Procuring Entity will reasonably request.   |
| 5.12 | These above requirements for eligibility will extend, as applicable, to each JV partner and Subcontractor proposed by the Tenderers.  |
| 5.13 | A Tenderer shall not have a conflict of interest. Any Tenderer found to have a conflict of interest shall be disqualified. A Tenderer may be considered to have a conflict of interest for the purpose of this Tendering process, if the Tenderer: <ul style="list-style-type: none"> <li>a) directly or indirectly controls, is controlled by or is under common control with another Tenderer; or</li> <li>b) receives or has received any direct or indirect subsidy from another Tenderer; or</li> <li>c) has the same legal representative as another Tenderer; or</li> <li>d) has a relationship with another Tenderer, directly or through common third parties, that puts it in a position to influence the Tender of another Tenderer, or influence the decisions of the procuring entity regarding this tendering process; or</li> <li>e) any of its partners participated as a consultant in the preparation of the design or technical specifications of the Goods that are the subject of the Tender.</li> </ul> |
| 5.14 | A Tenderer shall provide its/their Beneficial Ownership related information, as the specified in <b>Form PG5A-2</b> , if it/they will be awarded the contract and declare their consent on publishing that information publicly following the signing of contract.  |
| 5.15 | A tenderer has not been under restriction imposed by any Development Partner operating in Bangladesh on grounds related to their procurement affairs.   |

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| <b>6. Eligible Plants and Services</b> | 6.1 | All plants and services to be supplied under the Contract are from eligible sources, unless their origin is from a country specified in the TDS and all expenditures under the contract will be limited to such plant, and services.   |
|  | 6.2 | <p>For purposes of this Clause, the term “<b>Plant</b>” means permanent plant, equipment, machinery, apparatus, articles and things of all kinds to be provided in the facilities; and “installation services” means all those services ancillary to the supply of the Plant for the Facilities, such as transportation and provision of marine or other similar insurance, inspection, expediting, site preparation, installation, testing, pre-commissioning, commissioning, operations, maintenance, the provision of operations and maintenance manuals, training etc.</p> <p>For the purposes of this Clause, “origin” means the country where the plant, or component parts thereof are mined, grown, produced or manufactured, and from which the services are provided. Plant components are produced when, through manufacturing, processing, or substantial or major assembling of components, a commercially recognized product results that is substantially different in its basic characteristics or in purpose or utility from its components or country where the goods have been mined, grown, cultivated, produced, manufactured or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components or the place from which the related services are supplied.</p> |
|  | 6.3 | The origin of plant and equipment and associated services is distinct from the nationality of the Tenderer. The nationality of the firm that produces, assembles, distributes, or sells the goods shall not determine their origin.  |
| <b>7. Site Visit</b>                   | 7.1 | The Tenderer is advised to visit and examine the site where the plant is to be installed and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the tender and entering into a contract for the provision of Plant and Installation Services.  |
|  | 7.2 | The Tenderer and any of its personnel or agents will be granted permission by the Procuring Entity to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Tenderer, its personnel, and agents will release and indemnify the Procuring Entity and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.   |
|  | 7.3 | The Tenderer should ensure that the Purchaser is informed of the visit in adequate time to allow it to make appropriate arrangements.  |
|  | 7.4 | The costs of visiting the Site shall be at Tenderer’s own expense.   |

## B. Tender Document

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| <b>8. Tender Document: General</b>         | 8.1  | <p>The Sections comprising the Tender Document are listed below, and should be read in conjunction with any Addendum issued under ITT Clause 11.</p> <ul style="list-style-type: none"> <li>• Section 1 Instructions to Tenderers (ITT)</li> <li>• Section 2 Tender Data Sheet (<b>TDS</b>)</li> <li>• Section 3 General Conditions of Contract (GCC)</li> <li>• Section 4 Particular Conditions of Contract (<b>PCC</b>)</li> <li>• Section 5 Tender and Contract Forms</li> <li>• Section 6 Procuring Entity's Requirements</li> <li>• Section 7 Drawings</li> </ul> |
|  | 8.2  | The Procuring Entity is not responsible for the completeness of the Tender Document and their addenda, if these were not purchased directly from the Procuring Entity, or through its agent as specified in the <b>TDS</b> .   |
|  | 8.3  | Tenderers are expected to examine all instructions, forms, terms, and specifications in the Tender Document as well as in addendum to Tender, if any.  |
| <b>9. Clarification of Tender Document</b> | 9.1  | A prospective Tenderer requiring any clarification of the Tender Document shall contact the Procuring Entity in writing at the Procuring Entity's address and within time as specified in the <b>TDS</b> .   |
|  | 9.2  | The Procuring Entity is not obliged to answer any clarification request received after that date as stated under ITT Sub Clause 9.1.   |
|  | 9.3  | The Procuring Entity shall respond in writing within five (5) working days of receipt of any such request for clarification received under ITT Sub Clause 9.1.   |
|  | 9.4  | The Procuring Entity shall forward copies of its response to all those who have purchased the Tender Document, including a description of the enquiry but without identifying its source.  |
|  | 9.5  | Should the Procuring Entity deem it necessary to amend the Tender Document as a result of a clarification, it will do so following the procedure under ITT Clause 11.  |
| <b>10. Pre-Tender Meeting</b>              | 10.1 | To clarify issues and to answer questions on any matter arising in the Tender Document, the Procuring Entity may, if stated in the <b>TDS</b> , hold a pre-Tender Meeting at the place, date and time as specified in the <b>TDS</b> . All potential Tenderers are encouraged and invited to attend the meeting, if it is held.  |
|  | 10.2 | Tenderers are requested to submit any questions in writing so as to reach the Procuring Entity not later than one day prior to the date of the meeting.  |
|  | 10.3 | Minutes of the pre-Tender meeting, including the text of the questions raised and the responses given, together with any responses prepared after the meeting, will be transmitted within five (5) working days after holding the meeting to all   |

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|  |      | those who purchased the Tender document and to even those who did not attend the meeting. Any revision to the Tender Document listed in ITT Sub Clause 8.1 that may become necessary as a result of the pre-Tender meeting will be made by the Procuring Entity exclusively through the issue of an Addendum pursuant to ITT Sub Clause 11 and not through the minutes of the pre-Tender meeting.  |
|  | 10.4 | Non-attendance at the Pre-Tender meeting will not be a cause for disqualification of a Tenderer.   |
| <b>11. Addendum to Tender Document</b> | 11.1 | At any time prior to the deadline for submission of Tenders, the Procuring Entity, on its own initiative or in response to an inquiry in writing from a Tenderer, having purchased the Tender Document, or as a result of a pre-Tender meeting may revise the Tender Document by issuing an Addendum.  |
|  | 11.2 | The Addendum issued under ITT Sub Clause 11.1 shall become an integral part of the Tender Document and shall have a date and an issue number and must be circulated by mail or e-mail, to Tenderers who have purchased the Tender Documents, within five (5) working days of issuance of such Addendum, to enable Tenderers to take appropriate action   |
|  | 11.3 | The Procuring Entity shall also ensure posting of the relevant addenda with the reference number and date on their websites including notice boards, where the Procuring Entity had originally posted the IFTs.  |
|  | 11.4 | The Tenderer shall acknowledge receipt of an addendum.   |
|  | 11.5 | Tenderers who have purchased the Tender Documents but have not received any addendum issued under ITT Sub-clause 11.1 shall inform the Purchaser of the fact by fax, mail or e-mail before <b>two-third</b> of the time allowed for the submission of Tenders has elapsed.   |
|  | 11.6 | To give a prospective Tenderer reasonable time in which to take an addendum into account in preparing its Tender, the Procuring Entity may, at its discretion, extend the deadline for the submission of Tenders, pursuant to <b>ITT Sub Clause 41.2.</b>  |
|  | 11.7 | If an addendum is issued when time remaining is less than <b>one-third</b> of the time allowed for the preparation of Tenders, the Procuring Entity at its discretion shall extend the deadline by an appropriate number of days for the submission of Tenders, depending upon the nature of the Procurement requirement and the addendum. In any case, the minimum time for such extension shall not be less than three (3) working days. |

### C. Qualification Criteria

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| <b>12. General Criteria</b> | 12.1 | Tenderers shall possess the necessary professional and technical qualifications and competence, financial resources, equipment and other physical facilities, managerial capability, specific experience, reputation and the personnel, to perform the contract, which entails setting pass/fail criteria, which if not met by the Tenderers, will result in consideration of its Tender |
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|                                |      | as non-responsive.   |
|                                | 12.2 | In addition to meeting the eligibility criteria, as stated in ITT Clause 5, Tenderers must satisfy the other criteria stated in ITT Clauses 13 to 18 inclusive.  |
|                                | 12.3 | To qualify for multiple number of contracts/lots in a package made up of this and other individual contracts/lots for which Tenders are invited in the Invitation for Tenders, the Tenderers shall demonstrate having resources and experience sufficient to meet the aggregate of the qualifying criteria for the individual contracts. The requirement of general experience as stated under ITT Sub Clause 13.1(a) and specific experience, unless otherwise of different nature, as stated under ITT Sub Clause 13.1(b) shall not be separately applicable for each individual lot.  |
| <b>13. Experience Criteria</b> | 13.1 | Tenderers shall have the following minimum level of supply experience to qualify for the supplying of Goods under the Contract: <ul style="list-style-type: none"> <li>(a) a minimum number of years of general experience in the role of Contractor or Subcontractor or Management Contractor as specified in the <b>TDS</b>; and</li> <li>(b) specific experience as a Contractor or Subcontractor or Management Contractor that are similar to the proposed plant and services in at least a number of contract(s) and, each with a minimum value, over the period, as specified in <b>TDS</b>.</li> </ul>  |
| <b>14. Financial Criteria</b>  | 14.1 | Tenderers shall have the following minimum level of financial capacity to qualify for the supply, execution and performance of plant and services under the Contract: <ul style="list-style-type: none"> <li>(a) satisfactory resolution of all claims under litigation cases and shall not have serious negative impact on the financial capacity of the Tenderers. All pending litigation shall be treated as resolved against the Tenderers;</li> <li>(b) availability of minimum financial resources in any form or combination of forms of liquid assets or credit line(s) or working capital, net of other contractual commitments of the amount as specified in the <b>TDS</b>; and</li> <li>(c) the average annual turnover as specified in the <b>TDS</b> calculated as total certified payments received for contracts in progress or completed, during the period specified in the <b>TDS</b>.</li> </ul> |
| <b>15. Personnel Capacity</b>  | 15.1 | The Tenderer shall have the following minimum level of personnel capacity to qualify for the performance of the plant and services under the Contract.   |

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|                               |      | A Project Manager, Engineers, and other key staff with qualifications and experience as specified in the <b>TDS</b> ;   |
| <b>16. Equipment Capacity</b> | 16.1 | The Tenderer shall own suitable equipment and other physical facilities or have proven access through contractual arrangement to hire or lease such equipment or facilities for the desired period, where necessary or have assured access through lease, hire, or other such method, of the essential equipment, in full working order, as specified in the <b>TDS</b> .   |
| <b>17. Joint Venture (JV)</b> | 17.1 | Tenderers may participate in the procurement proceedings forming a Joint Venture(JV) by an agreement, without alterations, in the format as specified in the <b>Format PG5A-2b</b> , executed case by case on a non-judicial stamp of value as specified in the <b>TDS</b> or alternately with the intent to enter into such an agreement supported by a Letter of Intent along with the proposed agreement duly signed by all legally authorised partners of the intended JV and authenticated by a Notary Public, with the declaration that the partners will execute the JV agreement in the event the Tenderer is successful. |
|                               | 17.2 | The figures for each of the partners of a JV shall be added together to determine the Tenderer's compliance with the minimum qualifying criteria; however, for a JV under ITT Sub Clause 17.1, with number of partners as specified in the <b>TDS</b> to qualify, Lead partner and other partners must meet the criteria as specified in the <b>TDS</b> . Failure to comply with these requirements will result in non-responsiveness of the JV Tender.   |
|                               | 17.3 | Each partner of the JV shall be jointly and severally liable for the execution of the Contract, all liabilities and ethical and legal obligations in accordance with the Contract terms.  |
|                               | 17.4 | JV shall nominate the <b>Lead Partner</b> as Representative or Partner-in-charge being entrusted with the Contract administration and management at Site who shall have the authority to conduct all business for and on behalf of any and all the partners of the JV during the Tendering process and, in the event the JV is awarded the Contract, during contract execution including the receipt of payments for and on behalf of the JV.   |
|                               | 17.5 | The business share of the Lead Partner shall be the highest among all the partners. Other partner(s) shall have at least 25% of business share each.  |
| <b>18. Subcontractor (s)</b>  | 18.1 | Tenderers may intend to subcontract an activity or portion of the Plant and Services that will be subcontracted, if any, including the entity (ies) to whom each portion will be subcontracted to, subject to maximum allowable limit for subcontracting of Plant and Services specified in the <b>TDS</b> , in which case such item(s) and the proposed Subcontractor shall be clearly identified in the <b>Form PG5A-2c</b> .   |
|                               | 18.2 | The Procuring Entity may require Tenderers to provide more information about their subcontracting arrangements. If any Subcontractor is found ineligible or unsuitable to carry out the subcontracted tasks, the Procuring Entity may request the   |

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|  |      | Tenderers to propose an acceptable substitute.  |
|  | 18.3 | A Subcontractor may participate in more than one Tender, but only in that capacity.   |
|  | 18.4 | The Procuring Entity may also select in advance Nominated Subcontractor(s) to execute certain specific components of the Works and if so, those will be specified in the TDS.   |
|  | 18.5 | If a contractor wishes to subcontract an activity or part of the works according to the provision of ITT Clause 18.1 after entering into the contract, it can only be done after approval of Head of the Procuring Entity (HOPE) or an officer authorized by him or her (AO). |
|  | 18.6 | Any unauthorised subcontracting after entering into the contract shall be considered as fundamental breach of contract.   |

### D. Tender Preparation

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| <b>19. Only one Tender</b>                      | 19.1 | If a Tender for Plants and Services is invited for a number of lots on a "lot-by-lot" basis, each such lot shall constitute a Tender. Tenderers shall submit only one (1) Tender for each lot, either individually or as a JVCA. Tenderer who submits or participates in more than one (1) Tender in one (1) lot of the package will cause all the Tenders of that particular Tenderer to be rejected.   |
| <b>20. Cost of Tendering</b>                    | 20.1 | Tenderers shall bear all costs associated with the preparation and submission of its Tender, and the Procuring Entity shall not be responsible or liable for those costs, regardless of the conduct or outcome of the Tendering process.   |
| <b>21. Issuance and Sale of Tender Document</b> | 21.1 | The Procuring Entity shall make Tender Documents available immediately to the potential Tenderers, requesting and willing to purchase at the corresponding price by the date the advertisement has been published in the newspaper.  |
|   | 21.2 | Full contact details with mailing address, telephone and facsimile numbers and electronic mail address, as applicable, of those to whom Tender Documents have been issued shall be recorded with a reference number by the Procuring Entity.   |
|   | 21.3 | There shall not be any pre-conditions whatsoever, for sale of Tender Documents and the sale of such Document shall be permitted up to the day prior to the day of deadline for the submission of Tender.   |
| <b>22. Language of Tender</b>                   | 22.1 | Tenders shall be written in the English language. Correspondences and documents relating to the Tender may be written in English or <i>Bangla</i> . Supporting documents and printed literature furnished by the Tenderers that are part of the Tender may be in another language, provided they are accompanied by an accurate translation of the relevant passages in the English or <i>Bangla</i> language, in which case, for purposes of interpretation of the Tender, such translation shall govern. |
|   | 22.2 | Tenderers shall bear all costs of translation to the governing language and  |

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|                               |      | all risks of the accuracy of such translation.   |
| <b>23. Contents of Tender</b> | 23.1 | The Tender prepared by the Tenderers shall comprise Two Envelope submitted simultaneously, one called the <b>Technical Offer (Envelope -01)</b> containing the documents listed in ITT Sub Clause 23.2 and other called the <b>Financial Offer</b> containing the documents listed in 23.3, <b>both envelopes enclosed together in an outer Single envelope.</b>   |
|                               | 23.2 | <p>The Technical Offer (Envelope-01) prepared by the Tenderers will comprise the following:</p> <ul style="list-style-type: none"> <li>(a) the Tender Submission Letters (<b>Form PG5A-1a</b>), as stated under <b>ITT Sub Clause 24.1</b>;</li> <li>(b) the Tenderer Information as stated under ITT Clauses 5, 28 and 31 (<b>Form PG5A-2a</b>);</li> <li>(c) the Tender Security as stated under ITT Clauses 34, 35 and 36.</li> <li>(d) the alternatives, if permissible, as stated under ITT Clause 25;</li> <li>(e) the written confirmation authorizing the signatory of the Tender including National ID to commit the Tenderer if applicable, as stated under <b>ITT Sub Clause 39.4</b>;</li> <li>(f) the Valid Trade license;</li> <li>(g) The Tenderer shall submit with its Tender the following documents as a proof of fulfilling taxation obligations in accordance with <b>ITT Sub Clause 5.5</b>; <ul style="list-style-type: none"> <li>i. TIN certificate;</li> <li>ii. Acknowledgement slip issued by the competent income tax authority as a proof of submission of income tax return for the Assessment Year as mentioned in the <b>TDS</b>; and</li> <li>iii. Value Added Tax registration certificate/ Business Identification Number.</li> </ul> </li> <li>(h) the Technical Proposal describing work plan &amp; method, personnel, equipment and schedules as stated under ITT Clause 30;</li> <li>(i) documentary evidence as stated under ITT Clause 28 and 31 establishing the Tenderer's eligibility and the minimum qualifications of the Tenderers required to be met for due performance of the Works under the Contract;</li> <li>(j) An affidavit confirming the legal capacity stating that there are no existing orders of any judicial court that prevents either the Tenderer or employees of a Tenderer entering into or signing a Contract with the Procuring Entity as stated under ITT clause 5;</li> <li>(k) An affidavit confirming that the Tenderer is not insolvent, in receivership or not bankrupt or not in the process of bankruptcy, not temporarily barred from undertaking their business for financial reasons and shall not be the subject of legal proceedings for any of the foregoing as stated under ITT Clause 5;</li> <li>(l) Documentary evidence demonstrating that they are enrolled in</li> </ul> |

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|  |      | <p>the relevant professional or trade organizations registered in Bangladesh or in case of foreign tenderer in their country of origin or a certificate concerning their competency issued by a professional institution in accordance with the law of the country of their origin, as stated under ITT Clause 5;</p> <p>(m) The country of origin declarations, to establish the eligibility of the Plant and Services as stated under ITT Clause 6, in the Price Schedule for Plant and Services (<b>Form PG5A-3</b>) as, applicable, furnished in Section 5: Tender and Contract Forms;</p> <p>(n) Documentary evidence as stated under ITT Clauses 29, that the Goods and Related Services conform to the Tender Documents;</p> <p>(o) Documentary evidence as stated under ITT Clause 31 that the Tenderer's qualifications conform to the Tender Documents;</p> <p>(p) document establishing legal and financial autonomy and compliance with commercial law, as stated under ITT Sub Clause 5.10 in case of government owned entity;</p> <p>(q) In addition to the requirements stated under ITT Sub Clause 18.1, Tenders submitted by a JVCA or proposing a Subcontractor shall include.</p> <ol style="list-style-type: none"> <li>i. a Joint Venture Agreement entered into by all partners, executed on a non-judicial stamp of value or equivalent as stated under ITT Sub Clause 17.1; or</li> <li>ii. a Letter of Intent along with the proposed agreement duly signed by all partners of the intended JV with the declaration that it will execute the Joint Venture agreement in the event the Tenderer is successful;</li> <li>iii. the JV Partner Information (<b>Form PG5A-2b</b>);</li> <li>iv. the Subcontractor Information (<b>Form PG5A-2c</b>).</li> </ol> <p>(r) the completed Specifications Submission and Compliance Sheet (<b>Form PG5A-5</b>) as stated under ITT clause 29.1;</p> <p>(s) Any other document as specified in the TDS.</p> |
|  | 23.3 | <p>The Financial Offer (<b>Financial Envelope-02</b>) prepared by the Tenderers will comprise the following:</p> <ol style="list-style-type: none"> <li>(a) the Financial Offer Submission Letter (<b>Form PG5A-1b</b>), as stated under <b>ITT Sub Clause 23.3</b>;</li> <li>(b) the completed Price Schedule for Plant and Services for each lot in accordance with <b>ITT Clauses 24, 26 and 27</b>;</li> <li>(c) the written confirmation authorizing the signatory of the Tender to commit the Tenderer, as stated under <b>ITT Sub Clause 39.4</b>;</li> <li>(d) any other document as specified in the TDS.</li> </ol>  |
| <b>24. Tender Submission Letter and Price Schedule</b> | 24.1 | Tenderers shall submit the Technical Offer Submission Letter ( <b>Form PG5A-1a</b> ), which shall be completed without any alterations to its format, filling in all blank spaces with the information requested, failing which the Tender may be rejected as being incomplete.  |
|  | 24.2 | Tenderers shall submit the Financial Offer submission letter ( <b>Form PG5A-1b</b> ) along with priced Schedule using the form(s) furnished in <b>Section 5: Form PG5A-3 (Price Schedule)</b>  |
|  | 24.3 | If in preparing its Tender, the Tenderer has made errors in the unit rate or   |

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|  |      | the total price, and wishes to correct such errors prior to submission of its Tender, it may do so, but shall ensure that each correction is initialled by the authorised person of the Tenderer.   |
| <b>25. Alternatives</b>                                  | 25.1 | Unless otherwise specified in the <b>TDS</b> , Technical alternatives shall not be considered.  |
|  | 25.2 | When specified in <b>ITT clause 25.1</b> , Tenderers are permitted to submit alternative technical solutions for specified parts of the Works, and such parts will be identified in the <b>TDS</b> .  |
|  | 25.3 | Only the technical alternatives, if any, of the lowest evaluated Tenderer conforming to the basic technical requirements will be considered by the Procuring Entity.  |
| <b>26. Tender Prices, Discounts and Price Adjustment</b> | 26.1 | The prices and discounts quoted by the Tenderers in the Tender Submission Letter ( <b>Form PG5A-1a and PG5A-1b</b> ) and Price Schedule ( <b>Form PG5A-3</b> ) shall conform to the requirements specified below.   |
|  | 26.2 | Tenderers shall fill in unit rates for all items of the Goods both in figures and in words as described in the Price Schedule, excluding any discount offered.  |
|  | 26.3 | Unless otherwise specified in the <b>TDS</b> , tenderers shall quote for the entire Plant and Installation Services on a “single responsibility” basis such that the total tender price covers all the Contractor’s obligations mentioned in or to be reasonably inferred from the tender document in respect of the design, manufacture, including procurement and subcontracting (if any), delivery, construction, installation and completion of the plant. This includes all requirements under the Contractor’s responsibilities for testing, pre-commissioning and commissioning of the plant and, where so required by the tender document, the acquisition of all permits, approvals and licenses, etc.; the operation, maintenance and training services and such other items and services as may be specified in the Tender Document, all in accordance with the requirements of the General Conditions of Contract. Items against which no price is entered by the Tenderer will not be paid for by the Purchaser when executed and shall be deemed to be covered by the prices for other items. |
|  | 26.4 | Tenderers are required to quote the price for the commercial, contractual and technical obligations outlined in the tender document.  |
|  | 26.5 | Tenderers shall give a breakdown of the prices in the manner and detail called for in the Price Schedules included in Section 5, Tender and Contract Forms.   |
|  | 26.6 | Depending on the scope of the Contract, the Price Schedules may comprise up to the seven (7) schedules listed below. Separate numbered Schedules included in Section 5, Tender Forms, from those numbered 1-4 below, shall be used for each of the elements of the Plant and Installation Services. The total amount from each Schedule corresponding to an element of the Plant and Installation Services shall be summarized in the schedule titled Grand Summary, (Schedule 6), giving the total tender price(s) to be entered in the Letter of Tender.<br><br>Schedule No. 1 Plant (including Mandatory Spare Parts)  |

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|      |  | <p>Supplied from Abroad</p> <p>Schedule No. 2 Plant (including Mandatory Spare Parts) Supplied from within the Purchaser's Country</p> <p>Schedule No. 3 Design Services</p> <p>Schedule No. 4 Civil works part</p> <p>Schedule No. 5 Installation and other Services</p> <p>Schedule No. 6 Grand Summary (Schedule Nos. 1 to 4)</p> <p>Schedule No. 7 Recommended Spare Parts</p> <p>Tenderers shall note that the plant and equipment included in Schedule Nos. 1 and 2 above <b>exclude</b> materials used for civil, building and other construction works. All such materials shall be included and priced under Schedule No. 4, Installation Services.</p>   |
| 26.7 |  | <p>In the Schedules, tenderers shall give the required details and a breakdown of their prices as follows:</p> <p>a) Plant to be supplied from abroad (Schedule No. 1):<br/>The price of the plant shall be quoted on CIP-named place of destination/CIF basis as <b>specified in the TDS</b> and as applicable.</p> <p>(b) Plant manufactured within the Purchaser's country (Schedule No. 2):</p> <p>i) The price of the plant shall be quoted on an EXW INCOTERM basis (such as "ex-works," "ex-factory," "ex-warehouse" or "off-the-shelf," as applicable),</p> <p>(ii) Sales tax and all other taxes payable in the Procuring Entity's country on the plant if the contract is awarded to the Tenderer, and</p> <p>(iii) The total price for the item.</p> <p>(c) Design Services (Schedule No. 3).</p> <p>(d) Installation Services shall be quoted separately (Schedule No. 4) and shall include rates or prices for local transportation to named place of final destination as <b>specified in the TDS</b>, insurance and other services incidental to delivery of the plant, all labor, contractor's equipment, temporary works, materials, consumables and all matters and things of whatsoever nature, including operations and maintenance services, the provision of operations and maintenance manuals, training, etc., where identified in the Tender Document, as necessary for the proper execution of the installation and other services, including all taxes, duties, levies and charges payable in the Procuring Entity's country as of twenty-eight (28) days prior to the deadline for submission of tenders.</p> <p>(e) Recommended spare parts shall be quoted separately (Schedule 6) as specified in either subparagraph (a) or (b) above in accordance with the origin of the spare parts</p> |

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| 26.8  | The current edition of INCOTERMS, published by the International Chamber of Commerce shall govern.   |
| 26.9  | The prices shall be either fixed or adjustable as specified in the <b>TDS</b> .  |
| 26.10 | In the case of <b>Fixed Price</b> , prices quoted by the Tenderer shall be fixed during the Tenderer's performance of the contract and not subject to variation on any account. A tender submitted with an adjustable price quotation will be treated as non-responsive and rejected.  |
| 26.11 | In the case of <b>Adjustable Price</b> , prices quoted by the Tenderer shall be subject to adjustment during performance of the contract to reflect changes in the cost elements such as labor, material, transport and contractor's equipment in accordance with the procedures specified in the corresponding Appendix to the Contract Agreement. A tender submitted with a fixed price quotation will not be rejected, but the price adjustment will be treated as zero. Tenderers are required to indicate the source of labor and material indices in the corresponding Form in Section 5, Tender and Contract Forms. |
| 26.12 | If so, indicated in ITT 19.1, tenders are to be invited for individual lots or for any combination of lots (packages). Tenderers wishing to offer any price reduction (discount) for the award of more than one lot shall specify in their Tender Submission Letter the price reductions applicable to each package, or alternatively, to individual Contracts within the package, and the manner in which the price reductions will apply.  |
| 26.13 | Tenderers wishing to offer any unconditional discount shall specify in their Letter of Tender the offered discounts and the manner in which price discounts will apply.  |
| 26.14 | All items or lots in Section 6: <b>Schedule of Requirements</b> must be listed and priced separately on the Price Schedule following the Form <b>PG5A-3</b> .  |
| 26.15 | The price to be quoted in Tender Submission Letter ( <b>Form PG5A-1a and PG5A-1b</b> ) shall be the total price of the Tender, excluding any discounts offered.  |
| 26.16 | Tenderers shall quote any unconditional discounts and the methodology for application of that discount in the Tender Submission Letter as stated under ITT Sub Clause 24.1.  |
| 26.17 | Tenderers wishing to offer any unconditional discount for the award of more than one lot shall specify the discount applicable to each lot, or alternatively, to any combination of lots within the package in their Tender. Discounts will be submitted as stated under ITT Sub Clause 26.12, provided the Tenders for all lots are submitted and opened together.  |
| 26.18 | All applicable taxes, custom duties, VAT and other levies payable by the Contractor under the Contract, or for any other causes, as of the date twenty-eight (28) days prior to the deadline for submission of Tenders, shall be included in the unit rates and the total Tender price submitted by the Tenderers.   |
| 26.19 | If so indicated under ITT Sub Clause 26.9, Tenders are being invited with a  |

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|  |       | provision for price adjustments. The unit rates or prices quoted by the Tenderer are subject to adjustment during the performance of the Contract in accordance with the provisions of the relevant GCC Clause and, in such case the Procuring Entity shall provide the indexes and weightings or coefficients in <b>Appendix to the Tender</b> for the price adjustment formulae specified in the <b>PCC</b> .   |
|  | 26.20 | The Procuring Entity may require the Tenderer to justify its proposed indexes, if any of those as stated under ITT Sub Clause 26.11, are instructed to be quoted by the Tenderer in <b>Appendix to the Tender</b> .   |
|  | 26.21 | The price adjustment stated under ITT Sub Clause 26.9 and 26.11 shall be dealt with in accordance with the provisions in Section 12 and 22 of the Public Procurement Act, 2006 and Rule 4 and 51 of the Public Procurement Rules, 2025.   |
| <b>27. Tender Currency</b>   | 27.1  | For expenditures that will be incurred in Bangladesh, the Tenderer shall quote the prices in Bangladeshi Taka (BDT).  |
|  | 27.2  | Suppliers offering Goods manufactured or assembled in Bangladesh, are permitted to submit their Tender in a combination of local and foreign currencies.  |
|  | 27.3  | In case of National Tender, all quoted price shall be in local currency.  |
|  | 27.4  | In case of international competitive tender, for expenditures that will be incurred outside Bangladesh, the Tenderer may quote the prices as specified in <b>TDS</b> .  |
| <b>28. Documents Establishing Eligibility of the Tenderer</b>                          | 28.1  | Tenderers, if applying as a sole Tenderer, shall submit documentary evidence to establish its eligibility as stated under ITT Clause 5 and, in particular, it shall: <ul style="list-style-type: none"> <li>(a) complete the eligibility declarations in the Tender Submission Letter (<b>Form PG5A-1a and PG5A-1b</b>);</li> <li>(b) complete the Tenderer Information (<b>Form PG5A-2a</b>);</li> <li>(c) complete Subcontractor Information (<b>Form PG5A-2c</b>), if it intends to engage any Subcontractor(s).</li> </ul>  |
|  | 28.2  | Tenderers, if applying as a partner of an existing or intended JV shall submit documentary evidence to establish its eligibility as stated under ITT Clause 5 and, in particular, in addition to as stated under ITT Sub Clause 28.1, it shall: <ul style="list-style-type: none"> <li>(a) provide for each JV partner, completed JV Partner Information (<b>Form PG5A-2b</b>);</li> <li>(b) provide the JV agreement as per <b>Format PG5A-2b</b> or Letter of Intent along with the proposed agreement of the intended JV as stated under ITT Sub Clause 17.1.</li> </ul> |
| <b>29. Documents Establishing the Eligibility and Conformity of Plant and Services</b> | 29.1  | Tenderers shall complete the country of origin declarations in the Price Schedule Forms and, submit documentary evidence to establish the origin of all Goods to be supplied under the Contract as stated under ITT Clause 6.   |
|  | 29.2  | To establish the conformity of the plant and services to the Tender Documents, the Tenderer shall furnish, as part of its Tender, the documentary evidence (which may be in the form of literature, specifications and brochures, drawings or data) that the Goods and Related Services conform to the technical specifications and   |

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|  |      | standards specified in <b>Section 7, Technical Specifications.</b>   |
|  | 29.3 | <p>Documentary evidence of conformity of the Goods to the Tender Documents may be in the form of literature, drawings, and data, and shall consist of:</p> <ul style="list-style-type: none"> <li>(a) a detailed description of the essential technical and performance characteristics of the plant and services, including the functional guarantees of the proposed plant and services, in response to the Specification;</li> <li>(b) a list giving full particulars, including available sources, of all spare parts and special tools necessary for the proper and continuing functioning of the plant for the period named in the <b>TDS</b>, following completion of plant and services in accordance with provisions of contract; and</li> <li>(c) a commentary on the Procuring Entity's Technical Specifications demonstrating substantial responsiveness of the plant and services to those specifications. Tenderers shall note that standards for workmanship, materials and equipment designated by the Procuring Entity in the Tender Document are intended to be descriptive (establishing standards of quality and performance) only and not restrictive. The Tenderer may substitute alternative standards, brand names and/or catalog numbers in its tender, provided that it demonstrates to the Procuring Entity's satisfaction that the substitutions are substantially equivalent or superior to the standards designated in the Specification.</li> </ul> |
| <b>30. Documents Establishing Technical Proposal</b>           | 30.1 | Tenderers shall furnish a Technical Proposal including a statement of work methods, equipment, personnel, schedule, risks involved and measures there against and any other information as stipulated in TDS, in sufficient detail to demonstrate the adequacy of the Tenderer's proposal to meet the work requirements and the completion time.   |
| <b>31. Documents Establishing the Tenderer's Qualification</b> | 31.1 | <p>Tenderers shall complete and submit the Tenderer Information (<b>Form PG5A-2a</b>) and shall include documentary evidence, as applicable to satisfy the following:</p> <ul style="list-style-type: none"> <li>a) general experience in the supply of Goods as stated under ITT Sub Clause 13.1(a), substantiated by the year of Tenderer's registration/constitution/licensing in its country of origin;</li> <li>b) specific experience of satisfactory completion of supply of Goods under public or private sector of similar nature and size as stated under ITT Sub Clause 13.1(b), substantiated by Completion Certificate (s) issued or duly certified, by the relevant Procuring Entity(s);</li> <li>c) information regarding claims under litigation, current or during the last years as specified in the <b>TDS</b>, in which the Tenderer is involved, the parties concerned, and value of claim as stated under ITT Sub Clause 14.1(a), substantiated</li> </ul>   |

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|   |      | <p>by statement in its letter-head pad;</p> <p>d) adequacy of minimum liquid asset substantiated by bank statement having previous date's closing balance with three (3) months transaction details; or (ii) updated balance statement on previously approved credit line; or (iii) unconditional specific credit commitment letter issued in the format as specified in <b>Form PG5A-8</b> without alteration from any scheduled bank of Bangladesh, and issued not earlier than twenty-eight (28) days prior to the day of the initial (if applicable) deadline for submission of Tenders for this Contract as stated under ITT Sub Clause 14.1(b) or (iv) working capital substantiated by audited financial statements mentioned in (h) below;</p> <p>e) if required in the <b>TDS</b>, a Tenderer that does not manufacture or produce the Goods shall submit the <b>Manufacturer's Authorization Letter (Form PG5A-6)</b>;</p> <p>f) authority to seek references from the Tenderer's Bankers or any other sources in its letter-head pad;</p> <p>g) reports on the financial standing of the Tenderers, such as profit and loss statements and audited balance sheet for the previous years as specified in the <b>TDS</b>, substantiated by Audit Reports;</p> <p>h) information regarding technical and administrative personnel along with their qualification and experience proposed for the Contract as stated under ITT Clause 15; and</p> <p>i) major items of construction equipment proposed to carry out the Contract as stated under ITT Clause 16, substantiated by statement(s) of the entity(s) participating in the Tender in its letter-head pad declaring source of its availability and documents related to ownership or hiring or leasing.</p> |
| <b>32. Validity Period of Tender</b>                        | 32.1 | Tender validities shall be determined on the basis of the complexity of the Tender and the time needed for its examination, evaluation, approval of the Tender and issuance of the Notification of Award (NOA).  |
|   | 32.2 | Tenders shall remain valid for the period as specified in the <b>TDS</b> after the date of Tender submission deadline. A Tender valid for a period shorter than that specified will be considered, non- responsive.  |
| <b>33. Extension of Tender Validity and Tender Security</b> | 33.1 | In exceptional circumstances, prior to the expiration of the Tender Validity period, the Procuring Entity may solicit all the Tenderers' consent to an extension of the period of validity of their Tenders, subject to a maximum of two times; provided that those Tenderers have passed the preliminary examination as stated under ITT Sub Clauses 46.2.  |
|   | 33.2 | The request for extension of Tender Validity period shall state the new date of the validity of the Tender.  |

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|   | 33.3 | The request and the responses shall be made in writing. Validity of the Tender Security provided under ITT Clause 34 shall also be suitably extended for twenty-eight (28) days beyond the new date for the expiry of the Tender Validity. If a Tenderer does not respond or refuses the request it shall not forfeit its Tender Security, but its Tender shall no longer be considered in the evaluation proceedings. A Tenderer agreeing to the request will not be required or permitted to modify its Tender.   |
| <b>34. Tender Security</b>                | 34.1 | Tenderers shall furnish as part of its Technical offer ( <b>envelope-1</b> ) Tender, in favour of the Procuring Entity or as otherwise directed on account of the Tenderer, a Tender Security in original form (not copy) and in the amount, as specified in the <b>TDS</b> .   |
|   | 34.2 | If the Tender is a Joint Venture, the Tenderer shall furnish as part of its Tender, in favour of the Procuring Entity or as otherwise directed on account of the title of the existing or intended JV or any of the partners of that JV or in the names of all future partners as named in the Letter of Intent of the JV, a Tender Security in original form and in the amount as stated under ITT Sub Clause 34.1.  |
|   | 34.3 | In case of substitution of the Tender as stated under ITT Clause 43.3 a new Tender Security shall be required in the substituted Tender.  |
| <b>35. Form of Tender Security</b>        | 35.1 | The Tender Security shall: <ul style="list-style-type: none"> <li>(a) at the Tenderer's option, be either; <ul style="list-style-type: none"> <li>i. in the form of a Bank Draft or Pay Order, or</li> <li>ii. in the form of an irrevocable unconditional Bank Guarantee issued by any scheduled Bank of Bangladesh, in the format (<b>Form PG5A-7</b>) without any alteration, furnished in <b>Section 5: Tender and Contract Forms</b>;</li> </ul> </li> <li>(b) In case of ICT, in the form of an irrevocable bank guarantee issued by an internationally reputable bank and shall require to be endorsed by its any correspondent bank located in Bangladesh, to make it enforceable, in the format (<b>Form PG5A-7</b>) furnished in Section 5: Tender and Contract Forms;</li> <li>(c) be payable promptly upon written demand by the Procuring Entity in the case of the conditions as stated under ITT Sub Clause 38.1 being invoked; and</li> <li>(d) remain valid for at least twenty-eight (28) days beyond the expiry date of the Tender Validity in order to make a claim in due course against a Tenderer in the circumstances as stated under ITT Sub Clause 38.1.</li> </ul> |
| <b>36 Authenticity of Tender Security</b> | 36.1 | The authenticity of the Tender Security submitted by a Tenderer may be examined and verified by the Procuring Entity at its discretion in writing from the Bank issuing the security, prior to finalization of the Evaluation Report.   |
|   | 36.2 | If a Tender Security is found to be not-authentic, the Procuring Entity may proceed to take measures against that Tenderer as stated under ITT Sub Clause 4.4.  |
|   | 36.3 | A Tender not accompanied by a valid Tender Security will be considered non-responsive.  |

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| <b>37. Return of Tender Security</b>     | 37.1 | No Tender Security shall be returned to the Tenderers before Approval of Evaluation Report.  |
|  | 37.2 | Non-responsive Tenderer's Tender Security will be returned after approval of Evaluation Report but within twenty-eight (28) days of the expiry of the Tender Validity period as stated under ITT Sub Clauses 32.1. The Tender Security of the responsive Tenderers except the 1 <sup>st</sup> , 2 <sup>nd</sup> , and 3 <sup>rd</sup> lowest responsive Tenderers may be returned, in the same manner, upon written request from them to the Procuring Entity.   |
|  | 37.3 | The Tender Security of the 1 <sup>st</sup> , 2 <sup>nd</sup> , and 3 <sup>rd</sup> lowest responsive Tenderers (as the case may be) will be returned upon the successful Tenderer's furnishing of the performance security and signing of the Contract Agreement, if not otherwise subject to ITT Clause 38.1.   |
| <b>38. Forfeiture of Tender Security</b> | 38.1 | The Tender Security may be forfeited, if a Tenderer: <ul style="list-style-type: none"> <li>(a) withdraws its Tender after opening of Tenders but within the validity of the Tender as stated under ITT Clause 32 and 33; or</li> <li>(b) does not accept the correction of the Tender price following the correction of the arithmetic errors as stated under ITT Clause 53; or</li> <li>(c) fails to furnish Performance Security or tenderer's submitted Performance Security has been found unauthentic as stated under ITT Sub Clauses 66.1 and 66.2; or</li> <li>(d) refuses or fails to sign the Contract as stated under ITT Sub Clause 71.2.</li> <li>(e) involves in any corrupt, fraudulent, collusive, coercive or obstructive practice of any kind as defined in ITT Clause 4.</li> </ul> |
| <b>39. Format and Signing of Tender</b>  | 39.1 | Tenderers shall prepare one (1) original of the documents comprising the Technical Offer as described in <b>ITT Clause 23.2</b> and clearly mark it " <b>ORIGINAL OF TECHNICAL OFFER</b> " In addition, the Tenderers shall prepare the number of copies of the Technical Offer, as specified in the TDS and clearly mark each of them " <b>COPY OF THE TECHNICAL OFFER.</b> " In the event of any discrepancy between the original and the copies, the <b>ORIGINAL</b> shall prevail.   |
|  | 39.2 | Tenderers shall prepare one (1) original of the documents comprising the Financial Offer as described in <b>ITT Clause 23.3</b> and clearly mark it " <b>ORIGINAL OF FINANCIAL OFFER</b> " In addition, the Tenderers shall prepare the number of copies of the Financial Offer, as specified in the TDS and clearly mark each of them " <b>COPY OF THE FINANCIAL OFFER</b> " In the event of any discrepancy between the original and the copies, the <b>ORIGINAL</b> shall prevail.  |
|  | 39.3 | Alternatives, if permitted as stated under ITT Clause 22, shall be clearly marked "Alternative".   |
|  | 39.4 | The original and each copy of the Offer shall be typed or written  |

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|  |      | in indelible ink and shall be signed by the Person duly authorized to sign on behalf of the Tenderer. This Tender specific authorization shall be attached to the Technical Offer Submission Letter ( <b>Form PG5A-1a</b> ) and Financial Offer Submission Letter ( <b>Form PG5A-1b</b> ). The name and position held by each Person(s) signing the authorization must be typed or printed below the signature. All pages of the original and of each copy of the Tender, except for un-amended printed literature, shall be numbered sequentially and signed by the person signing the Tender. The original and each copy of the Tender shall be typed or written in indelible ink and shall be signed by the Person duly authorized to sign on behalf of the Tenderer. This Tender specific authorization document shall be attached to the Tender Submission Letter ( <b>Form PG5A-1c</b> ). The name and position held by each Person(s) signing the authorization must be typed or printed below the signature. All pages of the original and of each copy of the Tender, except for un-amended printed literature, shall be numbered sequentially and signed by the person signing the Tender. |
|  | 39.5 | Any interlineations, erasures, or overwriting will be valid only if they are signed or initialled by the Person(s) signing the Tender.   |

### E. Tender Submission

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| <b>40. Sealing, Marking and Submission of Tender</b> | 40.1 | Tenderers shall enclose the original of <b>Technical Offer</b> in one (1) envelope and all the copies of the <b>Technical Offer</b> , including the alternatives, if permitted under <b>ITT Clause 25</b> , in another envelope, duly marking the envelopes as <b>“ORIGINAL OF TECHNICAL OFFER” “ALTERNATIVES”</b> (if permitted), <b>“COPY OF TECHNICAL OFFER”,”ALTERNATIVES”</b> (if permitted) These sealed envelopes for the original and copies of the technical Tender shall then be enclosed and sealed in one single envelope and clearly mark it <b>“Envelope-01: TECHNICAL OFFER”</b> . Tenderers shall enclose the original in one (1) envelope and all the copies of the Tender, including the alternatives, if permitted under <b>ITT Clause 25</b> , in another envelope, duly marking the envelopes as <b>“ORIGINAL (O)” “ALTERNATIVE (A)”</b> (if permitted) and <b>“COPY.”</b> These sealed envelopes will then be enclosed and sealed in one (1) single outer envelope. |
|  | 40.2 | The inner and outer envelopes of Technical Offer shall: <ul style="list-style-type: none"> <li>(a) be addressed to the Procuring Entity at the address as stated under <b>ITT Sub Clause 41.1</b>;</li> <li>(b) bear the name of the Tender and the Tender Number as stated under <b>ITT Sub Clause 1.1</b>;</li> <li>(c) bear the name and address of the Tenderer;</li> <li>(d) bear a statement <b>“DO NOT OPEN BEFORE -----”</b> the time and date for Tender opening as stated under <b>ITT Sub Clause 44.1</b>;</li> <li>(e) bear any additional identification marks as specified in the <b>TDS</b>.</li> </ul>  |

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|  | 40.3 | Tenderers shall enclose the original of <b>Financial Offer</b> in one (1) envelope and all the copies of the <b>Financial Offer</b> in another envelope, duly marking the envelopes as “ <b>ORIGINAL OF FINANCIAL OFFER</b> ” & “ <b>COPY OF FINANCIAL OFFER</b> ”. These sealed envelopes for the original and copies of the Financial Tender shall then be enclosed and sealed in one single envelope and clearly mark it “ <b>ENVELOPE-02: FINANCIAL OFFER</b> ”.                       |
|  | 40.4 | The inner and outer envelopes of Financial Offer shall:<br>(a) be addressed to the Procuring Entity at the address as stated under ITT Sub Clause 41.1;<br>(b) bear the name of the Tender and the Tender Number as stated under ITT Sub Clause 1.1;<br>(c) bear the name and address of the Tenderer;<br>(d) bear a statement “ <b>DO NOT OPEN BEFORE THE TECHNICAL OFFER EVALUATION AND APPROVAL</b> ”.<br>(e) bear any additional identification marks as specified in the <b>TDS</b> . |
|  | 40.5 | <b>The Envelope-01</b> as stated in ITT Clause 40.1 and <b>Envelope-02</b> as in ITT Clause 40.3 shall then be enclosed and sealed in one single outer envelope which shall contain the information as stated under ITT Clause 40.2 (a) to (e) & ITT Clause 40.4 (a) to (e).   |
|  | 40.6 | Tenderers are solely and entirely responsible for pre-disclosure of Tender information if the envelope(s) are not properly sealed and marked.  |
|  | 40.7 | Tenders shall be delivered by hand or by mail, including courier services at the address(s) as stated under ITT Sub Clause 41.1.   |

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|  | 40.8 | The Procuring Entity will, on request, provide the Tenderer with acknowledgement of receipt showing the date and time when it's Tender was received.   |
| <b>41. Deadline for Submission of Tender</b> | 41.1 | Tenders shall be delivered to the Procuring Entity at the address specified in the <b>TDS</b> and not later than the date and time specified in the <b>TDS</b> .   |
|  | 41.2 | The Procuring Entity may, at its discretion, extend the deadline for submission of Tender as stated under ITT Sub Clause 41.1, in which case all rights and obligations of the Procuring Entity and Tenderers previously subject to the deadline will thereafter be subject to the new deadline as extended. |
|  | 41.3 | Tenders shall be received at only one place as specified under ITT Sub Clause 41.1.  |

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| <b>42. Late Tender</b> | 42.1 | Any Tender received by the Procuring Entity after the deadline for submission of Tenders as stated under ITT Sub Clause 41.1 shall be declared LATE and returned unopened to the Tenderer. |
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| <b>43. Modification, Substitution or Withdrawal of Tender</b> | 43.1 | Tenderers may modify, substitute or withdraw its Tender after it has been submitted by sending a written notice duly signed by the authorized signatory and properly sealed, and shall include a copy of the authorization; provided that such written notice including the affidavit is received by the Procuring Entity prior to the deadline for submission of Tenders as stated under ITT Clause 41. |
|   | 43.2 | Tenderers shall not be allowed to retrieve its original Tender, but shall be allowed to submit corresponding modification to its original Tender marked as “ <b>MODIFICATION (M)</b> ”.  |
|   | 43.3 | Tenderers shall not be allowed to retrieve its original Tender, but shall be allowed to submit another Tender marked as “ <b>SUBSTITUTION (S)</b> ”.   |
|   | 43.4 | Tenderers shall be allowed to withdraw its Tender by a Letter of Withdrawal marked as “ <b>WITHDRAWAL(W)</b> ”.  |

### F. Tender Opening and Evaluation

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| <b>44. Tender Opening</b> | 44.1 | Only the <b>Technical Offer (Envelope-1)</b> shall be opened immediately after the deadline for submission of Tenders at the primary place as specified in the <b>TDS</b> but not later than <b>ONE HOUR</b> , Tenders shall be opened immediately after the deadline for submission of Tenders at the place as specified in the <b>TDS</b> but not later than <b>ONE HOUR</b> after expiry of the submission deadline.<br><b>Financial offer (Envelope-02)</b> shall not be opened with technical offer (Envelop-1) and shall be kept unopened at the Custody of the Head of the Procuring Entity or his Authorised Officer (AO). |
|                           | 44.2 | Persons not associated with the Tender may not be allowed to attend the public opening of Tenders.   |
|                           | 44.3 | Tenderers’ representatives shall be duly authorised by the Tenderer. Tenderers or their authorised representatives will be allowed to attend and witness the opening of Tenders, and will sign a register evidencing their attendance.   |
|                           | 44.4 | The authenticity of withdrawal or substitution of, or modifications to original Tender, if any made by a Tenderer in specified manner, shall be examined and verified by the Tender Opening Committee (TOC) based on documents submitted as stated under ITT Sub Clause 43.1.  |

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|  | 44.5 | <p>Verify (M), (S), (W), (A), (O) by following step by steps</p> <p>(a) <b>Step 1:</b> envelopes marked “Withdrawal (W)” shall be opened and “Withdrawal” notice read aloud &amp; recorded in the opening sheet. After verify the withdrawal letter is genuine, corresponding tender shall not be opened, but returned unopened to the Tenderer by Procuring Entity (PE) at a late time. No Tender withdrawal shall be permitted unless the corresponding withdrawal notice shall be as stated in 43.4 and in such case the Tender shall be opened and recorded.</p> <p>(b) <b>Step 2:</b> the remaining Tenders will be sorted out and those marked “SUBSTITUTION (S)” or “MODIFICATION (M)” of Tender will be linked with their corresponding Original Tender.</p> <p>(c) <b>Step 3:</b> outer envelopes marked “SUBSTITUTION (S)” shall be opened. The inner envelopes containing the “Substitution of Technical Offer (STO)” and/or “Substitution of Financial Offer (SFO)” shall be exchanged for the corresponding envelopes being substituted, which are to be returned to the Tenderer unopened by the Procuring Entity at a later time immediately after opening of Technical Offers. Only the Substitution of Technical Offer, if any, shall be opened, read out, and recorded. Substitution of Financial Offer will remain unopened in accordance with ITT Sub Clause 45.1. No envelope shall be substituted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out and recorded at Technical Offer opening.</p> <p>(d) <b>Step 4:</b> outer envelopes marked “MODIFICATION (M)” shall be opened. No Technical Offer and/or Financial Offer shall be modified unless the corresponding modification notice contains a valid authorization to request the modification and is read out and recorded at the opening of Technical Offers. Only the Technical Offers, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Financial Offers, both Original as well as Modification, will remain unopened in accordance with ITT Sub Clause 45.1</p> <p>(e) <b>Step 5:</b> if so specified in this Tender Document, the envelopes marked “Alternative of Technical Offer (ATO)” shall be opened and read aloud with the corresponding Technical Offer and recorded.</p> |
|  | 44.6 | <p>Ensuring that only the correct (MTO), (STO), (ATO), (OTO) envelopes are opened, details of each Technical Offer will be dealt with as follows:</p>   |

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|                                  |      | <p>(a) the Chairperson of the TOC will read aloud each Technical Offer and record in the Technical Offer Opening Sheet (TOOS):</p> <ul style="list-style-type: none"> <li>(i) the name and address of the Tenderer;</li> <li>(ii) state if it is a withdrawn, modified, substituted or original Technical Offer;</li> <li>(iii) any alternatives;</li> <li>(iv) record the rejection of the Tender which submitted Technical Offer and Financial Offer together in one envelope.</li> <li>(v) the presence or absence of any requisite Tender Security; and</li> <li>(vi) such other details as the Procuring Entity, at its discretion, may consider appropriate.</li> </ul> <p>(b) Only Technical Offer and alternatives read aloud at the Technical Offer Opening will be considered in evaluation.</p> <p>(a) all pages of the original version of the Technical Offer, except for un-amended printed literature, will be initialled by members of the TOC. <b>Remember, no financial Offer shall be opened with the Technical Offer.</b></p> |
|                                  | 44.7 | Upon completion of Tender opening, all members of the TOC and the Tenderers or Tenderer's duly authorised representatives attending the Tender opening shall sign by name, address, designation, the TOS, copies of which shall be issued to the Head of the Procuring Entity or an officer authorised by him or her and also to the members of the TOC and any authorised Consultants Representatives and, to the Tenderers immediately.   |
|                                  | 44.8 | The omission of a Tenderer's signature on the record shall not invalidate the contents and effect of the record under ITT Sub Clause 44.7.  |
|                                  | 44.9 | No Tender i.e., Technical or Financial Offer will be rejected at the Tender opening stage except the LATE Tenders as stated in the ITT Clause 42.   |
| <b>45. Evaluation of Tenders</b> | 45.1 | Technical Offers shall be examined and evaluated only on the basis of the criteria specified in the Tender Document.  |
|                                  | 45.2 | Tender Evaluation Committee (TEC) shall examine, evaluate and compare Tenders that are responsive to the requirements of Tender Documents in order to identify the successful Tenderer.   |
|                                  | 45.3 | TEC may consider a Tender Offer as responsive in the Evaluation, only if it is submitted in compliance with the mandatory requirements set out in the Tender Document. The evaluation process should begin immediately after Technical  |

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|                                    |      | <p>Offer opening following two steps:</p> <ul style="list-style-type: none"> <li>(a) Preliminary examination</li> <li>(b) Technical examination and responsiveness</li> </ul>  |
| <b>46. Preliminary Examination</b> | 46.1 | TEC shall examine the Tenders to confirm that all documentations as stated under ITT <b>Clause 23</b> have been provided, to determine the completeness of each document submitted.  |
|                                    | 46.2 | <p>TEC shall confirm that the following documents and information have been provided in the Tender. If any of these documents or information is missing, the Tender shall be considered rejected.</p> <ul style="list-style-type: none"> <li>(a) All Forms, as applicable, duly filled-in and signed, as in Tender Forms (Section 5);</li> <li>(b) Priced Schedule;</li> <li>(c) Written confirmation authorizing the signatory of the Tender to commit the Tenderer; and</li> <li>(d) Valid Tender Security.</li> </ul> |

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| <b>47. Technical Responsiveness and Technical Evaluation</b> | 47.1 | Only those Tenders surviving preliminary examination need to be examined in this phase.  |
|  | 47.2 | <p>Secondly, the TEC will examine the adequacy and authenticity of the documentary evidence which may follow the order below:</p> <ul style="list-style-type: none"> <li>(a) verification of the completeness of the country of origin declaration in the Price Schedule for Plant and Services (<b>Form PG5A-3</b>) as furnished in Section 5: Tender and Contract Forms to determine the eligibility of the Goods and Related Services as stated under ITT Sub Clause 23.2(n).</li> <li>(b) verification and examination of the documentary evidence and completed Technical Proposal (<b>Form PG5A-4</b>) as furnished in Section 5: Tender and Contract Forms to establish the conformity of the Goods and Related Services to the Tender Documents as stated under ITT Sub Clause 23.2 (d) and 23.2(o).</li> <li>(c) verification and examination of the documentary evidence that the Tenderer's qualifications conform to the Tender Documents and the Tenderer meets each of the qualification criterion specified in Sub-Section C, Qualification Criteria as stated under ITT Sub Clause 23.2(p).</li> <li>(d) verification and examination of the documentary evidence that Tenderer has met all the requirements in regards under Section 6, Procuring Entity's Requirements, without any material deviation or reservation.</li> <li>(e) verification and examination of the documentary evidence and completed Specification Submission Sheet (<b>Form PG5A-5</b>) to determine the conformity of the Goods and related services.</li> </ul> |
|  | 47.3 | TEC may consider a Tender as responsive in the evaluation, only if comply with the mandatory requirements as stated under Clause 47.2.   |
|  | 47.4 | The TEC's determination of a Tender's responsiveness is to be based on the documentary evidence as requested in Clause 47.2 without recourse to extrinsic evidence.  |
|  | 47.5 | Information contained in a Tender, that was not requested in the Tender Document shall not be considered in evaluation of the Tender.  |

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| 47.6  | <p>A responsive Tender is one that conforms in all respects to the requirements of the Tender Document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:</p> <ul style="list-style-type: none"> <li>(a) affects in any substantial way the scope, quality, or supply of goods specified in the Contract; or</li> <li>(b) limits in any substantial way, or is inconsistent with the Tender Documents, the Procuring Entity's rights or the Tenderer's obligations under the Contract; or</li> <li>(c) if rectified would unfairly affect the competitive position of other Tenderers presenting responsive Tenders.</li> </ul> <p>During the evaluation of Tenders, the following definitions shall apply:</p> <p><b>"Deviation"</b> is a departure from the requirements specified in the Tender Document;</p> <p><b>"Reservation"</b> is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Tender Document; and</p> <p><b>"Omission"</b> is the failure to submit part or all of the information or documentation required in the Tender Document.</p> |
| 47.7  | <p>If a Tender is not responsive to the mandatory requirements set out in the Tender Document, shall not subsequently be made responsive by the Tenderer by correction of the material deviation, reservation, or omission.</p>  |
| 47.8  | <p>There shall be no requirement as to the minimum number of responsive Tenders.</p>   |
| 47.9  | <p>Provided that a Tender is responsive, TEC may request that the Tenderer submit the necessary information or documentation, within a reasonable period of time to rectify nonmaterial nonconformities or omissions in the Tender related to documentation requirements. Such omission shall not be related to any aspect of the rates of the Tender reflected in the Priced Schedule or any mandatory criteria. Failure of the Tenderer to comply with the request may result in the consideration of its Tender as non-responsive.</p>  |
| 47.10 | <p>TEC may regard a Tender as responsive even if it contains:</p> <ul style="list-style-type: none"> <li>(a) minor or insignificant deviations which do not meaningfully alter or depart from the technical specifications, characteristics and commercial terms and, conditions or other mandatory requirements set out in the Tender Document; or</li> <li>(b) errors or oversights, that if corrected, would not alter the key aspects of the Tender.</li> </ul>  |

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| <b>48. Clarification on Tender</b>                   | 48.1 | TEC may ask Tenderers for clarification of their Technical Offers in order to facilitate the examination and evaluation of Technical Offers. The request for clarification by the TEC and the response from the Tenderer shall be in writing, and Technical Offers clarifications which may lead to a change in the substance of the Technical Offers or in any of the key elements of the Technical Offers as stated under ITT Sub Clause 47.2, will neither be sought nor be permitted. |
|  | 48.2 | Any request for clarifications by the TEC shall not be directed towards making an apparently non-responsive Tender responsive and reciprocally the response from the concerned Tenderer shall not be articulated towards any addition, alteration or modification to its Tender.  |
|  | 48.3 | The Tenderer shall be provided a reasonable timeline, but not less than three (3) working days, to respond against a clarification request. If a Tenderer does not provide clarifications of its Technical Offer by the date and time, its Tender shall not be considered in the evaluation.  |
| <b>49. Restrictions on Disclosure of Information</b> | 49.1 | Following the opening of Tenders until issuance of Notification of Award no Tenderer shall, unless requested to provide clarification to its Tender or unless necessary for submission of a complaint, communicate with the concerned Procuring Entity.   |
|  | 49.2 | Tenderers shall not seek to influence in anyway, the examination and evaluation of the Tenders.   |
|  | 49.3 | Any effort by a Tenderer to influence the Procuring Entity in its decision concerning the evaluation of Tenders, Contract awards may result in the non-responsiveness of its Tender as well as further action in accordance with Section 64 (5) of the Public Procurement Act, 2006.  |
|  | 49.4 | All clarification requests shall remind Tenderers of the need for confidentiality and that any breach of confidentiality on the part of the Tenderer may result in their Tender being non-responsive.   |
| <b>50. Approval of Technical Evaluation Report</b>   | 50.1 | TEC shall prepare the Technical Evaluation Report and shall directly submit the Evaluation Report to the Head of the Procuring Entity (HOPE) or Authorized Officer for approval.  |
| <b>51. Financial Offer Opening</b>                   | 51.1 | After getting approval of the Technical Offer Evaluation Report, Financial Offer ( <b>Envelope-02</b> ) of only the Responsive Tenderers who have been determined as qualified to the requirements of the Technical Offer, shall be opened publicly, the date, time and place of Financial Offer Opening shall be communicated to the Responsive Tenderers in writing by issuing a Financial Offer Opening notice not less than <b>seven days</b> before the opening.                     |
|  | 51.2 | Ensuring that only the correct MFO, SFO, OFO envelopes of the Responsive Tenderers shall be opened, in the presence of the Responsive Tenderer's representatives who choose to attend, on the date, time and at the place as notified by the  |

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|  |             | <p>Procuring Entity in accordance with ITT Clause 51.1. Details of each Technical Offer will be dealt with as follows:</p> <ul style="list-style-type: none"> <li>(a) the Chairperson of the Tender Evaluation Committee will read aloud each Financial Offer and record in the Financial Offer Opening Sheet (FOOS): <ul style="list-style-type: none"> <li>(vii) the name and address of the Tenderer;</li> <li>(viii) state if it is a modified, substituted or original Financial Offer;</li> <li>(ix) the Tender Price;</li> <li>(x) the number of initialed corrections;</li> <li>(xi) any discounts; and</li> <li>(xii) any other details as the Procuring Entity, at its discretion, may consider appropriate</li> </ul> </li> <li>(b) only the discounts and alternatives read aloud and recorded at the Financial Offer Opening will be considered in Financial Offer Evaluation. No Tenders shall be rejected at the opening of the Financial Offer.</li> <li>(c) all pages of the original version of the Financial Offer, except for un-amended printed literature, will be initialed by members of the Tender Evaluation Committee.</li> </ul> <p>The Procuring Entity shall, in writing, notify the Non-responsive Tenderers who have not been determined as qualified to the requirements of the Technical Offer and shall return their Financial Offers (<b>Envelope-02</b>) unopened after signing the Contract Award with the evaluated lowest responsive Tenderer.</p> |
| <p><b>52. Clarification on Financial Offer</b></p> | <p>52.1</p> | <p>TEC may ask Tenderers for clarification of their Financial Offers, about the breakdowns of unit rates, in order to facilitate the examination and evaluation of Financial Offers. The request for clarification by the TEC and the response from the Tenderer shall be in writing.</p>  |
|  | <p>52.2</p> | <p>Changes in the Tender price shall not be sought or permitted, except to confirm the correction of arithmetical errors discovered by the TEC in the evaluation of the Tenders, as stated under ITT Sub Clause 55.1.</p>  |
|  | <p>52.3</p> | <p>If a Tenderer does not provide clarifications of its Financial Offer by the date and time, its Tender shall not be considered in the evaluation.</p>  |
|  | <p>52.4</p> | <p>Requests for clarifications on Financial Offers shall be duly signed only by the TEC Chairperson.</p>   |

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| <b>53. Correction of Arithmetical Errors</b> | 53.1 | <p>Provided that the Tender is responsive, the TEC shall correct arithmetical errors on the following basis:</p> <ul style="list-style-type: none"> <li>(a) if there is a discrepancy between the unit price and the line item total price that is obtained by multiplying the unit price and quantity, the unit price will prevail and the line item total price shall be corrected, unless in the opinion of the TEC there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted will govern and the unit price will be corrected; and</li> <li>(b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and</li> <li>(c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.</li> </ul> |
|  | 53.2 | <p>TEC shall correct the arithmetic errors and shall promptly notify the concerned Tenderer(s). If the Tenderer does not accept the correction of arithmetic errors, its Tender shall be rejected.</p>  |
| <b>54. Conversion to Single Currency</b>     | 54.1 | <p>For evaluation and comparison purpose, TEC shall convert all Tender prices expressed in the amounts in various currencies into an amount in Bangladeshi Taka currency, using the <b>selling exchange rates</b> established by the Bangladesh Bank, on the date of <b>Tender opening</b>.</p>   |
| <b>55. Financial Evaluation</b>              | 55.1 | <p>TEC will evaluate each Financial Offer that has been opened duly.</p>  |
|  | 55.2 | <p>To evaluate a Tender, the TEC will consider the following:</p> <ul style="list-style-type: none"> <li>(a) the Tender price for Item(s) or Lot</li> <li>(b) adjustments for correction of arithmetical errors, as stated under ITT Sub Clause 53.1;</li> <li>(c) Adjustment in order to take into consideration the unconditional discounts and methodology for application of the discount offered for being awarded more than one lot, as stated under ITT Sub Clauses 23.10 and 23.11, if any.</li> </ul>  |
|  | 55.3 | <p>If Tenders are invited for a single lot or for a number of lots as stated under ITT Sub-clauses 26.10, TEC shall evaluate only lots that have included at least the percentage of items per lot. The TEC shall evaluate and compare the Tenders taking into account:</p>   |

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|   |      | <ul style="list-style-type: none"> <li>(a) Lowest evaluated tender for each lot ;</li> <li>(b) The price discount/reduction per lot;</li> <li>(c) Least cost combination for the Purchaser, considering discounts and the methodology for its application as stated under ITT Sub-clauses 26.16 and 26.17 offered by the Tenderer in its Tender.</li> </ul>  |
|   | 55.4 | Only those spare parts and tools which are specified as a item in the List of Goods and Related Services in Section 6, Procuring Entity's Requirement or adjustment as stated under ITT Sub-clause 55.6, shall be taken into account in the Tender evaluation. Supplier-recommended spare parts for a specified operating requirement as stated under ITT Sub-clause 29.3(b) shall not be considered in Tender evaluation.   |
|   | 55.5 | Variations, deviations, alternatives and other factors which are in excess of the requirements of the Tender Document or otherwise result in unsolicited benefits for the Procuring Entity will not be considered in Tender evaluation.  |
|   | 55.6 | <p>The Procuring Entity's evaluation of a Tender may require the consideration of other factors, in addition to the Tender price quoted as stated under ITT Clause 26. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of Tenders. The factors, methodologies and criteria to be used shall be as specified in <b>TDS</b>. The applicable economic factors, for the purposes of evaluation of Tenders shall be:</p> <ul style="list-style-type: none"> <li>(a) adjustment for deviations in the Delivery and Completion Schedule;</li> <li>(b) cost of major replacement components, mandatory spare parts and service.</li> </ul> |
|   | 55.7 | TEC may recommend to increase the amount of the Performance Security above the amounts as stated under ITT Sub Clause 66.1 but not exceeding twenty-five (25) percent of the Contract Price, if in the opinion of the TEC, it is found that the item prices are unbalanced.  |
| <b>56. Identifying Significantly Low-priced Tenders (SLT)</b> | 56.1 | Prices of all technically responsive Tenderers shall be checked to identify Significantly Low-priced Tender through a specified manner mentioned in the following Sub Clauses.   |
|   | 56.2 | <p>During the evaluation of tenders, the proposed prices of all technically responsive tenderers (at least two tenders) shall be used to determine a Weighted Average, considering:</p> <ul style="list-style-type: none"> <li>i. the official cost estimate,</li> <li>ii. the prices obtained from the recent Price Index in public procurement processes following ITT Sub Clause 56.4 and</li> <li>iii. the tenderers' quoted prices.</li> </ul>  |

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|  |      | <p>The weights shall be as follows:</p> <ul style="list-style-type: none"> <li>• official cost estimate = <b>0.20</b></li> <li>• Prices obtained from the recent Price Index = <b>0.30</b></li> <li>• Prices quoted by all responsive tenderers = <b>0.50</b></li> </ul> <p>The formula shall be:</p> $\bar{x} = 0.5 * \frac{1}{n} \sum_{i=1}^n x_i + 0.2 * x_{OCE} + 0.3 * x_{NPPI}$ <p>Thereafter, the Weighted Standard Deviation (sd) of the quoted prices of all responsive tenders shall be determined using the following formula:</p> $sd = \sqrt{\frac{(x_i - \bar{x})^2}{n}}$ <p>Where:</p> <ul style="list-style-type: none"> <li>• <math>x_i</math> = Quoted prices of tenderers</li> <li>• <math>\bar{x}</math> = Weighted Average</li> <li>• <math>n</math> = Number of responsive tenderers.</li> </ul> |
|  | 56.3 | Finally, the lower limit of acceptable prices shall be [ $\bar{x}$ (x bar)–sd]. Any tender quoted below this limit shall be considered as a significantly low-priced tender and shall be treated as financially non-responsive and rejected.   |
|  | 56.4 | For determining the recent National Public Procurement Price Index, a national average percentage deviation for Goods procurement category shall be calculated from the e-GP system over a period of 28 days-consisting of the day of tender opening and the preceding 27 days.  |

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|  | 56.5 | <p>To determine the NPPI, in all procurement processes (except for cases under the Limited Tendering Method in National procurement) where a Notice of Award has been issued during 28-days period, the percentage deviation between the officially estimated price and the awarded tender price shall be calculated, and the national average of such deviations shall be determined.</p> <p><math>X_{NPPI}</math> shall be determined through multiplication between officially estimated price and NPPI derived from the e-GP system.</p> |
|  | 56.6 | In the case of only one technically responsive tender, the above methodology shall not be applied; instead, the lowest evaluated price obtained shall be directly compared with the official cost estimate. If the deviation of the evaluated price of the responsive tender from the official estimate exceeds  |

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|  |  | twenty percent (20%), such tender shall be deemed non-responsive. If the deviation of the evaluated price from the official cost estimate is twenty percent (20%) or less, the said tenderer may be recommended for issuance of the Notification of Award subject to successful Post-Qualification verification under ITT Sub Clause 59. |
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| <b>57. Price Comparison</b> | 57.1 | The lowest-priced Tender among the technically and financially responsive Tenders through ITT Clause 52 shall be determined as the Lowest Evaluated Responsive Tender and shall be recommended for issuance of the Notification of Award subject to successful Post-Qualification verification under ITT Sub Clause 59.   |
|                             | 57.2 | In the extremely unlikely event that there is a tie for the lowest evaluated price, the Tender Evaluation Committee shall initially examine the possible presence of collusive practices, and if such practices are found, further actions shall be taken in accordance with Rule 149 of the PPR 2025.  |
|                             | 57.3 | Where there is a tie in the lowest evaluated bid but no case of the collusive practice is identified, the Tenderer with the superior past performance with the Procuring Entity shall be selected, whereby factors such as delivery period, quality of Goods delivered, complaints history and performance indicators could be taken into consideration.  |
|                             | 57.4 | In the event that there is a tie for the lowest price and none of the Tenderers has the record of past performance with the Procuring Entity as stated under ITT Sub Clause 57.3, then the Tenderer shall be selected, subject to firm confirmation through the Post-qualification process, after consideration as to whether the quality of Goods that is considered more advantageous by the end-users.   |
|                             | 57.5 | The successful Tenderer shall not be selected through lottery under any circumstances.  |
| <b>58. Negotiations</b>     | 58.1 | No negotiations shall be held during the financial offer evaluation or award, with the lowest or any other Tenderer.  |
|                             | 58.2 | The Procuring Entity through the TEC may, however, negotiate with the lowest evaluated Tenderer with the objective to reduce the Contract Price by reducing the scope of works or a reallocation of risks and responsibilities, only when it is found that the lowest evaluated Tender is significantly higher than the official estimated cost; the reasons for such higher price being duly investigated. |
|                             | 58.3 | If the Procuring Entity decides to negotiate for reducing the scope of the requirements under ITT Sub Clause 58.2, it will be required to guarantee that the lowest Tenderer remains the lowest Tenderer even after the scope of work has been revised and shall further be ensured that the objective of the Procurement will not be seriously affected through this reduction.                            |

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|   | 58.4 | In the event that the Procuring Entity decides because of a high Tender price to reduce the scope of the requirements to meet the available budget, the Tenderer is not obliged to accept the award and shall not be penalised in any way for un-accepting the proposed award.  |
| <b>59. Post-qualification</b>   | 59.1 | The determination on Post-qualification shall be based upon an examination and verification of the documentary evidence of the Tenderer's eligibility and qualifications submitted by the Tenderer, pursuant to ITT Clauses 28, 30 and 31, clarifications as stated under ITT Clause 48 and the qualification criteria indicated in ITT Clauses 12 to 18. Factors not included therein shall not be used in the evaluation of the Tenderer's qualification. |
|   | 59.2 | An affirmative determination shall be a prerequisite for award of the Contract to the Tenderer. A negative determination shall result in non-responsiveness of the Tenderer's Tender, in which event the Procuring Entity shall proceed to the next lowest evaluated Tender to make a similar determination of that Tenderer's capabilities to perform the Contract satisfactorily, if awarded.   |
|   | 59.3 | TEC may verify information contained in the Tender by visiting the premises of the Tenderer as a part of the post qualification process, if practical and appropriate.  |
|   | 59.4 | The objective of any visit under ITT Sub-Clause 59.3 shall be limited to a general and visual inspection of the Tenderer's facilities and its plant and equipment, and there shall be no discussion concerning the Tender or its evaluation with the Tenderer during such visit(s).   |
| <b>60. Procuring Entity's Right to Accept any or to Reject Any or All Tenders</b> | 60.1 | The Procuring Entity reserves the right to accept any Tender or to reject any or all the Tenders any time prior to contract award and, to annul the Procurement proceedings with prior approval of the Head of the Procuring Entity, any time prior to contract award following specified procedures, without thereby incurring any liability to Tenderers, or any obligations to inform the Tenderers of the grounds for the Procuring Entity's action.    |
| <b>61. Rejection of All Tenders</b>   | 61.1 | The Procuring Entity may, in the circumstances as stated under ITT Sub Clause 61.2 reject all Tenders following recommendations from the TEC only after the approval of such recommendations by the Head of the Procuring Entity.   |
|   | 61.2 | All Tenders can be rejected, if - <ul style="list-style-type: none"> <li>(a) the price of the lowest evaluated Tender exceeds the official estimated cost, provided the estimate is realistic, or</li> <li>(b) there is evidence of lack of effective competition; such as non-participation by a number of potential Tenderers; or</li> </ul>  |

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|  |      | <p>(c) the Tenderers are unable to propose completion of the contract within the stipulated time in its Tender; though the stipulated time is reasonable and realistic; or</p> <p>(d) all Tenders are non-responsive; or</p> <p>(e) If, in the tendering process or in the tender documents, any defect, deviation, or inconsistency is observed, which appears to hinder the objective of public procurement should the procurement process be continued; or</p> <p>(f) evidence of professional misconduct, affecting seriously the Procurement process, is established pursuant to Rule 149 of the Public Procurement Rules, 2025.</p> |
|  | 61.3 | Notwithstanding anything contained in ITT Sub-Clause 61.2 Tenders may not be rejected if the lowest evaluated price is in conformity with the market price.   |
| <b>62. Informing Reasons for Rejection</b> | 62.1 | Notice of the rejection will be given promptly within three (3) working days of decision taken by the Head of the Procuring Entity to all Tenderers and, the Procuring Entity will, upon receipt of a written request, communicate to any Tenderer the reason(s) for its rejection but is not required to justify those reason(s).  |

### G. Contract Award

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| <b>63. Award Criteria</b>        | 63.1 | The Procuring Entity shall award the Contract to the Tenderer whose Tender is responsive to all the requirements of the Tender Document and that has been determined to be the lowest evaluated Tender, provided further that the Tenderer is determined to be Post-qualified in accordance with ITT Clause 59. |
|                                  | 63.2 | Tenderer will not be required, as a condition for award, to undertake responsibilities not stipulated in the Tender Documents, to change its price, or otherwise to modify its Tender.  |
| <b>64. Notification of Award</b> | 64.1 | Prior to the expiry of the Tender Validity period and within three (3) working days of receipt of the approval of the award by the Approving Authority, the Procuring Entity shall issue the Notification of Award (NOA) to the successful Tenderer.  |
|                                  | 64.2 | <p>The NOA, (Form PG5A-9) attaching the Contract Agreement as per the sample (Form PG5A-10) to be signed, shall state:</p> <p>(a) the acceptance of the Tender by the Procuring Entity;</p> <p>(b) the price at which the contract is awarded;</p> <p>(c) the amount of the Performance Security and its</p>    |

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|   |      | <p>format;</p> <p>(d) the date and time within which the Performance Security shall be furnished; and</p> <p>(e) the date and time within which the Contract shall be signed.</p>   |
|   | 64.3 | In the event, the Tenders were invited for one (1) or more items on an “item-by-item” basis, contract(s) will comprise the corresponding item(s) awarded to the successful Tenderer(s) and, Contract(s) will be signed per each of the successful Tenderer(s) covering the corresponding item(s).   |
|   | 64.4 | In the event, the Tenders were invited for a single lot, contract will comprise the corresponding items in the lot awarded to the successful Tenderer and, Contract will be signed with the successful Tenderer of the lot, covering the item(s).   |
|   | 64.5 | In the event, the Tenders were invited for a number of lots on a “lot-by-lot” basis, contracts will comprise the corresponding items in a lot awarded to the successful Tenderer(s) and, Contract(s) will be signed per each of the successful Tenderer(s) per lot, covering the corresponding item(s).   |
| <b>65. Reporting on Contract Awarding</b>                             | 65.1 | Immediately, but no later than 24 hours, after issuing the Notification of Award, the Procuring Entity shall, for the information of other tenderers and procurement-related stakeholders, publish the contract award details <b>Format PG5A-B</b> on the his/her notice board or on its own website, as well as on the BPPA website. Such information shall remain displayed on the notice board or retained on the website for at least twenty-eight (28) days. |
| <b>66. Performance Security</b>                                       | 66.1 | Performance Security shall be provided by the successful Tenderer in BDT currency and within the timeline as mentioned in the <b>TDS</b> .  |
|   | 66.2 | The proceeds of the Performance Security shall be payable to the Procuring Entity unconditionally upon first written demand as compensation for Contractor’s failure to complete its obligations under the Contract.  |
|   | 66.3 | In the event a Government owned enterprise as stated under ITT Sub Clause 5.10 is the successful Tenderer, there shall be Security Deposit as specified in the <b>TDS</b> , in lieu of the Performance Security, as stated under ITT Sub Clause 66.1  |
| <b>67. Form and Time Limit for Furnishing of Performance Security</b> | 67.1 | Performance Security, as stated under ITT Clause 66, may be in the form of a Bank Draft, or a Pay Order or an irrevocable unconditional Bank Guarantee in the format ( <b>Form PG5A-11</b> ), without any alteration, issued by any Scheduled Bank of Bangladesh acceptable to the Procuring Entity.  |
|   | 67.2 | Within the timeline mentioned in the TDS from the issuance of the NOA but not later than the date specified therein, the successful Tenderer shall furnish the Performance Security for the due performance of the Contract in the amount as stated   |

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|   |      | under ITT Sub Clauses 66.1 or 66.2.  |
| <b>68. Validity of Performance Security</b>         | 68.1 | Performance Security shall be required to be valid until a date twenty-eight (28) days beyond the Intended Completion Date as specified in Tender Document.  |
| <b>69. Authenticity of Performance Security</b>     | 69.1 | The Procuring Entity shall verify the authenticity of the Performance Security submitted by the successful Tenderer by sending a written request to the branch of the Bank issuing the Pay Order or Bank Draft or irrevocable unconditional Bank Guarantee in specified format.  |
|   | 69.2 | In case of Performance Security being found unauthentic, measures shall be taken following ITT Sub Clause 4.4.   |
| <b>70. Retention Money and Contractual Security</b> | 70.1 | Upon the completion of delivery of Goods and subsequent acceptance by the TEAC, the Procuring Entity shall deduct from the payment certificate, a retention amount at the percentage rate as mentioned in <b>TDS</b> .   |
|   | 70.2 | The Performance Security mentioned in ITT Sub Clause 66.1 and the money to be retained as per ITT Sub Clause 70.1 will together be considered as the Contractual Security.   |
|   | 70.3 | The Contractual Security against the contract shall not go beyond the amount mentioned in the <b>TDS</b> unless it is recommended by the TEC to extend as mentioned in ITT Sub Clause 70.4.  |
|   | 70.4 | The Procuring Entity shall increase the amount of the Contractual Security on the recommendation of TEC above the amounts as per Rule 36(2) of the PPR 2025.   |
| <b>71. Contract Signing</b>                         | 71.1 | At the same time as the Procuring Entity issues the NOA, the Procuring Entity will send the draft Contract Agreement and all documents forming the Contract to the successful Tenderer.  |
|   | 71.2 | Within the timeline mentioned in the <b>TDS</b> from the issuance of the NOA but not later than the date specified therein, the successful Tenderer and the Procuring Entity shall sign the contract.  |
|   | 71.3 | Failure of the successful Tenderer to submit the Performance Security, as stated under ITT Sub Clause 66.1, or to sign the Contract, as stated under ITT Sub Clauses 71.1 and 71.2, shall constitute sufficient grounds for the annulment of the award and forfeiture of the Tender Security. In that event the Procuring Entity may award the Contract to the next lowest evaluated responsive Tenderer, who is determined by the TEC to be qualified to perform the Contract satisfactorily. |

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| <b>72. Notification of Contract Signing</b> | 72.1 | Immediately, but no later than three (3) days after the signing of contract, the Procuring Entity shall publish the contract-related information, in the format prescribed in <b>Format PG5A-C</b> on the his/her notice board or on its own website. The Procuring Entity shall also publish, on the BPPA website or web portal, the contract-related information together with details of the beneficial ownership of the successful Tenderer. This information shall be kept posted in the notice board or websites for at least thirty (30) days. |
| <b>73. Debriefing of Tenderers</b>          | 73.1 | Debriefing of Tenderers by the Procuring Entity shall outline the relative status and weakness only of his or her Tender requesting to be informed of the grounds for not accepting the Tender submitted by him or her, without disclosing information about any other Tenderer.  |
|   | 73.2 | In the case of debriefing, confidentiality of the evaluation process shall be maintained.   |
| <b>74. Adjudicator</b>                      | 74.1 | The Procuring Entity proposes the person named in the <b>TDS</b> to be appointed as Adjudicator under the Contract, at an indicative hourly fee and for those reimbursable expenses as specified in the <b>TDS</b> .  |
| <b>75. Right to Complain and appeal</b>     | 75.1 | Tenderer has the right to complain and appeal in accordance with the Sections 29 and 30 of Public Procurement Act 2006 and the Rule 72 of Public Procurement Rules, 2025. The Procuring Entity shall cause to dispose of the complaint and appeal in accordance with the provisions of Section 30 of Public Procurement Act 2006 and Rules 72-77 of Public Procurement Rules, 2025.   |



## Section 2. Tender Data Sheet

| ITT Clause                | Amendments of, and Supplements to, Clauses in the Instruction to Tenderers  |
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| <b>A. General</b>         |   |
| ITT 1.1                   | <p><b>The Purchaser is:</b> Senior General Manager, Bhola Palli Bidyut Samity.<br/> <b>Address:</b> Bhola Palli Bidyut Samity, Banglabazar, Bhola.<br/> <b>Telephone:</b> 01769-400014<br/> <b>Email:</b> <a href="mailto:bhopbs@gmail.com">bhopbs@gmail.com</a></p> <p><i>The Name and identification number of Tender are:</i><br/> <b>Name:</b> <i>Procurement of Solar Energy from 4.136 MWp Rooftop Solar System in Bhola Palli Bidyut Samity ( LALMOHON UPAZILLA) Area on BOO (Build, Own, Operate) Basis following OpEx Model.</i></p> |
| ITT 1.1                   | The number, identification and name of lots comprising the Tender are: N/A.   |
| ITT 3.1                   | <p>The source of public funds is: Bhola Palli Bidyut Samity's Own Fund for purchase of electricity.</p> <p>The Contractor shall procure, implement, operate and maintain the project and dismantle it after completion of project at its own cost. Bhola Palli Bidyut Samity will purchase the generated electricity from its own fund from the date of COD.</p>  |
| ITT 3.3                   | The name of the Development Partner is: N/A.  |
| ITT 5.1                   | Tenderers from the following countries are not eligible: Israel.  |
| ITT 6.1                   | Materials, Equipment and associated services from the following counties are not eligible: Israel.  |
| <b>B. Tender Document</b> |   |
| ITT 8.2                   | <p>The following are the offices of the Purchaser or authorised agents for the purpose of providing the Tender Document:</p> <p>Senior General Manager, Bhola Palli Bidyut Samity.<br/> <b>Address:</b> Bhola Palli Bidyut Samity, Banglabazar, Bhola<br/> <b>Telephone:</b> 01769-400014<br/> <b>Email:</b> <a href="mailto:bhopbs@gmail.com">bhopbs@gmail.com</a></p>   |
| ITT 9.1                   | <p>For <b>clarification of Tender Document purposes</b> only, the Procuring Entity's address is:</p> <p>Senior General Manager, Bhola Palli Bidyut Samity.<br/> <b>Address:</b> Bhola Palli Bidyut Samity, Banglabazar, Bhola<br/> <b>Telephone:</b> 01769-400014</p>   |

|                                  |   |   |                                       |
|----------------------------------|---|---|---------------------------------------|
|                                  | Email: <b>bhopbs@gmail.com</b><br>and contact the Procuring Entity within: 07 Days before Tender submitted  |   |                                       |
| <b>ITT 10.1</b>                  | The Pre- Tender meeting shall be held at<br>Address: <b>Bhola Palli Bidyut Samity, Banglabazar, Bhola</b><br>Time & Date: <b>05. 02.2026; 11:00 AM (BST)</b>  |   |                                       |
| <b>C. Qualification Criteria</b> |   |   |                                       |
| <b>ITT 13.1(a)</b>               | The Tenderer shall have a minimum of 03 (three) years of overall general experience in the role of contractor for supplying the Plant and Services  |   |                                       |
| <b>ITT 13.1(b)</b>               | The minimum specific experience as a Contractor or Subcontractor or Management Contractor in similar to the proposed plant and services i.e. design, procurement, installation, testing & commissioning of minimum 1.034 MWP of tendered Grid Tied/Hybrid Solar Power System capacity in maximum 10 (ten) contract of similar nature, complexity and methods/construction technology successfully completed within the last 10 (ten) years ( <i>counting backward from the date of publication of IFT in the newspaper</i> ). |   |                                       |
| <b>ITT 14.1 (a)</b>              | The maximum 03 (three) number of arbitrations against the Tenderer over a period 05 (five) years.   |   |                                       |
| <b>ITT 14.1(b)</b>               | The minimum amount as liquid asset or working capital or credit line(s) or specific credit commitment or in any combination of them of the Tenderer shall be <b>BDT 14,47,60,000.00</b> only or equivalent USD.   |   |                                       |
| <b>ITT 14.1(c)</b>               | The required average annual turnover shall be greater than BDT <b>14,47,60,000.00</b> only or equivalent USD within best two (2) years in the last five (5) years ( <i>counting backward from the date of publication of IFT in the newspaper</i> ).  |   |                                       |
| <b>ITT 15.1</b>                  | A Project Manager, Engineer, and other key staff shall have the following qualifications and experience:  |   |                                       |
|                                  | <b>Sl. No.</b>  | <b>Position</b>                           | <b>Total Works Experience (Years)</b> |
|                                  | 01.   | Project Manager                           | 10                                    |
|                                  | 02.   | Safety executive                          | 05                                    |
|                                  | 03.   | Solar System Design Engineer (Electrical) | 05                                    |
|                                  | 04.   | Site Engineer                             | 05                                    |
| <b>ITT 16.1</b>                  | The Tenderer shall own or have proven access to hire or lease of the major equipment, in full working order as follows:   |   |                                       |
|                                  | <b>Sl. No.</b>  | <b>Equipment Type and Characteristics</b> | <b>Minimum Number Required</b>        |

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|                                 | 01.  | Clamp on Meter                          | 20                                      |
|                                 | 02.  | Solar Radiation Measurement Meter       | 10                                      |
|                                 | 03.  | Safety tools                            | As required                             |
| ITT 17.1                        | The value of non-judicial stamp for execution of the Joint Venture Agreement shall be Tk 300 only.   |   |   |
|                                 | Maximum number of partners in the JV shall be: 03 (three). Foreign companies, in addition to local companies, are allowed to participate as a single entity or JV partner in the tender. |   |   |
| ITT 17.2                        | Maximum number of partners in the JV shall be: 03 (three)  |   |   |
|                                 | The <b>minimum qualification</b> requirements of Leading Partner, other Partner(s) and requirements by summation of a JV shall be as follows:  |   |   |
|                                 | <b>ITT Clauses References</b>  | <b>Requirements by summation</b>        | <b>Requirements for Leading Partner</b> |
|                                 | ITT-13.1(a)  | Summation not applicable                | Same as stated in TDS                   |
|                                 | ITT-13.1(b)  | 100% (summation of different contracts) | At least one Contract as stated in TDS  |
|                                 | ITT-14.1(b)  | 100%                                    | 40%                                     |
|                                 | ITT-14.1(c)  | 100%                                    | 40%                                     |
|                                 | ITT-15.1   | 100%                                    | Minimum requirement not applicable      |
|                                 | ITT-16.1   | 100%                                    | Minimum requirement not applicable      |
|                                 | ITT-17.5   | 100%                                    | Maximum among the Partners              |
| <b>D. Preparation of Tender</b> |  |   |   |
| ITT 18.1                        | The maximum percentage of Goods allowed to be subcontracted: N/A   |   |   |
| ITT 18.4                        | The Nominated Subcontractor(s) named [ <i>insert name(s)</i> ] shall execute the following specific components of the proposed Works: N/A  |   |   |
| ITT 19.1                        | Tenders are being invited for single lot.  |   |   |
| ITT 23.2(f)                     | Tenderers shall have the following up to date valid License:<br>Valid Electrical Supervisory ABC License from Office of the Chief Electric Inspector.                                    |   |   |
| ITT 23.2(s)                     | The Tenderer shall submit with its technical offer the following additional documents:<br>1. Completion/Performance Certificate from the End User as proof of General                    |   |   |

|         | <p>Experience (Section 02: ITT14.1(a)).</p> <p>2. Completion/Performance Certificate from the End User as proof of Specific Experience (Section 02: ITT14.1(a)).</p> <p>3. Audited balance sheets (containing name of the audit firm, email ID, phone number) of best two (2) years in the last five (5) years (counting backward from the date of publication of IFT in the newspaper).</p> <p>4. Bank Statement Certificate(s) mentioning available balance. The date of such certificate(s) shall be in between date of publication of IFT in the newspaper and tender submission date.</p> <p>5. Curriculum Vitae (CV), Educational Certificate &amp; Work Experience Certificate of the proposed Project Manager, Solar System Design Engineer (Electrical) &amp; Site Engineer (Civil).</p> <p>These proposed personnel shall have the following minimum educational qualifications:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sl. No.</th> <th style="text-align: center;">Position</th> <th style="text-align: center;">No. (Minimum)</th> <th style="text-align: center;">Educational Qualifications</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">01.</td> <td>Project Manager</td> <td style="text-align: center;">1</td> <td>Minimum Graduation in any subject.</td> </tr> <tr> <td style="text-align: center;">02.</td> <td>Safety executive</td> <td style="text-align: center;">1</td> <td>Minimum Graduation in any subject.</td> </tr> <tr> <td style="text-align: center;">03.</td> <td>Solar System Design Engineer (Electrical)</td> <td style="text-align: center;">1 per 100 sites</td> <td>Minimum Graduation in EEE.</td> </tr> <tr> <td style="text-align: center;">04.</td> <td>Site Engineer</td> <td style="text-align: center;">1 per 20 sites</td> <td>Minimum Diploma in Civil / Electrical.</td> </tr> </tbody> </table> <p>Work Experience requirements for these proposed personnel is mentioned in Section 2: ITT 16.1(a).</p> <p>6. Manufacturer's technical catalogues of the following items:</p> <ol style="list-style-type: none"> <li>a. Solar PV Panel.</li> <li>b. On-Grid Solar Inverter.</li> </ol> <p>7. Test Report-</p> <ol style="list-style-type: none"> <li>a. Test report of Solar PV Panel &amp; On-Grid Solar Inverter from any ILAC MRA accredited laboratory or any third-party laboratory. This requirement will be exempted if proposed models are SREDA enlisted.</li> <li>b. Test report of Energy Meter from any Independent Testing Laboratory.</li> </ol> <p>8. Name, address, mobile number, and email ID of Local Agent, if the tenderer is from outside Bangladesh and does not have a Bangladeshi JV partner.</p> | Sl. No.         | Position                               | No. (Minimum) | Educational Qualifications | 01. | Project Manager | 1 | Minimum Graduation in any subject. | 02. | Safety executive | 1 | Minimum Graduation in any subject. | 03. | Solar System Design Engineer (Electrical) | 1 per 100 sites | Minimum Graduation in EEE. | 04. | Site Engineer | 1 per 20 sites | Minimum Diploma in Civil / Electrical. |
|---------|---|-----------------|--|---------------|----------------------------|-----|-----------------|---|------------------------------------|-----|------------------|---|------------------------------------|-----|---|-----------------|----------------------------|-----|---------------|----------------|--|
| Sl. No. | Position  | No. (Minimum)   | Educational Qualifications             |               |                            |     |                 |   |                                    |     |                  |   |                                    |     |   |                 |                            |     |               |                |  |
| 01.     | Project Manager   | 1               | Minimum Graduation in any subject.     |               |                            |     |                 |   |                                    |     |                  |   |                                    |     |   |                 |                            |     |               |                |  |
| 02.     | Safety executive  | 1               | Minimum Graduation in any subject.     |               |                            |     |                 |   |                                    |     |                  |   |                                    |     |   |                 |                            |     |               |                |  |
| 03.     | Solar System Design Engineer (Electrical)   | 1 per 100 sites | Minimum Graduation in EEE.             |               |                            |     |                 |   |                                    |     |                  |   |                                    |     |   |                 |                            |     |               |                |  |
| 04.     | Site Engineer   | 1 per 20 sites  | Minimum Diploma in Civil / Electrical. |               |                            |     |                 |   |                                    |     |                  |   |                                    |     |   |                 |                            |     |               |                |  |

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|                 | <p>9. A Site Visit Report, following the format provided in Annexure B of the Tender Document.</p> <p>10. Operational, Maintenance and safety manual for the proposed system.</p> <p>11. Properly filled up guaranteed technical particulars (GTP)</p>   |
| ITT 23.2(g) ii. | Income Tax Assessment Year shall be 2023-24.   |
| ITT 23.3(d)     | <p>The Tenderer shall submit with its financial offer the following additional documents:</p> <ul style="list-style-type: none"> <li>• A photo copy of tender security.</li> </ul>   |
| ITT 25.1        | Alternatives will not be permitted.  |
| ITT 26.3        | Tenderers shall quote for the entire Plant and Installation Services on a single responsibility basis.   |
| 26.7(a)         | Place of Destination: Project sites, and/or Designated stores at Bhola Palli Bidyut Samity area.   |
| 26.7(d)         | Local transportation to named place of final destination is: Project sites, and/or Designated stores at Bhola Palli Bidyut Samity area.  |
| ITT 26.9        | <p>The prices quoted by the Tenderer shall be quoted as follows:</p> <p>The price quoted by the Tenderer shall be less than sum of the bulk rate at 33 kV voltage level and wheeling Charge prevailing on the last date of tender submission. The price shall be fixed for the entire contract period.</p> |
| ITT 27.4        | Name of the foreign currency: N/A.   |
| ITT 29.3 (b)    | <p>Spare parts are: as per field requirement to make the system active and to be provided by the contractor</p> <p>Period of time the Equipment are expected to be functioning (for the purpose of spare parts): N/A</p>   |
| ITT 31.1(d)     | The required information regarding claims under litigation shall be current or during the last 03 (three) years.   |
| ITT 31.1(e)     | <p>A Manufacturer's Authorisation Letter is required for:</p> <ol style="list-style-type: none"> <li>a. Solar PV Panel.</li> <li>b. On-Grid Solar Inverter.</li> <li>c. Energy Meter.</li> </ol>   |

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| ITT 31.1(g)                    | The required reports on the financial standing, such as profit and loss statements and audited balance sheet shall be for the past 02 (two) years in last 5 years.   |
| ITT 32.2                       | The Tender Validity period shall be 120 (One hundred and Twenty) days.   |
| ITT 34.1                       | <p>The amount of the Tender Security shall be BDT <b>28,95,200.00</b> only in favour of <b>Bhola Palli Bidyut Samity</b>.</p> <p>Any tender not accompanied by a Tender Security in compliance with the above amount shall be rejected. The Tenderer shall submit the original of above Tender Security with the original technical proposal, otherwise the tender shall be rejected.</p> <p>Tender Security must be furnished in the Technical Proposal, not in the Financial Proposal.</p> <p>The tender security should be in the form as depicted in ITT clause 33.1. The tender security in the form like SWIFT copy or any other way is not acceptable. If any tenderer submitted tender security in the form of SWIFT copy or any other way, the tender shall be rejected.</p> <p>Tender Security must be endorsed by any Schedule Bank of Bangladesh.</p>  |
| ITT 39.1                       | <p>In addition to the Original of the Tender, 01 (One) copy of Technical and Financial proposal shall be submitted.</p> <p>Both original &amp; copy of the Technical and Financial proposal shall be submitted in <b>book binding format</b> along with <b>sequential page number</b>.</p> <p>Moreover, <b>Soft copy</b> of the <b>Technical Proposal</b> in PDF Format and <b>Soft copy</b> of the <b>GTPs</b> in word Format (.doc/.docx) shall be submitted in a pen-drive along with the tender.</p> <p>It is to be noted that, <b>Soft copy</b> of the <b>Financial Proposal</b> shall <b>not</b> be submitted in the pen-drive.</p>  |
| <b>E. Submission of Tender</b> |  |
| ITT 40.2 (e) & ITT 40.4(e)     | <p>The Tender shall be single stage two envelope. Technical and financial proposal shall be submitted in two separate envelopes duly sealed and signed, which shall be in a single envelope duly addressed to the employer. The Technical envelope will be opened first. The original 'Technical Offer' and the envelope containing all copies and original of 'Financial Offer' will be kept in safe custody of "Office of the Company Secretary <b>Bhola Palli Bidyut Samity</b> Financial Proposal of only technically responsive bids will be opened at date and time to be notified later to the respective bidder. The Financial Proposal of the technically non-responsive bidder will be returned unopened to the respective bidder.</p> <p>The tenderer shall enclose the original Technical Proposal and Financial Proposal in different envelope. The envelopes will be marked as 'Technical Proposal - Original' and 'Financial Proposal - Original'. Similarly copies of technical and financial proposal will be enclosed in two different envelopes and the envelope will be marked</p> |

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|  | <p>'Technical Proposal - Copy' and 'Financial Proposal - Copy'. Then original Technical Proposal envelope and copy of the technical proposals will be put into another envelope and the envelope will be marked as 'Technical Proposal'. Similarly, Original of the Financial Proposal and Copy of the Financial Proposal will put into another envelope will be marked as 'Financial Proposal'. These two envelopes of Technical Proposal and Financial proposal shall then be enclosed one single outer envelope. All the envelopes should be duly sealed and signed by the bidder.</p> <p>The envelopes of all Financial proposals shall be kept in sealed condition, until opening of financial proposals, in the office of the [to be mentioned by Utility].</p> <p><b>Both Technical and Financial Proposals shall be submitted in book binding format. Each page shall contain sequential page number.</b></p> |
| <p><b>ITT 41.1</b></p>                             | <p>For <b>Tender submission purposes</b> only,<br/>the Procuring Entity's address is: Senior General Manager, Bhola Palli Bidyut Samity.<br/>Address: : Bhola Palli Bidyut Samity, Banglabazar, Bhola<br/>Telephone: 01769-400014<br/>Email: <a href="mailto:bhopbs@gmail.com">bhopbs@gmail.com</a></p> <p><u>The Tender shall be submitted at:</u></p> <p><i>1. Primary Place: HQ, Bhola Palli Bidyut Samity, Banglabazar, Bhola.</i></p> <p>The deadline for the submission of Tenders is:<br/>Time &amp; Date: 12:00 PM &amp; 18-02-2026</p>   |
| <p><b>F. Opening and Evaluation of Tenders</b></p> |   |
| <p><b>ITT 44.1</b></p>                             | <p>The technical offer opening shall take place at:<br/>Senior General Manager, Bhola Palli Bidyut Samity.<br/>Address: Bhola Palli Bidyut Samity, Banglabazar, Bhola<br/>Telephone: 01769-400014<br/>Email: <a href="mailto:bhopbs@gmail.com">bhopbs@gmail.com</a><br/>Date: 18. 02.2026<br/>Time: <b>12:30 PM (BST)</b></p>   |
| <p><b>ITT 55.6</b></p>                             | <p>The applicable economic factors, for the purposes of evaluation of Tenders shall be: N/A</p> <p>(a) <b><u>Adjustment for Deviations in the Delivery and Completion Schedule</u></b></p> <p>"The Goods covered by this Tendering process are required to be delivered in accordance with, and completed within, the Delivery and Completion Schedule specified in Section 6, Schedule of Requirements. No credit will be given for earlier completion. Tender offering late contract performance</p>  |

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|                             | <p>schedules within acceptable period will be accepted but the Tenders shall be adjusted in the evaluation by adding to the Tender Price at the rate of [<i>specify percentage</i>] of the Tender Price for each day of delay. Tender offering delivery schedules beyond [<i>specify time limit</i>] of the date specified in Section 6, Schedule of Requirement, shall be rejected.”</p> <p><i>[delete, if not appropriate]</i></p> <p>(b) <b><u>Cost of major replacement components, mandatory spare parts, and service</u></b></p> <p>List of high-usage and high-value items of components and spare parts [<i>specify (spare parts, tools, major assemblies, estimated quantities)</i>] of usage in the initial period [<i>specify period</i>] of operation. The total cost of these items and quantities will be computed from spare parts unit prices submitted by the Tenderer and added to the Tender price, for evaluation purposes only.</p> <p><i>[delete, if not appropriate]</i></p> <p>(c) <b><u>Other factors affecting the true economic value</u></b></p> <p>The Procuring Entity will draw up other factors affecting the true economic value of the Tender price may be life span costs, such as cost of fuel, performance or productivity of the equipment, etc. The total cost of these items and quantities will be computed from submitted Tender and added to the tender price, for evaluation purposes only.</p> <p><i>[delete, if not appropriate]</i></p> |
| <b>G. Award of Contract</b> |  |
| <b>ITT 66.1</b>             | <p>The Contract Period shall be divided into 02 (two) distinct phases. Performance Security shall be applicable to Phase 01 only in the following manner:</p> <ul style="list-style-type: none"> <li>• Duration of this phase shall be 06 months from the date of effective date.</li> <li>• The Contractor shall submit a Performance Security of BDT <b>20,68,000.00</b> <i>or equivalent USD</i>.</li> <li>• The Performance Security shall remain valid until the Commercial Operation Date (COD).</li> <li>• Performance Security must be endorsed by any Schedule Bank of Bangladesh.</li> </ul>   |
| <b>ITT 66.3</b>             | <p>The Security Deposit shall be deducted @ ten (10) percent from the successful Tenderer’s (any government enterprise) payable invoices during Contract implementation, if awarded the Contract : Not applicable (NA)</p>   |
| <b>ITT 70.1</b>             | <p>The Procuring Entity shall deduct from the payment certificate, a retention amount at the percentage rate of ten (10) percent from the payment certificate as Retention Money: Not applicable (NA)</p>  |

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| ITT 70.3 | The Contractual Security against the contract shall not go beyond ten (10) percent of the contract price: Not applicable (NA)             |
| ITT 71.2 | The successful Tenderer shall sign the contract with the Procuring Entity within 21 days of issuance of the Notification of Award (NoA).  |
| ITT 74.1 | The Adjudicator proposed by the Procuring Entity is <i>President, IEB/Chairman, SREDA</i> . The hourly fee shall be <i>BDT 5,000.00</i> . |

## Section-III: General Conditions of Contract

### A. General

|                              |            |   |
|------------------------------|------------|---|
| <p><b>1. Definitions</b></p> | <p>1.1</p> | <p>In the Conditions of Contract, which include Particular Conditions and these General Conditions, the following words and expressions shall have the meaning hereby assigned to them. Boldface type is used to identify the defined terms:</p> <ul style="list-style-type: none"> <li>(a) <b>Act means</b> The Public Procurement Act, 2006 (Act 24 of 2006).</li> <li>(b) <b>Adjudicator</b> is the expert appointed jointly by the Procuring Entity and the Contractor to resolve disputes in the first instance, as provided for in GCC Sub Clause 82.2.</li> <li>(c) <b>Completion</b> means that the Facilities (or a specific part thereof where specific parts are specified in the Contract) have been completed operationally and structurally and put in a tight and clean condition, that all work in respect of Pre-Commissioning of the Facilities or such specific part thereof has been completed, and that the Facilities or specific part thereof are ready for Commissioning</li> <li>(d) <b>Completion Schedule</b> means the fulfilment of the Related Services by the Contractor in accordance with the terms and conditions set forth in the Contract;</li> <li>(e) <b>Start Date</b> is the date defined in the PCC and it is the last date when the Contractor shall commence execution of the goods/works/services under the Contract.</li> <li>(f) <b>Intended Completion Date</b> is the date calculated from the Commencement Date as specified in the PCC, on which it is intended that the Contractor shall complete the Works and Physical services as specified in the Contract and may be revised only by the Project Manager by issuing an extension of time or an acceleration order.</li> <li>(g) <b>Effective Date</b> means the date of fulfilment of all conditions of the Contract Agreement, from which the Time for Completion shall be counted.</li> <li>(h) <b>Completion Certificate</b> means the Certificate issued by the Project Manager as evidence that the Contractor has executed the services in all respects as per design, drawing, specifications and Conditions of Contract.</li> <li>(i) <b>Time for Completion</b> means the time within which Completion of the Facilities as a whole (or of a part of the Facilities where a separate Time for Completion of such part has been prescribed) is to be attained, in accordance with the relevant provisions of the Contract.</li> </ul> |
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|  |  | <ul style="list-style-type: none"> <li>(j) <b>Variation</b> means any change to the plant and services directly procured from the original Contractor to cover increases or decreases in quantities, including the introduction of new work items that are either due to change of plans, design or alignment to suit actual field conditions, within the general scope and physical boundaries of the contract.</li> <li>(k) <b>Schedules</b> means the document(s) entitled schedules, completed by the Contractor and submitted with the Tender Submission Letter, as included in the Contract. Such document may include the data, lists and schedules of rates and/or prices.</li> <li>(l) <b>Contract Agreement</b> means the Agreement entered into between the Procuring Entity and the Contractor, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein;</li> <li>(m) <b>Contract Documents</b> means the documents listed in GCC Clause 7.1, including any amendments thereto.</li> <li>(n) <b>Contract Price</b> means the price stated in the Notification of Award and thereafter as adjusted in accordance with the provisions of the Contract and further clearly determined in the <b>PCC</b>;</li> <li>(o) <b>Operational Acceptance</b> means the acceptance by the Procuring Entity of the Facilities (or any part of the Facilities where the Contract provides for acceptance of the Facilities in parts), which certifies the Contractor's fulfillment of the Contract in respect of Functional Guarantees of the Facilities (or the relevant part thereof) in accordance with the provisions of contract</li> <li>(p) <b>Site Investigation Reports</b> are those that were included in the Tender Document and are factual and interpretative reports about the surface and subsurface conditions at the Site.</li> <li>(q) <b>Pre-Commissioning</b> means the testing, checking and other requirements specified in the Procuring Entity's Requirements that are to be carried out by the Contractor in preparation for Commissioning;</li> <li>(r) <b>Commissioning</b> means operation of the Facilities or any part thereof by the Contractor following Completion, which operation is to be carried out by the Contractor for the purpose of carrying out Guarantee Test(s).</li> <li>(s) <b>Guarantee Test(s)</b> means the test(s) specified in the Procuring Entity's Requirements to be carried out to ascertain whether the Facilities or a specified part thereof is able to attain the Functional</li> </ul> |
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|  |  | <p>Guarantees specified in the Appendix to the Contract Agreement titled Functional Guarantees, in accordance with the provisions of GCC Sub-Clause 43.2 (Guarantee Test) hereof.</p> <p>(t) <b>Installation Services</b> means all those services ancillary to the supply of the Plant for the Facilities, to be provided by the Contractor under the Contract, such as transportation and provision of marine or other similar insurance, inspection, expediting, site preparation works (including the provision and use of Contractor’s Equipment and the supply of all construction materials required), installation, testing, pre-commissioning, commissioning, operations, maintenance, the provision of operations and maintenance manuals, training, etc. as the case may require.</p> <p>(u) <b>Cost</b> means all expenditures reasonably incurred or to be incurred by the Contractor, whether on or off the point of delivery, including overhead, taxes, duties, fees and such other similar levies including corresponding incidental charges and premiums for banking and insurances, as applicable;</p> <p>(v) <b>Day</b> means calendar day unless otherwise specified as working days.</p> <p>(w) <b>Dayworks</b> means work carried out following the instructions of the Procuring Entity or the authorised Project Manager and is paid for on the basis of time spent by the Contractor’s workers and equipment at the rates specified in the Schedules, in addition to payments for associated Materials and Plant.</p> <p>(x) <b>Defect</b> is any part of the Works not completed in accordance with the Contract ;</p> <p>(y) <b>Defect Liability Period</b> means the period of validity of the warranties given by the Contractor commencing at Completion of the Facilities or a part thereof, during which the Contractor is responsible for defects with respect to the Facilities (or the relevant part thereof) as provided in contract document.</p> <p>(z) <b>Defects Correction Certificate</b> is the certificate issued by the Project Manager upon correction of defects by the Contractor</p> <p>(aa) <b>Force Majeure</b> means an event or situation beyond the control of the Contractor that is not foreseeable, is unavoidable, and its origins not due to negligence or lack of care on the part of the Contractor; such events may include, but not be limited to, acts of the Government in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight</p> |
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|  |  | <p>embargoes or more as included in GCC Clause 56;</p> <p>(bb) <b>GCC</b> means the General Conditions of Contract.</p> <p>(cc) <b>Government</b> means the Government of the People’s Republic of Bangladesh.</p> <p>(dd) <b>Goods</b> means raw materials, products and equipment and objects in solid, liquid or gaseous form, electricity, and related Services if the value of such Services does not exceed that of the Goods themselves. It also means mean the Contractor’s Plant, Equipment, Materials or any of them as appropriate;</p> <p>(ee) <b>Works</b> means all works associated with the construction, reconstruction, site preparation, demolition, repair, maintenance or renovation of railways, roads, highways, or a building, an infrastructure or structure or an installation or any construction work relating to excavation, installation of equipment and materials, decoration, as well as physical services ancillary to works as detailed in the PCC, if the value of those services does not exceed that of the Works themselves.</p> <p>(ff) <b>Plant</b> means permanent plant, equipment, machinery, apparatus, materials, articles, ancillary buildings/structure and things of all kinds to be provided and incorporated in the Facilities by the Contractor under the Contract (including the spare parts to be supplied by the Contractor), but does not include Contractor’s Equipment;</p> <p>(gg) <b>Equipment</b> means all facilities, equipment, machinery, tools, apparatus, appliances or things of every kind required in or for installation, completion and maintenance of Facilities that are to be provided by the Contractor; but does not include Plant, or other things intended to form or forming part of the Facilities.</p> <p>(hh) <b>Facilities</b> means the Plant to be supplied and installed, as well as all the Installation Services to be carried out by the Contractor under the Contract. It also includes any ancillary building or infra structure that needs to be constructed/built/erected to support the plant.</p> <p>(ii) <b>Specification</b> means the Specification of the goods/works/related services included in the Contract and any modifications or additions to the specifications made or approved by the Project Manager in accordance with the Contract.</p> <p>(jj) <b>Materials</b> means things of all kinds other than Plant intended to form or forming part of the Permanent Works, including the supply-only materials, if any, to be supplied by the Contractor under the Contract</p> |
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|  |  | <p>(kk) <b>"Head of the Procuring Entity"</b> means the Secretary of a Ministry or a Division, the Head of a Government Department or Directorate; or the Chief Executive, or as applicable, Divisional Commissioner, Deputy Commissioner, District Judge; or by whatever designation called, of a local Government agency, an autonomous or semi-autonomous body or a corporation, or a corporate body established under the Companies Act;</p> <p>(ll) <b>Procuring Entity/Employer/Purchaser</b> means an Entity having administrative and financial powers to undertake Procurement of Goods, Works or Services using public funds, as specified in the <b>PCC</b>;</p> <p>(mm) <b>Project Manager</b> is the person named in the PCC or any other competent person appointed by the Procuring Entity and notified to the Contractor who is responsible for supervising the execution and completion of the plant and services and administering the Contract</p> <p>(nn) <b>PCC</b> means the Particular Conditions of Contract;</p> <p>(oo) <b>Approving Authority</b> means the authority which, in accordance with the Delegation of Financial powers, approves the award of Contract for the Procurement of Goods, Works and Services ;</p> <p>(pp) <b>Subcontractor</b> means any natural person, private or government entity, or a combination of the above, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Contractor;</p> <p>(qq) <b>Contractor/supplier</b> means the Person under contract with the Procuring Entity for the supply and installation of Plant &amp; Equipment under the Rules and the Act as stated in the PCC.</p> <p>(rr) <b>Contractor's Representative</b> means any person nominated by the Contractor and approved by the Procuring Entity to perform the duties delegated by the Contractor.</p> <p>(ss) <b>Drawings</b> include calculations and other information provided in Section 7 or as approved by the Project Manager for the execution and completion of the Contract ;</p> <p>(tt) <b>Site</b> means the point(s) of delivery named in the <b>PCC</b>.</p> <p>(uu) <b>Writing</b> means communication written by hand or machine duly signed and includes properly authenticated messages by facsimile or electronic mail.</p> |
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| <b>2. Interpretation</b> | 2.1 | In interpreting the GCC, singular also means plural, male also means female or neuter, and the other way around. Headings in the GCC shall not be deemed part thereof or be taken into consideration in the interpretation or construction of the Contract. Words have their normal meaning under the language of the Contract unless specifically defined.  |
|                          | 2.2 | Entire Agreement:<br>The Contract constitutes the entire agreement between the Procuring Entity and the Contractor and supersedes all communications, negotiations and agreements (whether written or verbal) of parties with respect thereto made prior to the date of Contract Agreement; except those stated under GCC Sub Clause 7.1(k).   |
|                          | 2.3 | Amendment:<br>No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorised representative of each party thereto.   |
|                          | 2.4 | Non-waiver:<br><br>(a) Subject to GCC Sub Clause 2.4(b), no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.<br><br>(b) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived. |
|                          | 2.5 | Severability:<br>If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.  |
|                          | 2.6 | Sectional completion:<br>If sectional completion is specified in the PCC, references in the GCC to the Works, the Completion Date, and the Intended Completion Date apply to any section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).  |

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| <b>3. Communications &amp; Notices</b> | 3.1 | Communications between Parties (notice, request or consent required or permitted to be given or made by one party to the other) pursuant to the Contract shall be in writing to the addresses specified in the PCC. |
|  | 3.2 | A notice shall be effective when delivered or on the notice's effective date, whichever is later.   |
|  | 3.3 | A Party may change its address for notice hereunder by giving the other Party notice of such change to the address.   |

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| <b>4. Governing Law</b>   | 4.1 | The Contract shall be governed by and interpreted in accordance with the laws of the People's Republic of Bangladesh.   |
| <b>5. Governing Language</b>  | 5.1 | The Contract shall be written in English. All correspondences and documents relating to the Contract may be written in English or <i>Bangla</i> . Supporting documents and printed literature that are part of the Contract may be in another language, provided they are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Contract, such translation shall govern.   |
|   | 5.2 | The Contractor shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.   |
| <b>6. Corrupt, Fraudulent, Collusive, Coercive or Obstructive Practices</b> | 6.1 | The Government, and the Development Partner, if applicable, requires that the Procuring Entity as well as the Tenderers and Contractors (including sub-contractors, agents, personnel, consultants, and service providers) shall observe the highest standard of ethics during implementation of procurement proceedings and the execution of Contracts under public funds.   |
|   | 6.2 | For the purpose of GCC Sub Clause 6.2 the terms set forth below as follows–<br><br>(a) “Corrupt practice” means offering or promising to offer, directly or indirectly, any bribe, employment, valuable item or service, or financial benefit to any officer or employee of the Procuring Entity or of any other public or private authority, with the intent to influence any act, decision, or procedure of the Procuring Entity in the course of the procurement process or contract execution, or the acceptance or solicitation of such by any officer or employee of the Procuring Entity. It shall also include any involvement of the Procuring Entity or any of its employees in corrupt, fraudulent, collusive, coercive, or obstructive practices as mentioned in this Rule; |

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|  |     | <p>(b) “Fraudulent practice” means any act of providing false statements, dishonestly concealing information, or omitting or misrepresenting or distorting facts by any person to influence a decision in the procurement process or contract execution;</p> <p>(c) “Collusive practice” means a scheme or arrangement between two (2) or more Persons, knowingly or unknowingly involving the Procuring Entity or any of its employees, that is designed to arbitrarily reduce the number of Tenders submitted or fix Tender prices at artificial, non-competitive levels, thereby denying the Procuring Entity the benefits of competitive price arising from genuine and open competition;</p> <p>(d) “Coercive practice” means harming or threatening to harm, directly or indirectly, Persons or their property to influence a decision to be taken in a Procurement proceeding or the execution of a Contract, and this will include creating obstructions in the normal submission process used for Tenders</p> <p>(e) “Obstructive practice” means deliberately destroying, falsifying, altering, or concealing evidence related to a procurement-related investigation, or providing false statements to an investigator so as to impede the investigation of allegations of corrupt, fraudulent, collusive, coercive, or obstructive practices; or intimidating, harassing, or threatening an investigator so as to discourage the disclosure of information or prevent the investigator from carrying out their duties, or directly or indirectly obstructing any action undertaken by the Bangladesh Public Procurement Authority (BPPA) in discharging its responsibilities assigned under the Bangladesh Public Procurement Authority Act, 2023.</p> |
|  | 6.3 | Should any corrupt, fraudulent, collusive, coercive or obstructive practice of any kind, in competing for or in executing the Contract, is determined by the Procuring Entity, then the Procuring Entity may, upon giving 14 days’ notice to the Contractor, terminate the Contractor’s employment under the Contract and the provisions   |

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|  |     | of Clause 73 shall apply as if such expulsion had been made under Sub-Clause 73.1 (Termination for Default).  |
|  | 6.4 | <p>If corrupt, fraudulent, collusive, coercive or obstructive practice of any kind, determined by the Procuring Entity or the Development Partner (if applicable) against the Contractor alleged to have carried out such practices, the Procuring Entity and/or the Development Partner shall;</p> <p>(a) exclude the Contractor from further participation in the particular Procurement proceeding; or</p> <p>(b) declare, at its discretion, the Contractor to be ineligible to participate in further Procurement proceedings, either indefinitely or for a specific period of time.</p> |
|  | 6.5 | The Contractor shall be aware of the provisions on corruption, fraudulence, collusion, coercion and of the Public Procurement Act, 2006, the Public Procurement Rules, 2025 and in case of Development Partner financed contract, the Procurement Guidelines of the Development Partner.  |
|  | 6.6 | The Contractor (including its manufacturers, sub-contractors, agents, personnel, consultants and service providers) shall permit the Government and/or the Development Partner to inspect the Contractor's accounts and records and other documents relating to the submission of Tender and contract performance, and to have them audited by auditors appointed by the Government and/or the Development Partner, if so required.   |

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| <b>7. Documents Forming the Contract and Priority of Documents</b> | 7.1  | <p>The following documents forming the Contract shall be in the following order of precedence, namely:</p> <ul style="list-style-type: none"> <li>(a) The signed Contract Agreement;</li> <li>(b) The Notification of Award;</li> <li>(c) The Completed Tender and <b>the Appendix to the Tender;</b></li> <li>(d) Particular Conditions of Contract;</li> <li>(e) General Conditions of Contract;</li> <li>(f) Technical Specifications;</li> <li>(g) Personnel Information;</li> <li>(h) Equipment Information;</li> <li>(i) Drawings;</li> <li>(j) Priced Schedule for Plant and Services <b>(PG5A-3)</b> and Schedule of Requirements and;</li> <li>(k) Other Documents including correspondences listed in the <b>PCC</b> forming part of the Contract.</li> </ul>  |
| <b>8. Assignment</b>   | 8.1  | <p>The Contractor shall not assign his rights or obligations under the Contract, in whole or in part, except with the Procuring Entity's prior written consent.</p>  |
| <b>9. Eligibility</b>  | 9.1  | <p>The Supplier/Contractor and its Subcontractor(s) shall have the nationality of a country other than that specified in the <b>PCC</b>.</p>   |
|  | 9.2  | <p>All Goods and related services to be supplied under the Contract shall have their origin in the countries except any specified in the <b>PCC</b>.</p>   |
| <b>10. Gratuities / Agency fees</b>                                | 10.1 | <p>No fees, gratuities, rebates, gifts, commissions or other payments, other than those shown in the Tender or in the Contract, have been given or received in connection with the procurement process or in the Contract execution.</p>   |
| <b>11. Confidential Details</b>                                    | 11.1 | <p>The Procuring Entity and the Contractor shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Contractor may furnish to its Subcontractor such documents, data, and other information it receives from the Procuring Entity to the extent required for the Subcontractor to perform its work under the Contract, in which event the Contractor shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Contractor under GCC Clause 11.</p> |

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|   | 11.2 | The Procuring Entity shall not use such documents, data, and other information received from the Contractor for any purposes unrelated to the Contract. Similarly, the Contractor shall not use such documents, data, and other information received from the Procuring Entity for any purpose other than the design, construction, or other work and services required for the performance of the Contract.  |
|   | 11.3 | The obligations of a party under GCC Sub Clauses 11.1 and 11.2 above, however, shall not apply to information that: the Procuring Entity or Contractor needs to share with institutions participating in the financing of the Contract; now or hereafter enters the public domain through no fault of that party; can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality. |
|   | 11.4 | The above provisions of GCC Clause 11 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Works or any part thereof.   |
|   | 11.5 | Any document, other than this Contract itself, enumerated in GCC Clause 12.1 shall remain the property of the Procuring Entity and shall be returned (all copies) to the Procuring Entity on completion of the Contractor's performance under this Contract if so required by the Procuring Entity.   |
|   | 11.6 | The provisions of GCC Clause 11 shall survive completion or termination, for whatever reason  |
| <b>12. Trademark, Patent and Intellectual Property Rights</b> | 12.1 | The Procuring Entity should not be liable for any infringement of intellectual property rights arising from use of the goods procured. In case there are third-party claims of such infringement of patent, trademark, or industrial design rights, the Contractor must indemnify and hold the Procuring Entity free and harmless against such claims and shall not be in contravention of Trademark Act, 2009 and Patent and Design Act, 1911.   |
| <b>13. Copyright</b>  | 13.1 | The copyright in all drawings, documents, and other materials containing data and information furnished to the Procuring Entity by the Contractor herein shall remain vested in the Contractor, or, if they are furnished to the Procuring Entity directly or through the Contractor by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.   |
| <b>14. License/ Use of Technical Information</b>              | 14.1 | For the operation and maintenance of the Plant, the Contractor hereby grants a non-exclusive and non-transferable license (without the right to sub-license) to the Procuring Entity under the patents, utility models or other industrial property rights owned by the Contractor or by a third Party from whom the Contractor has received the right to grant licenses thereunder,  |

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|                                    |      | and shall also grant to the Procuring Entity a non-exclusive and non-transferable right (without the right to sub-license) to use the know-how and other technical information disclosed to the Procuring Entity under the Contract. Nothing contained herein shall be construed as transferring ownership of any patent, utility model, trademark, design, copyright, know-how or other intellectual property right from the Contractor or any third Party to the Procuring Entity.   |
| <b>15. Joint Venture (JV)</b>      | 15.1 | <p>If the Contractor is a JV,</p> <ul style="list-style-type: none"> <li>(a) each partner of the JV shall be jointly and severally liable for all liabilities and ethical or legal obligations to the Procuring Entity for performance of the Contract;</li> <li>(b) the JV partners shall nominate the <b>Leading Partner as Representative or Partner-in-charge</b> being entrusted with the Contract administration and management at Site who shall have the authority to conduct all business including the receipt of payments for and on behalf of all partners of the JV;</li> <li>(c) If there is a dispute that results in legal action being taken in court then action will be taken against all partners of the JV, if they are available and, if only one partner is available, then that partner alone shall answer on behalf of all partners and, if the complaint lodged is proven, the penalty shall be applicable on that partner alone as whatever penalty all the partners would have received; provided that if the other partners of the JV subsequently become available before the legal action has been completed, the Procuring Entity shall have the right to take action against those other partners of that JV as well.</li> <li>(d) the composition or constitution and legal status of the JV shall not be altered without the prior approval of the Procuring Entity;</li> <li>(e) alteration of partners, <b>except the Leading partner</b>, shall only be allowed if any of them is found to be incompetent or has any serious difficulties which may impact the overall implementation of the Works, whereby the incoming partner shall require to possess qualifications higher than that of the outgoing partner;</li> <li>(f) The business share of the Leading Partner shall be the highest among all the partners. Other partner(s) shall have at least 25% of business share each.</li> </ul> |
| <b>16. Nominated Subcontractor</b> | 16.1 | Nominated Subcontractor named in the Contract shall be entitled to execute the specific components of the Works stated in the <b>PCC</b> .   |
|                                    | 16.2 | The Contractor shall not be under obligations to employ a Nominated Subcontractor against whom the Contractor raises   |

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|   |      | reasonable objection by notice to the Engineer as soon as practicable, with supporting particulars while there are reasons to believe that the Subcontractor does not have sufficient competence, resources or financial strength, or does not accept to indemnify the Contractor against and from any negligence or misuse of Goods by the nominated Subcontractor, or does not accept to enter into a subcontract which specifies that, for the subcontracted work including design, if any, the Nominated Subcontractor shall undertake to the Contractor such obligations and liabilities as will enable the contractor to discharge his or her liabilities under the Contract.   |
| <b>17. Other Contractors</b>                                  | 17.1 | The Contractor shall cooperate and share the Site with other Contractors, public authorities, utilities, the Engineer and the Procuring Entity between the dates given in the Schedule of other Contractors. The Contractor shall also provide facilities and services for them as described in the Schedule. The Procuring Entity may modify the Schedule of other Contractors, and shall notify the Contractor of any such modification.  |
| <b>18. Possession of the Site</b>                             | 18.1 | The Procuring Entity shall give possession of the Site or part(s) of the Site, to the Contractor on the date(s) stated in the <b>PCC</b> . If possession of a part of the Site is not given by the date stated in the <b>PCC</b> , the Procuring Entity will be deemed to have delayed the start of the relevant activities, and this will be a Compensation Event.   |
| <b>19. Access to the Site</b>                                 | 19.1 | The Contractor shall allow the Engineer and any person authorised by the Engineer access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.   |
| <b>20. Safety, Security and Protection of the Environment</b> | 20.1 | The Contractor shall throughout the execution and completion of the Works and the remedying of any defects therein: <ul style="list-style-type: none"> <li>(a) take all reasonable steps to safeguard the health and safety of all workers working on the Site and other persons entitled to be on it, and to keep the Site in an orderly state;</li> <li>(b) provide and maintain at the Contractor's own cost all lights, guards, fencing, warning signs and watching for the protection of the Works or for the safety on-site; and</li> <li>(c) take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of the Contractors methods of operation.</li> </ul> |
| <b>21. Working Hours</b>                                      | 21.1 | The Contractor shall not perform any work on the Site on the weekly holidays, or during the night or outside the normal working hours, or on any religious or public holiday, without the prior written approval of the Project Manager.  |
| <b>22. Welfare of Laborers</b>                                | 22.1 | The Contractor shall comply with all the relevant labour Laws applicable to the Contractor's personnel relating to their employment, health, safety, welfare, immigration and shall   |

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|                          |      | allow them all their legal rights.   |
|                          | 22.2 | The Contractor, in particular, shall provide proper accommodation to his or her labourers and arrange proper water supply, conservancy and sanitation arrangements at the site for all necessary hygienic requirements and for the prevention of epidemics in accordance with relevant regulations, rules and orders of the government.  |
|                          | 22.3 | The Contractor, further in particular, shall pay reasonable wages to his or her labourers, and pay them in time. In the event of delay in payment the Procuring Entity may effect payments to the labourers and recover the cost from the Contractor.  |
|                          | 22.4 | The Contractor shall appoint an accident prevention officer at the Site, responsible for maintaining safety and protection against accidents. This person shall be qualified for this responsibility, and shall have the authority to issue instructions and take appropriate protective measures to prevent accidents that could result in injury. Throughout the execution of the Works, the Contractor shall provide whatever is required by this person to exercise this responsibility and authority. |
| <b>23. Subcontractor</b> | 23.1 | Subcontracting the whole of the Plant and Service by the Contractor shall not be permissible. The Contractor shall be responsible for the acts or defaults of any Subcontractor, his or her agents or employees, as if they were the acts or defaults of the Contractor.   |
|                          | 23.2 | Any subcontracting arrangements made during contract implementation and not disclosed at the time of the Tendering shall not be allowed.   |
|                          | 23.3 | Subcontracting of any portion of the works shall not relieve the Contractor from any liability or obligations that may arise from its performance.   |
|                          | 23.4 | Contractor shall retain full responsibility for the contract and cannot pass any contractual obligations to the Subcontractor and under no circumstances assignment of the contract to the Subcontractor be allowed.   |
|                          | 23.5 | The Contractor shall not be required to obtain consent from the Project Manager or his representative, for suppliers solely of Materials or to a subcontract for which the Specialist Subcontractor(s) is already named in the Contract.   |
|                          | 23.6 | The prior consent, in writing, of the Engineer shall however be obtained for other proposed Subcontractor(s).  |
|                          | 23.7 | Subcontractors shall comply with the provisions of GCC Clause 6 and 11.  |

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| <b>24. Dayworks</b>                  | 24.1 | If applicable, the Dayworks rates in the Contractor's Tender shall be used for small additional amounts of work only when the Project Manager has given written instructions in advance for additional work to be paid for in that way.   |
|                                      | 24.2 | All works to be paid for as Dayworks shall be recorded by the Contractor on forms approved by the Project Manager. Each completed form shall be certified and signed by the Project Manager within seven (7) days of the works being done.  |
|                                      | 24.3 | The Contractor shall be paid for Dayworks subject to obtaining signed Dayworks forms.   |
| <b>25. Child Labor</b>               | 25.1 | The Contractor shall not employ any child to perform any work that is economically exploitative, or is likely to be hazardous to, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development in compliance with the applicable laws and other relevant treaties ratified by the government.   |
| <b>26. Fossils &amp; antiquities</b> | 26.1 | All fossils, coins, articles of value or antiquity, and structures and other remains or items of geological or archaeological interest found on the Site shall be placed under the care and authority of the Procuring Entity. The Contractor shall take reasonable precautions to prevent Contractor's Personnel or other persons from removing or damaging any of these findings.   |
|                                      | 26.2 | The Contractor shall, upon discovery of any such finding, promptly give notice to the Project Manager, who shall issue instructions for dealing with it. If the Contractor suffers delay and/or incurs cost from complying with the instructions, the Contractor shall give a further notice to the Project Manager and shall be entitled subject to Claims under GCC Clause 81.  |
| <b>B. Subject Matter of Contract</b> |      |   |
| <b>27. Scope of Facilities</b>       | 27.1 | Unless otherwise expressly limited in the Procuring Entity's Requirements, the Contractor's obligations cover the provision of all Plant and the performance of all Installation Services required for the design, and the manufacture (including procurement, quality assurance, construction, installation, associated civil works, Pre Commissioning and delivery) of the Plant, and the installation, completion and commissioning of the Facilities in accordance with the plans, procedures, specifications, drawings, codes and any other documents as specified in the Section, Procuring Entity's Requirements. Such specifications include, but are not limited to, the provision of supervision and engineering services; the supply of labor, materials, equipment, spare parts and accessories; Contractor's Equipment; construction utilities and supplies; temporary materials, structures and facilities; transportation (including, without limitation, unloading and hauling to, from and at the Site); and storage, except for those supplies, works and services that will be provided or performed |

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|  |      | by the Procuring Entity, as set forth in the Appendix to the Contract Agreement titled Scope of Works and Supply by the Procuring Entity   |
|  | 27.2 | The Contractor shall, unless specifically excluded in the Contract, perform all such work and/or supply all such items and materials not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining Completion of the Facilities as if such work and/or items and materials were expressly mentioned in the Contract   |
|  | 27.3 | In addition to the supply of Mandatory Spare Parts included in the Contract, the Contractor agrees to supply spare parts required for the operation and maintenance of the Facilities for the period specified in the PCC and the provisions, if any, specified in the PCC. However, the identity, specifications and quantities of such spare parts and the terms and conditions relating to the supply thereof are to be agreed between the Procuring Entity and the Contractor, and the price of such spare parts shall be that given in <b>Price Schedule No.1 &amp; 2 under form PG5A-3</b> , which shall be added to the Contract Price. The price of such spare parts shall include the purchase price therefor and other costs and expenses (including the Contractor's fees) relating to the supply of spare parts. |
| <b>28. Time for Commencement</b>               | 28.1 | The Contractor shall attain Completion of the Facilities or of a part where a separate time for Completion of such part is specified in the Contract, within the time stated in the PCC or within such extended time to which the Contractor shall be entitled under GCC Clause 70.2 hereof  |
| <b>29. Time for Completion</b>                 | 29.1 | The Contractor shall attain Completion of the Facilities or of a part where a separate time for Completion of such part is specified in the Contract, within the time stated in the PCC or within such extended time to which the Contractor shall be entitled under GCC Clause 70.2 hereof.   |
| <b>30. Procuring Entity's Responsibilities</b> | 30.1 | Whenever the performance of the obligations in this Contract requires that the Contractor obtain permits, approvals and other license from local public authorities, the Procuring Entity may, if so needed by the Contractor, make its best effort to assist the Contractor in complying with such requirements in a timely and expeditious manner. However, the Contractor shall bear the costs of such permits and/or licenses.   |
|  | 30.2 | The Procuring Entity shall be responsible for acquiring and providing legal and physical possession of the Site and access thereto, and for providing possession of and access to all other areas reasonably required for the proper execution of the Contract, including all requisite rights of way, as specified in the Appendix to the Contract Agreement titled Scope of Works and Supply by the Procuring Entity. The Procuring Entity shall give full possession of and accord all rights of access thereto on or before the date(s) specified in that Appendix.  |

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|  | 30.3 | The Procuring Entity shall acquire and pay for all permits, approvals and/or licenses from all local, state or national government authorities or public service undertakings in the country where the Site is located which (a) such authorities or undertakings require the Procuring Entity to obtain in the Procuring Entity's name, (b) are necessary for the execution of the Contract, including those required for the performance by both the Contractor and the Procuring Entity of their respective obligations under the Contract, and (c) are specified in the Appendix (Scope of Works and Supply by the Procuring Entity).   |
|  | 30.4 | If requested by the Contractor, the Procuring Entity shall use its best endeavours to assist the Contractor in obtaining in a timely and expeditious manner all permits, approvals and/or licenses necessary for the execution of the Contract from all local, state or national government authorities or public service undertakings that such authorities or undertakings require the Contractor or Subcontractors or the personnel of the Contractor or Subcontractors, as the case may be, to obtain   |
|  | 30.5 | Unless otherwise specified in the Contract or agreed upon by the Procuring Entity and the Contractor, the Procuring Entity shall provide sufficient, properly qualified operating and maintenance personnel; shall supply and make available all raw materials, utilities, lubricants, chemicals, catalysts, other materials and facilities; and shall perform all work and services of whatsoever nature, including those required by the Contractor to properly carry out Pre Commissioning, Commissioning and Guarantee Tests, all in accordance with the provisions of the Appendix to the Contract Agreement titled Scope of Works and Supply by the Procuring Entity, at or before the time specified in the program furnished by the Contractor under the provisions of contract specified or as otherwise agreed upon by the Procuring Entity and the Contractor. |
|  | 30.6 | The Procuring Entity shall be responsible for the continued operation of the Facilities after Completion, in accordance with GCC Sub-Clause 42.8, and shall be responsible for facilitating the Guarantee Test(s) for the Facilities, in accordance with GCC Sub-Clause 43.2.   |
|  | 30.7 | All costs and expenses involved in the performance of the obligations under this GCC Clause 30 shall be the responsibility of the Procuring Entity, save those to be incurred by the Contractor with respect to the performance of Guarantee Tests, in accordance with GCC Sub-Clause 43.2.   |
|  | 30.8 | In the event that the Procuring Entity shall be in breach of any of his obligations under this Clause, the additional cost incurred by the Contractor in consequence thereof shall be determined by the Project Manager and added to the Contract Price   |
| <b>31. Contractor's Responsibilities</b> | 31.1 | The Contractor shall design, manufacture including associated purchases and/or subcontracting, install and complete the Facilities in accordance with the Contract. When completed, the Facilities should be fit for the purposes for which they are intended as defined in the Contract.   |

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|   | 31.2 | The Contractor confirms that it has entered into this Contract on the basis of a proper examination of the data relating to the Facilities including any data as to boring tests provided by the Procuring Entity, and on the basis of information that the Contractor could have obtained from a visual inspection of the Site if access thereto was available and of other data readily available to it relating to the Facilities as of the date twenty-eight (28) days prior to tender submission. The Contractor acknowledges that any failure to acquaint itself with all such data and information shall not relieve its responsibility for properly estimating the difficulty or cost of successfully performing the Facilities   |
|   | 31.3 | The Contractor shall acquire and pay for all permits, approvals and/or licenses from all local, state or national government authorities or public service undertakings in the country where the Site is located which such authorities or undertakings require the Contractor to obtain in its name and which are necessary for the performance of the Contract, including, without limitation, visas for the Contractor's and Subcontractor's personnel and entry permits for all imported Contractor's Equipment. The Contractor shall acquire all other permits, approvals and/or licenses that are not the responsibility of the Procuring Entity under GCC Sub-Clause 30.3 hereof and that are necessary for the performance of the Contract.   |
| <b>32. Procuring Entity's and Contractor's Risk</b> | 32.1 | The Procuring Entity carries the risks that the Contract states are Procuring Entity's risks and the Contractor carries the risks that the Contract states are Contractor's risks   |
| <b>33. Procuring Entity's Risks</b>                 | 33.1 | <p>From the Start Date until the Defects Correction Certificate has been issued, the following are Procuring Entity's risks:</p> <ul style="list-style-type: none"> <li>(g) the risk of personal injury, death, or loss of or damage to property (excluding the Works, Plant, Materials, and Equipment), which are due to <ul style="list-style-type: none"> <li>i. use or occupation of the Site by the Works or for the purpose of the Works, which is the unavoidable result of the Works or</li> <li>ii. negligence, breach of statutory duty, or interference with any legal right by the Procuring Entity or by any person employed by or Contracted to him except the Contractor.</li> <li>iii. the risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Procuring Entity or in the Procuring Entity's design, or due to war or radioactive contamination directly affecting the country where the Works are to be executed.</li> </ul> </li> </ul> |

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|  | 33.2 | <p>From the Completion Date until the Defects Correction Certificate has been issued, the risk of loss of or damage to the Works, Plant, and Materials is Procuring Entity's risk, except loss or damage due to:</p> <ul style="list-style-type: none"> <li>(a) a Defect which existed on the Completion Date;</li> <li>(b) an event occurring before the Completion Date, which was not itself Procuring Entity's risk; or</li> <li>(c) the activities of the Contractor on the Site after the Completion Date.</li> </ul>   |
| <b>34. Contractor's Risks</b>  | 34.1 | <p>From the Start Date until the Defects Correction Certificate has been issued the risks of personal injury, death, and loss of or damage to property including without limitation, the Works, Plant, Materials, and Equipment, which are not Procuring Entity's risks are Contractor's risks.</p>   |
| <b>C. Execution of the Facilities</b>  |      |   |
| <b>35. Representatives: Project Manager</b>  | 35.1 | <p>If the Project Manager is not named in the Contract, then within fourteen (14) days of the Effective Date, the Procuring Entity shall appoint and notify the Contractor in writing of the name of the Project Manager. The Procuring Entity may from time to time appoint some other person as the Project Manager in place of the person previously so appointed, and shall give a notice of the name of such other person to the Contractor without delay. No such appointment shall be made at such a time or in such a manner as to impede the progress of work on the Facilities. Such appointment shall only take effect upon receipt of such notice by the Contractor. The Project Manager shall represent and act for the Procuring Entity at all times during the performance of the Contract. All notices, instructions, orders, certificates, approvals and all other communications under the Contract shall be given by the Project Manager, except as herein otherwise provided.</p> |
|  | 35.2 | <p>All notices, instructions, information and other communications given by the Contractor to the Procuring Entity under the Contract shall be given to the Project Manager, except as herein otherwise provided.</p>   |
| <b>36. Representatives: Contractor's Representative &amp; Construction Manager</b> | 36.1 | <p>1If the Contractor's Representative is not named in the Contract fourteen (14) days, the Contractor's Representative shall be deemed to have been approved. If the Procuring Entity objects to the appointment within fourteen (14) days giving the reason therefor, then the Contractor shall appoint a replacement within fourteen (14) days of such objection, and the foregoing provisions of this GCC Sub-Clause 39.2.1 shall apply thereto.</p>  |

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|                         | 36.2 | <p>The Contractor's Representative shall represent and act for the Contractor at all times during the performance of the Contract and shall give to the Project Manager all the Contractor's notices, instructions, information and all other communications under the Contract.</p> <p>The Contractor shall not revoke the appointment of the Contractor's Representative without the Procuring Entity's prior written consent, which shall not be unreasonably withheld. If the Procuring Entity consents thereto, the Contractor shall appoint some other person as the Contractor's Representative, pursuant to the procedure set out in GCC Sub-Clause 39.2.1.</p>   |
|                         | 36.3 | <p>The Contractor's Representative may, subject to the approval of the Procuring Entity which shall not be unreasonably withheld, at any time delegate to any person any of the powers, functions and authorities vested in him or her. Any such delegation may be revoked at any time. Any such delegation or revocation shall be subject to a prior notice signed by the Contractor's Representative, and shall specify the powers, functions and authorities thereby delegated or revoked. No such delegation or revocation shall take effect unless and until a copy thereof has been delivered to the Procuring Entity and the Project Manager. Any act or exercise by any person of powers, functions and authorities so delegated to him or her in accordance with this GCC Sub-Clause 39.2.3 shall be deemed to be an act or exercise by the Contractor's Representative.</p> |
|                         | 36.4 | <p>From the commencement of installation of the Facilities at the Site until Completion, the Contractor's Representative shall appoint a suitable person as the Construction Manager. The Construction Manager shall supervise all work done at the Site by the Contractor and shall be present at the Site throughout normal working hours except when on leave, sick or absent for reasons connected with the proper performance of the Contract. Whenever the Construction Manager is absent from the Site, a suitable person shall be appointed to act as the Construction Manager's deputy.</p>  |
|                         | 36.5 | <p>The Procuring Entity may by notice to the Contractor object to a under GCC Sub-Clause 40.4. The Procuring Entity shall provide evidence of the same, whereupon the Contractor shall remove such person from the Facilities.</p>  |
|                         | 36.6 | <p>If any representative or person employed by the Contractor is removed in accordance with GCC Sub-Clause 36.5, the Contractor shall, where required, promptly appoint a replacement.</p>  |
| <b>37. Work Program</b> | 37.1 | <p><b><u>Contractor's Organization</u></b></p> <p>The Contractor shall supply to the Procuring Entity and the Project Manager a chart showing the proposed organization to be established by the Contractor for carrying out work on the Facilities within twenty-one (21) days of the Effective Date.</p>  |

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|  |      | The chart shall include the identities of the key personnel and the curricula vitae of such key personnel to be employed shall be supplied together with the chart. The Contractor shall promptly inform the Procuring Entity and the Project Manager in writing of any revision or alteration of such an organization chart.   |
|  | 37.2 | <p><b><u>Program of Performance</u></b></p> <p>Within twenty-eight (28) days after the Effective Date, the Contractor shall submit to the Project Manager a detailed program of performance of the Contract, made in a form acceptable to the Project Manager and showing the sequence in which it proposes to design, manufacture, transport, assemble, install and Pre Commission the Facilities, as well as the date by which the Contractor reasonably requires that the Procuring Entity shall have fulfilled its obligations under the Contract so as to enable the Contractor to execute the Contract in accordance with the program and to achieve Completion, Commissioning and Acceptance of the Facilities in accordance with the Contract. The program so submitted by the Contractor shall accord with the Time Schedule included in the Appendix to the Contract Agreement titled Time Schedule, and any other dates and periods specified in the Contract. The Contractor shall update and revise the program as and when appropriate or when required by the Project Manager, but without modification in the Times for Completion specified in the PCC pursuant to Sub-Clause 29.1 and any extension granted in accordance with GCC Clause 70.2, and shall submit all such revisions to the Project Manager.</p> |
|  | 37.3 | <p><b><u>Progress Report</u></b></p> <p>The Contractor shall monitor progress of all the activities specified in the program referred to in GCC Sub-Clause 31.2 above, and supply a progress report to the Project Manager every month.</p> <p>The progress report shall be in a form acceptable to the Project Manager and shall indicate: (a) percentage completion achieved compared with the planned percentage completion for each activity; and (b) where any activity is behind the program, giving comments and likely consequences and stating the corrective action being taken.</p>  |
|  | 37.4 | <p><b><u>Progress of Performance</u></b></p> <p>If at any time the Contractor's actual progress falls behind the program referred to in GCC Sub-Clause 37.2, or it becomes apparent that it will so fall behind, the Contractor shall, at the request of the Procuring Entity or the Project Manager, prepare and submit to the Project Manager a revised program, taking into account the prevailing circumstances, and shall notify the Project Manager of the steps being taken to expedite progress so as to attain Completion of the Facilities within the Time for Completion under GCC Sub-Clause 29.1, any extension thereof entitled under GCC Sub-Clause 70.1, or</p>   |

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|                                   |      | any extended period as may otherwise be agreed upon between the Procuring Entity and the Contractor.  |
|                                   | 37.5 | <p><b><u>Procedures</u></b></p> <p>The Contract shall be executed in accordance with the Contract Documents including the procedures given in the Forms and Procedures of the Procuring Entity's Requirements. The Contractor may execute the Contract in accordance with its own standard project execution plans and procedures to the extent that they do not conflict with the provisions contained in the Contract.</p>  |
| <b>38. Design and Engineering</b> | 38.1 | <p><b><u>Specifications and Drawings</u></b></p> <p>(a) The Contractor shall execute the basic and detailed design and the engineering work in compliance with the provisions of the Contract, or where not so specified, in accordance with good engineering practice. The Contractor shall be responsible for any discrepancies, errors or omissions in the specifications, drawings and other technical documents that it has prepared, whether such specifications, drawings and other documents have been approved by the Project Manager or not, provided that such discrepancies, errors or omissions are not because of inaccurate information furnished in writing to the Contractor by or on behalf of the Procuring Entity.</p> <p>(b) The Contractor shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designated by or on behalf of the Procuring Entity, by giving a notice of such disclaimer to the Project Manager.</p> |
|                                   | 38.2 | <p><b><u>Codes and Standards</u></b></p> <p>Wherever references are made in the Contract to codes and standards in accordance with which the Contract shall be executed, the edition or the revised version of such codes and standards current at the date twenty-eight (28) days prior to date of tender submission shall apply unless otherwise specified. During Contract execution, any changes in such codes and standards shall be applied subject to approval by the Procuring Entity and shall be treated in accordance with GCC Clause 69.</p>  |

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|  | 38.3 | <p><b><u>Approval/Review of Technical Documents by Project Manager</u></b></p> <p>38.3.1 The Contractor shall prepare or cause its Subcontractors to prepare, and furnish to the Project Manager the documents listed in the Appendix to the Contract Agreement titled List of Documents for Approval or Review, for its approval or review as specified and in accordance with the requirements of GCC Sub-Clause 37.2 (Program of Performance).</p> <p>Any part of the Facilities covered by or related to the documents to be approved by the Project Manager shall be executed only after the Project Manager’s approval thereof.</p> <p>GCC Sub-Clauses 38.3.2 through 38.3.6 shall apply to those documents requiring the Project Manager’s approval, but not to those furnished to the Project Manager for its review only</p> <p>38.3.2 Within fourteen (14) days after receipt by the Project Manager of any document requiring the Project Manager’s approval in accordance with GCC Sub-Clause 38.3.1, the Project Manager shall either return one copy thereof to the Contractor with its approval endorsed thereon or shall notify the Contractor in writing of its disapproval thereof and the reasons therefor and the modifications that the Project Manager proposes. If the Project Manager fails to take such action within the said fourteen (14) days, then the said document shall be deemed to have been approved by the Project Manager.</p> |
|  |      | <p>38.3.3. The Project Manager shall not disapprove any document, except on the grounds that the document does not comply with the Contract or that it is contrary to good engineering practice.</p> <p>38.3.4 If the Project Manager disapproves the document, the Contractor shall modify the document and resubmit it for the Project Manager’s approval in accordance with GCC Sub-Clause 38.3.2. If the Project Manager approves the document subject to modification(s), the Contractor shall make the required modification(s), whereupon the document shall be deemed to have been approved.</p> <p>38.3.5 The Project Manager’s approval, with or without modification of the document furnished by the Contractor, shall not relieve the Contractor of any responsibility or liability imposed upon it by any provisions of the Contract except to the extent that any subsequent failure results from modifications required by the Project Manager.</p> <p>38.3.6 The Contractor shall not depart from any approved document unless the Contractor has first submitted to</p>  |

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|                        |      | the Project Manager an amended document and obtained the Project Manager’s approval thereof, pursuant to the provisions of this GCC Sub-Clause 38.3. If the Project Manager requests any change in any already approved document and/or in any document based thereon, the provisions of GCC Clause 70 shall apply to such request.   |
| <b>39. Procurement</b> | 39.1 | <b><u>Plant</u></b><br>Subject to GCC Sub-Clause 65.2, the Contractor shall procure and transport all Plant in an expeditious and orderly manner to the Site.   |
|                        | 39.2 | <b><u>Procuring Entity-Supplied Plant</u></b><br>If the Appendix to the Contract Agreement titled Scope of Works and Supply by the Procuring Entity, provides that the Procuring Entity shall furnish any specific items to the Contractor, the following provisions shall apply:<br><br><ul style="list-style-type: none"> <li>i. The Procuring Entity shall, at its own risk and expense, transport each item to the place on or near the Site as agreed upon by the Parties and make such item available to the Contractor at the time specified in the program furnished by the Contractor, pursuant to GCC Sub-Clause 37.2, unless otherwise mutually agreed.</li> <li>ii. Upon receipt of such item, the Contractor shall inspect the same visually and notify the Project Manager of any detected shortage, defect or default. The Procuring Entity shall immediately remedy any shortage, defect or default, or the Contractor shall, if practicable and possible, at the request of the Procuring Entity, remedy such shortage, defect or default at the Procuring Entity’s cost and expense. After inspection, such item shall fall under the care, custody and control of the Contractor. The provision of this GCC Sub-Clause 39.2.ii. shall apply to any item supplied to remedy any such shortage or default or to substitute for any defective item, or shall apply to defective items that have been repaired.</li> <li>iii. The foregoing responsibilities of the Contractor and its obligations of care, custody and control shall not relieve the Procuring Entity of liability for any undetected shortage, defect or default, nor place the Contractor under any liability for any such shortage, defect or default whether under GCC Clause 45 or under any other provision of Contract.</li> </ul> |
|                        | 39.3 | <b><u>Transportation</u></b><br><br><ul style="list-style-type: none"> <li>i. The Contractor shall at its own risk and expense transport all the materials and the Contractor’s Equipment to the Site by the mode of transport that the Contractor judges most suitable under all the circumstances.</li> </ul>   |

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|                  |      | <p>ii. Unless otherwise provided in the Contract, the Contractor shall be entitled to select any safe mode of transport operated by any person to carry the materials and the Contractor's Equipment.</p> <p>iii. Upon dispatch of each shipment of materials and the Contractor's Equipment, the Contractor shall notify the Procuring Entity by telex, cable, facsimile or electronic means, of the description of the materials and of the Contractor's Equipment, the point and means of dispatch, and the estimated time and point of arrival in the country where the Site is located, if applicable, and at the Site. The Contractor shall furnish the Procuring Entity with relevant shipping documents to be agreed upon between the Parties.</p> <p>iv. The Contractor shall be responsible for obtaining, if necessary, approvals from the authorities for transportation of the materials and the Contractor's Equipment to the Site. The Procuring Entity shall use its best endeavors in a timely and expeditious manner to assist the Contractor in obtaining such approvals, if requested by the Contractor. The Contractor shall indemnify and hold harmless the Procuring Entity from and against any claim for damage to roads, bridges or any other traffic facilities that may be caused by the transport of the materials and the Contractor's Equipment to the Site.</p> |
|                  | 39.4 | <p><b><u>Customs Clearance</u></b></p> <p>The Contractor shall, at its own expense, handle all imported materials and Contractor's Equipment at the point(s) of import and shall handle any formalities for customs clearance, subject to the Procuring Entity's obligations under GCC Sub-Clause 65.2, provided that if applicable laws or regulations require any application or act to be made by or in the name of the Procuring Entity, the Procuring Entity shall take all necessary steps to comply with such laws or regulations. In the event of delays in customs clearance that are not the fault of the Contractor, the Contractor shall be entitled to an extension in the Time for Completion, pursuant to GCC Clause 70.</p>   |
| 40. Installation | 40.1 | <p><b><u>Setting Out/Supervision</u></b></p> <p>i. <b>Bench Mark:</b> The Contractor shall be responsible for the true and proper setting-out of the Facilities in relation to bench marks, reference marks and lines provided to it in writing by or on behalf of the Procuring Entity.</p> <p>If, at any time during the progress of installation of the Facilities, any error shall appear in the position, level or alignment of the Facilities, the Contractor shall forthwith notify the Project Manager of such error and,</p>   |

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|  |             | <p>at its own expense, immediately rectify such error to the reasonable satisfaction of the Project Manager. If such error is based on incorrect data provided in writing by or on behalf of the Procuring Entity, the expense of rectifying the same shall be borne by the Procuring Entity.</p> <p>ii. <b>Contractor’s Supervision:</b> The Contractor shall give or provide all necessary superintendence during the installation of the Facilities, and the Construction Manager or its deputy shall be constantly on the Site to provide full-time superintendence of the installation. The Contractor shall provide and employ only technical personnel who are skilled and experienced in their respective callings and supervisory staff who are competent to adequately supervise the work at hand.</p>   |
|  | <p>40.2</p> | <p><b>Labor:</b></p> <p>40.2.1 Engagement of Staff and Labor</p> <p>(a) Except as otherwise stated in the Specification, the Contractor shall make arrangements for the engagement of all staff and labor, local or otherwise, and for their payment, housing, feeding and transport.</p> <p>(b) The Contractor shall provide and employ on the Site in the installation of the Facilities such skilled, semi-skilled and unskilled labor as is necessary for the proper and timely execution of the Contract. The Contractor is encouraged to use local labor that has the necessary skills.</p> <p>(c) The Contractor shall be responsible for obtaining all necessary permit(s) and/or visa(s) from the appropriate authorities for the entry of all labor and personnel to be employed on the Site into the country where the Site is located. The Procuring Entity will, if requested by the Contractor, use his best endeavors in a timely and expeditious manner to assist the Contractor in obtaining any local, state, national or government permission required for bringing in the Contractor’s personnel.</p> <p>(d) The Contractor shall at its own expense provide the means of repatriation to all of its and its Subcontractor’s personnel employed on the Contract at the Site to the place where they were recruited or to their domicile. It shall also provide suitable temporary maintenance of all such persons from the cessation of their employment on the Contract to the date programmed for their departure. In the event that the Contractor</p> |

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|  |      | <p>defaults in providing such means of transportation and temporary maintenance, the Procuring Entity may provide the same to such personnel and recover the cost of doing so from the Contractor.</p> <p>40.2.2 Persons in the Service of Procuring Entity</p> <p>The Contractor shall not recruit, or attempt to recruit, staff and labor from amongst the Procuring Entity's Personnel.</p> <p>40.2.3 Facilities for Staff and Labor</p> <p>Except as otherwise stated in the Specification, the Contractor shall provide and maintain all necessary accommodation and welfare facilities for the Contractor's Personnel. The Contractor shall also provide facilities for the Procuring Entity's Personnel as stated in the Specification.</p> <p>The Contractor shall not permit any of the Contractor's Personnel to maintain any temporary or permanent living quarters within the structures forming part of the Permanent Works.</p>   |
|  | 40.3 | <p><b><u>Contractor's Equipment</u></b></p> <p>40.3.1 All Contractor's Equipment brought by the Contractor onto the Site shall be deemed to be intended to be used exclusively for the execution of the Contract. The Contractor shall not remove the same from the Site without the Project Manager's consent that such Contractor's Equipment is no longer required for the execution of the Contract.</p> <p>40.3.2 Unless otherwise specified in the Contract, upon completion of the Facilities, the Contractor shall remove from the Site all Equipment brought by the Contractor onto the Site and any surplus materials remaining thereon.</p> <p>40.3.3 The Procuring Entity will, if requested, use its best endeavors to assist the Contractor in obtaining any local, state or national government permission required by the Contractor for the export of the Contractor's Equipment imported by the Contractor for use in the execution of the Contract that is no longer required for the execution of the Contract.</p> |
|  | 40.4 | <p><b><u>Site Regulations and Safety</u></b></p> <p>The Procuring Entity and the Contractor shall establish Site regulations setting out the rules to be observed in the execution of the Contract at the Site and shall comply therewith. The Contractor shall prepare and submit to the</p>   |

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|  |      | <p>Procuring Entity, with a copy to the Project Manager, proposed Site regulations for the Procuring Entity’s approval, which approval shall not be unreasonably withheld.</p> <p>Such Site regulations shall include, but shall not be limited to, rules in respect of security, safety of the Facilities, gate control, sanitation, medical care, and fire prevention. reasonable costs incurred by the Procuring Entity in connection therewith shall be paid by the Contractor to the Procuring Entity. Otherwise, the cost of such remedial work shall be borne by the Procuring Entity.</p>   |
|  | 40.5 | <p><b><u>Site Clearance</u></b></p> <p>Site Clearance in Course of Performance: In the course of carrying out the Contract, the Contractor shall keep the Site reasonably free from all unnecessary obstruction, store or remove any surplus materials, clear away any wreckage, rubbish or temporary works from the Site, and remove any Contractor’s Equipment no longer required for execution of the Contract.</p>  |
|  | 40.6 | <p><b><u>Opportunities for Other Contractors</u></b></p> <p>40.6.1 The Contractor shall, upon written request from the Procuring Entity or the Project Manager, give all reasonable opportunities for carrying out the work to any other contractors employed by the Procuring Entity on or near the Site.</p> <p>40.6.2 If the Contractor, upon written request from the Procuring Entity or the Project Manager, makes available to other contractors any roads or ways the maintenance for which the Contractor is responsible, permits the use by such other contractors of the Contractor’s Equipment, or provides any other service of whatsoever nature for such other contractors, the Procuring Entity shall fully compensate t41. he Contractor for any loss or damage caused or occasioned by such other contractors in respect of any such use or service, and shall pay to the Contractor reasonable remuneration for the use of such equipment or the provision of such services.</p> |
|  | 40.7 | <p><b><u>Emergency Work</u></b></p> <p>40.7.1 If, by reason of an emergency arising in connection with and during the execution of the Contract, any protective or remedial work is necessary as a matter of urgency to prevent damage to the Facilities, the Contractor shall immediately carry out such work.</p> <p>If the Contractor is unable or unwilling to do such work immediately, the Procuring Entity may do or cause such work to be done as the Procuring Entity may determine is necessary in order to prevent damage to the Facilities.</p>   |

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|   |   | <p>In such event the Procuring Entity shall, as soon as practicable after the occurrence of any such emergency, notify the Contractor in writing of such emergency, the work done and the reasons therefor. If the work done or caused to be done by the Procuring Entity is work that the Contractor was liable to do at its own expense under the Contract.</p> <p>40.7.2 Clearance of Site after Completion: After Completion of all parts of the Facilities, the Contractor shall clear away and remove all wreckage, rubbish and debris of any kind from the Site, and shall leave the Site and Facilities in a clean and safe condition.</p> |
| <p><b>41. Test &amp; Inspection</b></p> | <p>40.8</p>   | <p><b><u>Watching and Lighting</u></b></p> <p>The Contractor shall provide and maintain at its own expense all lighting, fencing, and watching when and where necessary for the proper execution and the protection of the Facilities, or for the safety of the owners and occupiers of adjacent property and for the safety of the public.</p>  |
|   | <p>41.1</p>   | <p>The Contractor shall at its own expense carry out at the place of manufacture and/or on the Site all such tests and/or inspections of the Plant and any part of the Facilities as are specified in the Contract.</p>  |
|   | <p>41.2</p>   | <p>The Procuring Entity and the Project Manager or their designated representatives shall be entitled to attend the aforesaid test and/or inspection, provided that the Procuring Entity shall bear all costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.</p>  |
|   | <p>41.3</p>   | <p>Whenever the Contractor is ready to carry out any such test and/or inspection, the Contractor shall give a reasonable advance notice of such test and/or inspection and of the place and time thereof to the Project Manager. The Contractor shall obtain from any relevant third Party or manufacturer any necessary permission or consent to enable the Procuring Entity and the Project Manager or their designated representatives to attend the test and/or inspection.</p>  |
| <p>41.4</p>                             | <p>The Contractor shall provide the Project Manager with a certified report of the results of any such test and/or inspection. If the Procuring Entity or Project Manager or their designated representatives fails to attend the test and/or inspection, or if it is agreed between the Parties that such persons shall not do so, then the Contractor may proceed with the test and/or inspection in the absence of such persons, and may provide the Project Manager with a certified report of the results thereof.</p> |  |

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|  | 41.5  | The Project Manager may require the Contractor to carry out any test and/or inspection not required by the Contract, provided that the Contractor's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impede the progress of work on the Facilities and/or the Contractor's performance of its other obligations under the Contract, due allowance will be made in respect of the Time for Completion and the other obligations so affected. |
|  | 41.6  | If any Plant or any part of the Facilities fails to pass any test and/or inspection, the Contractor shall either rectify or replace such Plant or part of the Facilities and shall repeat the test and/or inspection upon giving a notice under GCC Sub-Clause 41.3.   |
|  | 41.7  | If any dispute or difference of opinion shall arise between the Parties in connection with or arising out of the test and/or inspection of the Plant or part of the Facilities that cannot be settled between the Parties within a reasonable period of time, it may be referred to an 82.3.   |
|  | 41.8  | The Contractor shall afford the Procuring Entity and the Project Manager, at the Procuring Entity's expense, access at any reasonable time to any place where the Plant are being manufactured or the Facilities are being installed, in order to inspect the progress and the manner of manufacture or installation, provided that the Project Manager shall give the Contractor a reasonable prior notice.   |
|  | 41.9  | The Contractor agrees that neither the execution of a test and/or inspection of Plant or any part of the Facilities, nor the attendance by the Procuring Entity or the Project Manager, nor the issue of any test certificate pursuant to GCC Sub-Clause 41.4, shall release the Contractor from any other responsibilities under the Contract.  |
|  | 41.10 | No part of the Facilities or foundations shall be covered up on the Site without the Contractor carrying out any test and/or inspection required under the Contract. The Contractor shall give a reasonable notice to the Project Manager whenever any such parts of the Facilities or foundations are ready or about to be ready for test and/or inspection; such test and/or inspection and notice thereof shall be subject to the requirements of the Contract.   |
|  | 41.11 | The Contractor shall uncover any part of the Facilities or foundations, or shall make openings in or through the same as the Project Manager may from time to time require at the Site, and shall reinstate and make good such part or parts.  |

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|   | 41.12 | If any parts of the Facilities or foundations have been covered up at the Site after compliance with the requirement of GCC Sub-Clause 41.10 and are found to be executed in accordance with the Contract, the expenses of uncovering, making openings in or through, reinstating, and making good the same shall be borne by the Procuring Entity, and the Time for Completion shall be reasonably adjusted to the extent that the Contractor has thereby been delayed or impeded in the performance of any of its obligations under the Contract.   |
| <b>42. Completion of the Facilities</b> | 42.1  | As soon as the Facilities or any part thereof has, in the opinion of the Contractor, been completed operationally and structurally and put in a tight and clean condition as specified in the Procuring Entity's Requirements, excluding minor items not materially affecting the operation or safety of the Facilities, the Contractor shall so notify the Procuring Entity in writing.  |
|   | 42.2  | <p>Within seven (7) days after receipt of the notice from the Contractor under GCC Sub-Clause 42.1, the Procuring Entity shall supply the operating and maintenance personnel specified in the Appendix to the Contract Agreement titled Scope of Works and Supply by the Procuring Entity for Pre-Commissioning of the Facilities or any part thereof.</p> <p>Pursuant to the Appendix to the Contract Agreement titled Scope of Works and Supply by the Procuring Entity, the Procuring Entity shall also provide, within the said seven (7) day period, the raw materials, utilities, lubricants, chemicals, catalysts, facilities, services and other matters required for Pre-Commissioning of the Facilities or any part thereof.</p> |
|   | 42.3  | As soon as reasonably practicable after the operating and maintenance personnel have been supplied by the Procuring Entity and the raw materials, utilities, lubricants, chemicals, catalysts, facilities, services and other matters have been provided by the Procuring Entity in accordance with GCC Sub-Clause 42.2, the Contractor shall commence Pre-commissioning of the Facilities or the relevant part thereof in preparation for Commissioning, subject to GCC Sub-Clause 43.5.   |
|   | 42.4  | <p>The Project Manager shall, within fourteen (14) days after receipt of the Contractor's notice under GCC Sub-Clause 39.4, either issue a Completion Certificate in the form specified in the Procuring Entity's Requirements (Forms and Procedures), stating that the Facilities or that part thereof have reached Completion as of the date of the Contractor's notice, or notify the Contractor in writing of any defects and/or deficiencies.</p> <p>If the Project Manager notifies the Contractor of any defects and/or deficiencies, the Contractor shall then correct such defects and/or deficiencies, and shall repeat the procedure.</p>  |
|   | 42.5  | If the Project Manager is satisfied that the Facilities or that part thereof have reached Completion, the Project Manager shall, within seven (7) days after receipt of the Contractor's  |

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|   |      | repeated notice, issue a Completion Certificate stating that the Facilities or that part thereof have reached Completion as of the date of the Contractor's repeated notice.  |
|   | 42.6 | If the Project Manager is not so satisfied, then it shall notify the Contractor in writing of any defects and/or deficiencies within seven (7) days after receipt of the Contractor's repeated notice, and the above procedure shall be repeated.   |
|   | 42.7 | If the Project Manager fails to issue the Completion Certificate and fails to inform the Contractor of any defects and/or deficiencies within fourteen (14) days after receipt of the Contractor's notice or within seven (7) days after receipt of the Contractor's repeated notice under GCC Sub-Clause 42.4, or if the Procuring Entity makes use of the Facilities or part thereof, then the Facilities or that part thereof shall be deemed to have reached Completion as of the date of the Contractor's notice or repeated notice, or as of the Procuring Entity's use of the Facilities, as the case may be.  |
|   | 42.8 | As soon as possible after Completion, the Contractor shall complete all outstanding minor items so that the Facilities are fully in accordance with the requirements of the Contract, failing which the Procuring Entity will undertake such completion and deduct the costs thereof from any monies owing to the Contractor.   |
|   | 42.9 | Upon Completion, the Procuring Entity shall be responsible for the care and custody of the Facilities or the relevant part thereof, together with the risk of loss or damage thereto, and shall thereafter take over the Facilities or the relevant part thereof.   |
| <b>43. Commissioning and Operational Acceptance</b> | 43.1 | <p><b><u>Commissioning</u></b></p> <p>43.1.1 Commissioning of the Facilities or any part thereof shall be commenced by the Contractor immediately after issue of the Completion Certificate by the Project Manager, pursuant to GCC Sub-Clause 42.4, or immediately after the date of the deemed Completion, under GCC Sub-Clause 42.5.</p> <p>43.1.2 The Procuring Entity shall supply the operating and maintenance personnel and all raw materials, utilities, lubricants, chemicals, catalysts, facilities, services and other matters required for Commissioning.</p> <p>43.1.3 In accordance with the requirements of the Contract, the Contractor's and Project Manager's advisory personnel shall attend the Commissioning, including the Guarantee Test, and shall advise and assist the Procuring Entity.</p> |
|   | 43.2 | <p><b><u>Guarantee Test</u></b></p> <p>43.2.1 Subject to GCC Sub-Clause 43.5, the Guarantee Test and repeats thereof shall be conducted by the Contractor during Commissioning of the Facilities or</p>   |

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|  |             | <p>the relevant part thereof to ascertain whether the Facilities or the relevant part can attain the Functional Guarantees specified in the Appendix to the Contract Agreement titled Functional Guarantees. The Procuring Entity shall promptly provide the Contractor with such information as the Contractor may reasonably require in relation to the conduct and results of the Guarantee Test and any repeats thereof.</p> <p>43.2.2 If for reasons not attributable to the Contractor, the Guarantee Test of the Facilities or the relevant part thereof cannot be successfully completed within the period from the date of Completion <b>specified in the PCC</b> or any other period agreed upon by the Procuring Entity and the Contractor, the Contractor shall be deemed to have fulfilled its obligations with respect to the Functional Guarantees, and GCC Sub-Clauses 46.2 and 46.3 shall not apply.</p>  |
|  | <p>43.3</p> | <p><b>Operational Acceptance</b></p> <p>43.3.1 The Contractor may give a notice to the Project Manager requesting the issue of an Operational Acceptance Certificate in the form provided in the Procuring Entity’s Requirements (Forms and Procedures) in respect of the Facilities or the part thereof specified in such notice as of the date of such notice.</p> <p>43.3.2 The Project Manager shall, after consultation with the Procuring Entity, and within seven (7) days after receipt of the Contractor’s notice, issue an Operational Acceptance Certificate.</p> <p>43.3.3 If within seven (7) days after receipt of the Contractor’s notice, the Project Manager fails to issue the Operational Acceptance Certificate or fails to inform the Contractor in writing of the justifiable reasons why the Project Manager has not issued the Operational Acceptance Certificate, the Facilities or the relevant part thereof shall be deemed to have been accepted as of the date of the Contractor’s said notice.</p> |

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|  | 43.4 | <p><b><u>Partial Acceptance</u></b></p> <p>43.4.1 If the Contract specifies that Completion and Commissioning shall be carried out in respect of parts of the Facilities, the provisions relating to Completion and Commissioning including the Guarantee Test shall apply to each such part of the Facilities individually, and the Operational Acceptance Certificate shall be issued accordingly for each such part of the Facilities.</p> <p>43.4 If a part of the Facilities comprises facilities such as buildings, for which no Commissioning or Guarantee Test is required, then the Project Manager shall issue the Operational Acceptance Certificate for such facility when it attains Completion, provided that the Contractor shall thereafter complete any outstanding minor items that are listed in the Operational Acceptance Certificate.</p> |
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**Delayed Pre-commissioning and/or Guarantee Test**

43.5.1 In the event that the Contractor is unable to proceed with the Pre-commissioning of the Facilities pursuant to Sub-Clause 42.3, or with the Guarantee Test pursuant to Sub-Clause 43.2, for reasons attributable to the Procuring Entity either on account of non-availability of other facilities under the responsibilities of other contractor(s), or for reasons beyond the Contractor's control, the provisions leading to "deemed" completion of activities such as Completion, pursuant to GCC Sub-Clause 42.6, and Operational Acceptance, pursuant to GCC Sub-Clause 43.3.3, and Contractor's obligations regarding Defect Liability Period, pursuant to GCC Sub-Clause 45.2, Functional Guarantee, pursuant to GCC Clause 46, and Care of Facilities, pursuant to GCC Clause 50, and GCC Clause 71.1, Suspension, shall not apply. In this case, the following provisions shall apply.

43.5.2 When the Contractor is notified by the Project Manager that he will be unable to proceed with the activities and obligations pursuant to clauses 62, 63 & 64, the Contractor shall be entitled to the following:

- (a) the Time of Completion shall be extended for the period of suspension without imposition of liquidated damages pursuant to GCC Sub-Clause 44.2;
- (b) payments due to the Contractor in accordance with the provision specified in the Appendix to the Contract Agreement titled Terms and Procedures of Payment, which would not have been payable in normal circumstances due to non-completion of the subject activities, shall be released to the Contractor against submission of a security in the form of a bank guarantee of equivalent amount acceptable to the Procuring Entity, and which shall become null and void when the Contractor will have complied with its obligations regarding those payments, subject to the provision of Sub-Clause 43.5.3 below;
- (c) the expenses towards the above security and extension of other securities under the contract, of which validity needs to be extended, shall be reimbursed to the Contractor by the Procuring Entity;
- (d) the additional charges towards the care of the Facilities pursuant to GCC Sub-Clause 50.1 shall be reimbursed to the Contractor by the Procuring Entity for the period between the notification mentioned above and the notification mentioned in Sub-Clause 43.5.4 below. The provision of GCC Sub-Clause 49.2 shall apply to the Facilities during the same period.

43.5.3 In the event that the period of suspension under above Sub-Clause 43.5.1 actually exceeds one hundred eighty (180) days, the Procuring Entity and Contractor shall mutually agree to any additional compensation payable to the Contractor.

| <b>D. Guarantees and Liabilities</b> |      |   |
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| <b>44. Completion Time Guarantee</b> | 44.1 | The Contractor guarantees that it shall attain Completion of the Facilities (or a part for which a separate time for completion is specified) within the Time for Completion specified in the PCC pursuant to GCC Sub-Clause 29.1, or within such extended time to which the Contractor shall be entitled under GCC Clause 70 hereof.   |
|                                      | 44.2 | <p>If the Contractor fails to attain Completion of the Facilities or any part thereof within the Time for Completion or any extension thereof under GCC Clause 70, the Contractor shall pay to the Procuring Entity liquidated damages in the amount specified in the PCC as a percentage rate of the Contract Price or the relevant part thereof. The aggregate amount of such liquidated damages shall in no event exceed the amount specified as “Maximum” in the PCC as a percentage rate of the Contract Price. Once the “Maximum” is reached, the Procuring Entity may consider termination of the Contract, pursuant to GCC Sub-Clause 73.1.</p> <p>Such payment shall completely satisfy the Contractor’s obligation to attain Completion of the Facilities or the relevant part thereof within the Time for Completion or any extension thereof under GCC Clause 70. The Contractor shall have no further liability whatsoever to the Procuring Entity in respect thereof.</p> <p>However, the payment of liquidated damages shall not in any way relieve the Contractor from any of its obligations to complete the Facilities or from any other obligations and liabilities of the Contractor under the Contract.</p> <p>Save for liquidated damages payable under this GCC Sub-Clause 44.2, the failure by the Contractor to attain any milestone or other act, matter or thing by any date specified in the Appendix to the Contract Agreement titled Time Schedule, and/or other program of work prepared pursuant to GCC Sub-Clause 37.2 shall not render the Contractor liable for any loss or damage thereby suffered by the Procuring Entity.</p> |
|                                      | 44.3 | If the Contractor attains Completion of the Facilities or any part thereof before the Time for Completion or any extension thereof under GCC Clause 70, the Procuring Entity shall pay to the Contractor a bonus in the amount <b>specified in the PCC</b> . The aggregate amount of such bonus shall in no event exceed the amount specified as <b>“Maximum” in the PCC</b> .  |
| <b>45. Defect Liability</b>          | 45.1 | The Contractor warrants that the Facilities or any part thereof shall be free from defects in the design, engineering, materials and workmanship of the Plant supplied and of the work executed.  |
|                                      | 45.2 | The Defect Liability Period shall be five hundred and forty (540) days from the date of Completion of the Facilities (or any part thereof) or one year from the date of Operational Acceptance of the Facilities (or any part thereof), whichever first occurs, unless specified otherwise in the PCC pursuant to GCC Sub-Clause 45.10.   |

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|  |      | <p>If during the Defect Liability Period any defect should be found in the design, engineering, materials and workmanship of the Plant supplied or of the work executed by the Contractor, the Contractor shall promptly, in consultation and agreement with the Procuring Entity regarding appropriate remedying of the defects, and at its cost, repair, replace or otherwise make good as the Contractor shall determine at its discretion, such defect as well as any damage to the Facilities caused by such defect. The Contractor shall not be responsible for the repair, replacement or making good of any defect or of any damage to the Facilities arising out of or resulting from any of the following causes:</p> <ul style="list-style-type: none"> <li>(a) improper operation or maintenance of the Facilities by the Procuring Entity;</li> <li>(b) operation of the Facilities outside specifications provided in the Contract; or</li> <li>(c) Normal wear and tear.</li> </ul> |
|  | 45.3 | <p>The Contractor's obligations under this GCC Clause 45 shall not apply to:</p> <ul style="list-style-type: none"> <li>(a) any materials that are supplied by the Procuring Entity under GCC Sub-Clause 39.2, are normally consumed in operation, or have a normal life shorter than the Defect Liability Period stated herein;</li> <li>(b) any designs, specifications or other data designed, supplied or specified by or on behalf of the Procuring Entity or any matters for which the Contractor has disclaimed responsibility herein; or</li> <li>(c) Any other materials supplied or any other work executed by or on behalf of the Procuring Entity, except for the work executed by the Procuring Entity under GCC Sub-Clause 45.7.</li> </ul>  |
|  | 45.4 | <p>The Procuring Entity shall give the Contractor a notice stating the nature of any such defect together with all available evidence thereof, promptly following the discovery thereof. The Procuring Entity shall afford all reasonable opportunity for the Contractor to inspect any such defect.</p>   |
|  | 45.5 | <p>The Procuring Entity shall afford the Contractor all necessary access to the Facilities and the Site to enable the Contractor to perform its obligations under this GCC Clause 45.</p> <p>The Contractor may, with the consent of the Procuring Entity, remove from the Site any Plant or any part of the Facilities that are defective if the nature of the defect, and/or any damage to the Facilities caused by the defect, is such that repairs cannot be expeditiously carried out at the Site.</p>  |
|  | 45.6 | <p>If the repair, replacement or making good is of such a character that it may affect the efficiency of the Facilities or any part thereof, the Procuring Entity may give to the Contractor a</p>   |

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|                                  |       | <p>notice requiring that tests of the defective part of the Facilities shall be made by the Contractor immediately upon completion of such remedial work, whereupon the Contractor shall carry out such tests.</p> <p>If such part fails the tests, the Contractor shall carry out further repair, replacement or making good, as the case may be, until that part of the Facilities passes such tests. The tests shall be agreed upon by the Procuring Entity and the Contractor.</p>  |
|                                  | 45.7  | <p>If the Contractor fails to commence the work necessary to remedy such defect or any damage to the Facilities caused by such defect within a reasonable time (which shall in no event be considered to be less than fifteen (15) days), the Procuring Entity may, following notice to the Contractor, proceed to do such work, and the reasonable costs incurred by the Procuring Entity in connection therewith shall be paid to the Procuring Entity by the Contractor or may be deducted by the Procuring Entity from any monies due the Contractor or claimed under the Performance Security.</p> |
|                                  | 45.8  | <p>If the Facilities or any part thereof cannot be used by reason of such defect and/or making good of such defect, the Defect Liability Period of the Facilities or such part, as the case may be, shall be extended by a period equal to the period during which the Facilities or such part cannot be used by the Procuring Entity because of any of the aforesaid reasons.</p>  |
|                                  | 45.9  | <p>Except as provided in GCC Clauses 45 and 52, the Contractor shall be under no liability whatsoever and howsoever arising, and whether under the Contract or at law, in respect of defects in the Facilities or any part thereof, the Plant, design or engineering or work executed that appear after Completion of the Facilities or any part thereof, except where such defects are the result of the gross negligence, fraud, or criminal or willful action of the Contractor.</p>   |
|                                  | 45.10 | <p>In addition, any such component of the Facilities, and during the period of time as may be <b>specified in the PCC</b>, shall be subject to an extended defect liability period. Such obligation of the Contractor shall be in addition to the defect liability period specified under GCC Sub-Clause 45.2.</p>  |
| <b>46. Functional Guarantees</b> | 46.1  | <p>The Contractor guarantees that during the Guarantee Test, the Facilities and all parts thereof shall attain the Functional Guarantees specified in the Appendix to the Contract Agreement titled Functional Guarantees, subject to and upon the conditions therein specified.</p>  |
|                                  | 46.2  | <p>If, for reasons attributable to the Contractor, the minimum level of the Functional Guarantees specified in the Appendix to the Contract Agreement titled Functional Guarantees, are not met either in whole or in part, the Contractor shall at its cost and expense make such changes, modifications and/or additions to the Plant or any part thereof as may be necessary</p>   |

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|                             |      | to meet at least the minimum level of such Guarantees. The Contractor shall notify the Procuring Entity upon completion of the necessary changes, modifications and/or additions, and shall request the Procuring Entity to repeat the Guarantee Test until the minimum level of the Guarantees has been met. If the Contractor eventually fails to meet the minimum level of Functional Guarantees, the Procuring Entity may consider termination of the Contract, pursuant to GCC Sub-Clause 69.2.2.  |
|                             | 46.3 | <p>If, for reasons attributable to the Contractor, the Functional Guarantees specified in the Appendix to the Contract Agreement titled Functional Guarantees, are not attained either in whole or in part, but the minimum level of the Functional Guarantees specified in the said Appendix to the Contract Agreement is met, the Contractor shall, at the Contractor's option, either</p> <ul style="list-style-type: none"> <li>(a) make such changes, modifications and/or additions to the Facilities or any part thereof that are necessary to attain the Functional Guarantees at its cost and expense, and shall request the Procuring Entity to repeat the Guarantee Test or</li> <li>(b) pay liquidated damages to the Procuring Entity in respect of the failure to meet the Functional Guarantees in accordance with the provisions in the Appendix to the Contract Agreement titled Functional Guarantees.</li> </ul> |
|                             | 46.4 | The payment of liquidated damages under GCC Sub-Clause 46.3, up to the limitation of liability specified in the Appendix to the Contract Agreement titled Functional Guarantees, shall completely satisfy the Contractor's guarantees under GCC Sub-Clause 46.3, and the Contractor shall have no further liability whatsoever to the Procuring Entity in respect thereof. Upon the payment of such liquidated damages by the Contractor, the Project Manager shall issue the Operational Acceptance Certificate for the Facilities or any part thereof in respect of which the liquidated damages have been so paid.   |
| <b>47. Patent Indemnity</b> | 47.1 | The Contractor shall, subject to the Procuring Entity's compliance with GCC Sub-Clause 47.2, indemnify and hold harmless the Procuring Entity and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, which the Procuring Entity may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Contract by reason of: (a) the installation of the Facilities by the Contractor or the use of the Facilities in the country where the Site is located; and (b) the sale of the products produced by the Facilities in any country.   |

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|   |      | <p>Such indemnity shall not cover any use of the Facilities or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, any infringement resulting from the use of the Facilities or any part thereof, or any products produced thereby in association or combination with any other equipment, plant or materials not supplied by the Contractor, pursuant to the Contract Agreement.</p>   |
|   | 47.2 | <p>If any proceedings are brought or any claim is made against the Procuring Entity arising out of the matters referred to in GCC Sub-Clause 34.1, the Procuring Entity shall promptly give the Contractor a notice thereof, and the Contractor may at its own expense and in the Procuring Entity's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.</p> <p>If the Contractor fails to notify the Procuring Entity within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Procuring Entity shall be free to conduct the same on its own behalf. Unless the Contractor has so failed to notify the Procuring Entity within the twenty-eight (28) day period, the Procuring Entity shall make no admission that may be prejudicial to the defense of any such proceedings or claim.</p> <p>The Procuring Entity shall, at the Contractor's request, afford all available assistance to the Contractor in conducting such proceedings or claim, and shall be reimbursed by the Contractor for all reasonable expenses incurred in so doing.</p> |
|   | 47.3 | <p>The Procuring Entity shall indemnify and hold harmless the Contractor and its employees, officers and Subcontractors from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, which the Contractor may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Procuring Entity.</p>  |
| <p><b>48. Limitation of Liability</b></p> | 48.1 | <p>Except in cases of criminal negligence or willful misconduct,</p> <ul style="list-style-type: none"> <li>(a) neither Party shall be liable to the other Party, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, which may be suffered by the other Party in connection with the Contract, other than specifically provided as any obligation of the Party in the Contract, and</li> <li>(b) the aggregate liability of the Contractor to the Procuring Entity, whether under the Contract, in tort or otherwise, shall not exceed the amount resulting from</li> </ul>   |

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|                                  |      | the application of the multiplier specified in the PCC, to the Contract Price or, if a multiplier is not so specified, the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the Procuring Entity with respect to patent infringement..  |
| <b>E. Risk Distribution</b>      |      |   |
| <b>49. Transfer of Ownership</b> | 49.1 | Ownership of the Plant (including spare parts) to be imported into the country where the Site is located shall be transferred to the Procuring Entity upon loading on to the mode of transport to be used to convey the Plant from the country of origin to that country.   |
|                                  | 49.2 | Ownership of the Plant (including spare parts) procured in the country where the Site is located shall be transferred to the Procuring Entity when the Plant are brought on to the Site.  |
|                                  | 49.3 | Ownership of the Contractor's Equipment used by the Contractor and its Subcontractors in connection with the Contract shall remain with the Contractor or its Subcontractors.   |
|                                  | 49.4 | Ownership of any Plant in excess of the requirements for the Facilities shall revert to the Contractor upon Completion of the Facilities or at such earlier time when the Procuring Entity and the Contractor agree that the Plant in question are no longer required for the Facilities.   |
|                                  | 49.5 | Notwithstanding the transfer of ownership of the Plant, the responsibility for care and custody thereof together with the risk of loss or damage thereto shall remain with the Contractor pursuant to GCC Clause 50 (Care of Facilities) hereof until Completion of the Facilities or the part thereof in which such Plant are incorporated.  |
| <b>50. Care of Facilities</b>    | 50.1 | The Contractor shall be responsible for the care and custody of the Facilities or any part thereof until the date of Completion of the Facilities pursuant to GCC Clause 42 or, where the Contract provides for Completion of the Facilities in parts, until the date of Completion of the relevant part, and shall make good at its own cost any loss or damage that may occur to the Facilities or the relevant part thereof from any cause whatsoever during such period. The Contractor shall also be responsible for any loss or damage to the Facilities caused by the Contractor or its Subcontractors in the course of any work carried out, pursuant to GCC Clause 45. Notwithstanding the foregoing, the Contractor shall not be liable for any loss or damage to the Facilities or that part thereof caused by reason of any of the matters specified or referred to in paragraphs (a), (b) and (c) of GCC Sub-Clauses 50.2. |

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|   | 50.2 | <p>If any loss or damage occurs to the Facilities or any part thereof or to the Contractor's temporary facilities by reason of</p> <ul style="list-style-type: none"> <li>(a) insofar as they relate to the country where the Site is located, nuclear reaction, nuclear radiation, radioactive contamination, pressure wave caused by aircraft or other aerial objects, or any other occurrences that an experienced contractor could not reasonably foresee, or if reasonably foreseeable could not reasonably make provision for or insure against, insofar as such risks are not normally insurable on the insurance market and are mentioned in the general exclusions of the policy of insurance, including War Risks and Political Risks, taken out under GCC Clause 17 hereof; or</li> <li>(b) any use or occupation by the Procuring Entity or any third Party other than a Subcontractor, authorized by the Procuring Entity of any part of the Facilities; or</li> <li>(c) any use of or reliance upon any design, data or specification provided or designated by or on behalf of the Procuring Entity, or any such matter for which the Contractor has disclaimed responsibility herein,</li> </ul> |
|   | 50.3 | <p>the Procuring Entity shall pay to the Contractor all sums payable in respect of the Facilities executed, notwithstanding that the same be lost, destroyed or damaged, and will pay to the Contractor the replacement value of all temporary facilities and all parts thereof lost, destroyed or damaged. If the Procuring Entity requests the Contractor in writing to make good any loss or damage to the Facilities thereby occasioned, the Contractor shall make good the same at the cost of the Procuring Entity in accordance with GCC Clause 64. If the Procuring Entity does not request the Contractor in writing to make good any loss or damage to the Facilities thereby occasioned, the Procuring Entity shall either request a change in accordance with GCC Clause 69, excluding the performance of that part of the Facilities thereby lost, destroyed or damaged, or, where the loss or damage affects a substantial part of the Facilities, the Procuring Entity shall terminate the Contract pursuant to GCC Sub-Clause 71.1 hereof.</p>   |
|   | 50.4 | <p>The Contractor shall be liable for any loss of or damage to any Contractor's Equipment, or any other property of the Contractor used or intended to be used for purposes of the Facilities, except (i) as mentioned in GCC Sub-Clause 45.2 with respect to the Contractor's temporary facilities, and (ii) where such loss or damage arises by reason of any of the matters specified in GCC Sub-Clauses 50.2 (b) and (c).</p>  |
| <p><b>51. Loss of or Damage to Property; Accident or Injury to Workers; Indemnification</b></p> | 51.1 | <p>Subject to GCC Sub-Clause 51.3, the Contractor shall indemnify and hold harmless the Procuring Entity and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, in respect of the death or injury of any person or loss of or damage to any property other than the Facilities</p>  |

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|                      |      | whether accepted or not, arising in connection with the supply and installation of the Facilities and by reason of the negligence of the Contractor or its Subcontractors, or their employees, officers or agents, except any injury, death or property damage caused by the negligence of the Procuring Entity, its contractors, employees, officers or agents.  |
|                      | 51.2 | If any proceedings are brought or any claim is made against the Procuring Entity that might subject the Contractor to liability under GCC Sub-Clause 51.1, the Procuring Entity shall promptly give the Contractor a notice thereof and the Contractor may at its own expense and in the Procuring Entity's, name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.   |
|                      | 51.3 | If the Contractor fails to notify the Procuring Entity within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Procuring Entity shall be free to conduct the same on its own behalf. Unless the Contractor has so failed to notify the Procuring Entity within the twenty-eight (28) day period, the Procuring Entity shall make no admission that may be prejudicial to the defense of any such proceedings or claim.<br><br>The Procuring Entity shall, at the Contractor's request, afford all available assistance to the Contractor in conducting such proceedings or claim, and shall be reimbursed by the Contractor for all reasonable expenses incurred in so doing. |
|                      | 51.4 | The Procuring Entity shall indemnify and hold harmless the Contractor and its employees, officers and Subcontractors from any liability for loss of or damage to property of the Procuring Entity, other than the Facilities not yet taken over, that is caused by fire, explosion or any other perils, in excess of the amount recoverable from insurances procured under GCC Clause 52, provided that such fire, explosion or other perils were not caused by any act or failure of the Contractor.   |
|                      | 51.5 | The Party entitled to the benefit of an indemnity under this GCC Clause 51 shall take all reasonable measures to mitigate any loss or damage which has occurred. If the Party fails to take such measures, the other Party's liabilities shall be correspondingly reduced.  |
| <b>52. Insurance</b> | 52.1 | To the extent specified in the Appendix and in <b>PCC</b> to the Contract Agreement titled Insurance Requirements, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other conditions specified in the said Appendix. The identity of the insurers and the form of the policies shall be subject to the approval of the Procuring Entity, who should not unreasonably withhold such approval.<br><br>(a) <u>Cargo Insurance During Transport</u>  |

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|  |      | <p>Covering loss or damage occurring while in transit from the Contractor's or Subcontractor's works or stores until arrival at the Site, to the Plant (including spare parts therefor) and to the Contractor's Equipment.</p> <p>(b) <u>Installation All Risks Insurance</u><br/>Covering physical loss or damage to the Facilities at the Site, occurring prior to Completion of the Facilities, with extended maintenance coverage for the Contractor's liability in respect of any loss or damage occurring during the Defect Liability Period while the Contractor is on the Site for the purpose of performing its obligations during the Defect Liability Period.</p> <p>(c) <u>Third Party Liability Insurance</u><br/>Covering bodily injury or death suffered by third Parties including the Procuring Entity's personnel, and loss of or damage to property occurring in connection with the supply and installation of the Facilities.</p> <p>(d) <u>Automobile Liability Insurance</u><br/>Covering use of all vehicles used by the Contractor or its Subcontractors, whether or not owned by them, in connection with the execution of the Contract.</p> <p>(e) <u>Workers' Compensation</u><br/>In accordance with the statutory requirements applicable in any country where the Contract or any part thereof is executed.</p> <p>(f) <u>Procuring Entity's Liability</u><br/>In accordance with the statutory requirements applicable in any country where the Contract or any part thereof is executed.</p> <p>(g) <u>Other Insurances</u><br/>Such other insurances as may be specifically agreed upon by the Parties hereto as listed in the Appendix to the Contract Agreement titled Insurance Requirements.</p> |
|  | 52.2 | <p>The Procuring Entity shall be named as co-insured under all insurance policies taken out by the Contractor pursuant to GCC Sub-Clause 52.1, except for the Third Party Liability, Workers' Compensation and Procuring Entity's Liability Insurances, and the Contractor's Subcontractors shall be named as co-insureds under all insurance policies taken out by the Contractor pursuant to GCC Sub-Clause 52.1 except for the Cargo Insurance during Transportation, Workers' Compensation and</p>   |

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|  |      | Procuring Entity's Liability Insurances. All insurer's rights of subrogation against such co-insureds for losses or claims arising out of the performance of the Contract shall be waived under such policies.  |
|  | 52.3 | The Contractor shall, in accordance with the provisions of the Appendix to the Contract Agreement titled Insurance Requirements, deliver to the Procuring Entity certificates of insurance or copies of the insurance policies as evidence that the required policies are in full force and effect. The certificates shall provide that no less than twenty-one (21) days' notice shall be given to the Procuring Entity by insurers prior to cancellation or material modification of a policy.  |
|  | 52.4 | The Contractor shall ensure that, where applicable, its Subcontractor(s) shall take out and maintain in effect adequate insurance policies for their personnel and vehicles and for work executed by them under the Contract, unless such Subcontractors are covered by the policies taken out by the Contractor.   |
|  | 52.5 | The Procuring Entity shall at its expense take out and maintain in effect during the performance of the Contract those insurances specified in the Appendix to the Contract Agreement titled Insurance Requirements, in the sums and with the deductibles and other conditions specified in the said Appendix. The Contractor and the Contractor's Subcontractors shall be named as co-insured under all such policies. All insurers' rights of subrogation against such co-insured for losses or claims arising out of the performance of the Contract shall be waived under such policies. The Procuring Entity shall deliver to the Contractor satisfactory evidence that the required insurances are in full force and effect. The policies shall provide that not less than twenty-one (21) days' notice shall be given to the Contractor by all insurers prior to any cancellation or material modification of the policies. If so requested by the Contractor, the Procuring Entity shall provide copies of the policies taken out by the Procuring Entity under this GCC Sub-Clause 52.5. |
|  | 52.6 | If the Contractor fails to take out and/or maintain in effect the insurances referred to in GCC Sub-Clause 51.1, the Procuring Entity may take out and maintain in effect any such insurances and may from time to time deduct from any amount due to the Contractor under the Contract any premium that the Procuring Entity shall have paid to the insurer, or may otherwise recover such amount as a debt due from the Contractor. If the Procuring Entity fails to take out and/or maintain in effect the insurances referred to in GCC 49.5, the Contractor may take out and maintain in effect any such insurances and may from time to time deduct from any amount due the Procuring Entity under the Contract any premium that the Contractor shall have paid to the insurer, or may otherwise recover such amount as a debt due from the Procuring Entity. If the Contractor fails to or is unable to take out and maintain in effect any such   |

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|  |      | insurances, the Contractor shall nevertheless have no liability or responsibility towards the Procuring Entity, and the Contractor shall have full recourse against the Procuring Entity for any and all liabilities of the Procuring Entity herein.   |
|  | 52.7 | Unless otherwise provided in the Contract, the Contractor shall prepare and conduct all and any claims made under the policies affected by it pursuant to this GCC Clause 52, and all monies payable by any insurers shall be paid to the Contractor. The Procuring Entity shall give to the Contractor all such reasonable assistance as may be required by the Contractor. With respect to insurance claims in which the Procuring Entity's interest is involved, the Contractor shall not give any release or make any compromise with the insurer without the prior written consent of the Procuring Entity. With respect to insurance claims in which the Contractor's interest is involved, the Procuring Entity shall not give any release or make any compromise with the insurer without the prior written consent of the Contractor. |

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| <b>53. Limitation of Liability</b> | 53.1 | <p>Except in cases of criminal negligence or wilful misconduct,</p> <p>(a) the Contractor shall not be liable to the Procuring Entity, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the Procuring Entity; and</p> <p>(b) the aggregate liability of the Contractor to the Procuring Entity, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the Procuring Entity with respect to patent infringement.</p> |
| <b>54. Unforeseen Conditions</b>   | 54.1 | If, during the execution of the Contract, the Contractor shall encounter on the Site any physical conditions other than climatic conditions, or artificial obstructions that could not have been reasonably foreseen prior to the date of the Contract Agreement by an experienced contractor on the basis of reasonable examination of the data relating to the Facilities including any data as to boring tests, provided by the Procuring Entity, and on the basis of information that it could have obtained from a visual inspection of the Site if access thereto was available, or other data readily available to it relating to the Facilities, and if the Contractor determines that it will in consequence of such conditions or obstructions incur additional cost and expense or require additional time                                  |

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|  |      | <p>to perform its obligations under the Contract that would not have been required if such physical conditions or artificial obstructions had not been encountered, the Contractor shall promptly, and before performing additional work or using additional Plant or Contractor's Equipment, notify the Project Manager in writing beforehand:</p> <ul style="list-style-type: none"> <li>(a) the physical conditions or artificial obstructions on the Site that could not have been reasonably foreseen;</li> <li>(b) the additional work and/or Plant and/or Contractor's Equipment required, including the steps which the Contractor will or proposes to take to overcome such conditions or obstructions;</li> <li>(c) the extent of the anticipated delay; and</li> <li>(d) the additional cost and expense that the Contractor is likely to incur.)</li> </ul> <p>On receiving any notice from the Contractor under this GCC Sub-Clause 54.1, the Project Manager shall promptly consult with the Procuring Entity and Contractor and decide upon the actions to be taken to overcome the physical conditions or artificial obstructions encountered. Following such consultations, the Project Manager shall instruct the Contractor, with a copy to the Procuring Entity, of the actions to be taken.</p> |
|  | 54.2 | Any reasonable additional cost and expense incurred by the Contractor in following the instructions from the Project Manager to overcome such physical conditions or artificial obstructions referred to in GCC Sub-Clause 54.1 shall be paid by the Procuring Entity to the Contractor as an addition to the Contract Price.  |
|  | 54.3 | If the Contractor is delayed or impeded in the performance of the Contract because of any such physical conditions or artificial obstructions referred to in GCC Sub-Clause 54.1, the Time for Completion shall be extended in accordance with GCC Clause 65.  |
| <b>55. Adjustment for Changes in Legislation</b> | 55.1 | Unless otherwise specified in the Contract, if after the Contract, any law, regulation, ordinance, order or by law having the force of law is enacted, promulgated, abrogated, or changed in Bangladesh (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Contractor has thereby been affected in the performance of any of its obligations under the Contract.   |

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| <b>56. Force Majeure</b>                 | 56.1 | Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below: <ul style="list-style-type: none"> <li>(i) war, hostilities (whether war be declared or not), invasion, act of foreign enemies;</li> <li>(ii) rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war;</li> <li>(iii) riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel;</li> <li>(iv) munitions of war, explosive materials, ionising radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity, and</li> <li>(v) natural catastrophes such as cyclone, hurricane, typhoon, tsunami, storm surge, floods, earthquake, landslides, fires, epidemics, quarantine restrictions, or volcanic activity;</li> <li>(vi) freight embargoes;</li> <li>(vii) acts of the Government in its sovereign capacity.</li> </ul> |
|  | 56.2 | The Head of Procuring Entity decides the existence of a Force Majeure that will be the basis of the issuance of order for suspension of Supply as stated under GCC Sub Clause 59.2.  |
| <b>57. Notice of Force Majeure</b>       | 57.1 | If a Party is or will be prevented from performing its substantial obligations under the Contract by Force Majeure, then it shall give notice within fourteen (14) days after the party became aware, to the other Party of the event or circumstances constituting the Force Majeure and shall specify the obligations, the performance of which is or will be prevented.   |
|  | 57.2 | Notwithstanding any other provision of this Clause, Force Majeure shall not apply to obligations of either Party to make payments to the other Party under the Contract.   |
| <b>58. Duty to Minimise Delay</b>        | 58.1 | Each Party shall at all times use all reasonable endeavours to minimise any delay in the performance of the Contract as a result of Force Majeure.   |
|  | 58.2 | A Party shall give notice to the other Party when it ceases to be affected by the Force Majeure.   |
| <b>59. Consequences of Force Majeure</b> | 59.1 | The Contractor shall not be liable for forfeiture of its security, liquidated damages, or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure  |

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|                           | 59.2 | The Procuring Entity may suspend the delivery or contract implementation, wholly or partly, by written order for a certain period of time, as it deems necessary due to Force Majeure as defined in the Contract.  |
|                           | 59.3 | Delivery shall be made either upon the lifting or the expiration of the suspension order. However, if the Procuring Entity terminates the contract as stated under GCC Clause 59, resumption of delivery cannot be done.   |
|                           | 59.4 | After receiving notice under GCC Sub Clause 57.1, the Procuring Entity shall proceed to determine these matters under the provisions of the Contract.  |
| <b>F. Payment</b>         |      |  |
| <b>60. Contract Price</b> | 60.1 | The Contract Price shall be paid as specified in the Contract Agreement Form PG5A- 8.  |
|                           | 60.2 | Unless an adjustment clause is provided for in the <b>PCC</b> , the Contract Price shall be a firm lump sum not subject to any alteration, except in the event of a Change in the Facilities or as otherwise provided in the Contract.   |
|                           | 60.3 | Subject to GCC Sub-Clauses 30.2, 31.1 and 54 hereof, the Contractor shall be deemed to have satisfied itself as to the correctness and sufficiency of the Contract Price, which shall, except as otherwise provided for in the Contract, cover all its obligations under the Contract.   |
|                           | 60.4 | <p>Prices shall be adjusted for fluctuations in the cost of inputs only if provided for in the <b>PCC</b>. If so provided, the amounts as certified in each payment certificate, before deducting for Advance Payment, shall be adjusted by applying the respective price adjustment factor to the payment amount. The generic formula indicated below in the form as specified in the PCC applies:</p> <p><b><math>P = A + B (I_m/I_o)</math></b></p> <p>where:</p> <p><b>P</b> is the adjustment factor</p> <p><b>A</b> and <b>B</b> are Coefficients specified in the PCC, representing the nonadjustable and adjustable portions, respectively, of the Contract; and</p> <p><b>I<sub>m</sub></b> is the Index during the month the work has been executed and <b>I<sub>o</sub></b> is the Index prevailing twenty-eight (28) days prior to the deadline for submission of Tender.</p> <p>The Indexes to be used is as published by the Bangladesh Bureau of Statistics (BBS) on a monthly basis. In case not available, then other countries or authorities of the sources mentioned in <b>Appendix to the Tender</b> may be used.</p> |
|                           | 60.5 | If the value of the Index is changed after it has been used in a calculation, the calculation shall be corrected and an  |

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|                                     |      | adjustment made in the next or in the final payment certificate. The Index value shall be deemed to take account of all changes in price due to fluctuations.  |
| <b>61. Terms of Payment</b>         | 61.1 | The Contract Price, including any Advance Payments specified in PCC, if applicable, shall be paid in the manner as specified in the PCC and in the Appendix to the Contract Agreement titled Terms and Procedures of Payment, which also outlines the procedures to be followed in making application for and processing payments.   |
|                                     | 61.2 | No payment made by the Procuring Entity herein shall be deemed to constitute acceptance by the Procuring Entity of the Facilities or any part(s) thereof.  |
|                                     | 61.3 | Payments shall be made promptly by the Procuring Entity after submission of an invoice or request for payment by the Contractor, and after the Procuring Entity has accepted it.   |
|                                     | 61.4 | The currency or currencies in which payments are made to the Contractor under this Contract shall be specified in the Appendices to the Contract Agreement titled Terms and Procedures of Payment, subject to the general principle that payments will be made in the currency or currencies in which the Contract Price has been stated in the Contractor's tender.   |
|                                     | 61.5 | In the event that the Procuring Entity fails to pay the Contractor any payment by its respective due date or within the period as stated under GCC Sub Clause 61.3, the Procuring Entity shall pay to the Contractor interest on the amount of such delayed payment at the rate specified in the PCC, for the period of delay until payment has been made in full.   |
|                                     | 61.6 | If an amount certified is increased in a subsequent certificate as a result of an award by the Adjudicator or an Arbitrator, the Contractor shall be paid interest upon the delayed payment as set out in this clause. Interest shall be calculated from the date upon which the increased amount would have been certified in the absence of dispute.   |
| <b>62. Advance Payment Security</b> | 62.1 | The Contractor shall, within twenty-eight (28) days of the notification of contract award, provide a security in an amount equal to the advance payment calculated in accordance with the Appendix to the Contract Agreement titled Terms and Procedures of Payment, and in the same currency or currencies.   |
|                                     | 62.2 | The security shall be in the form provided in the tender documents or in another form acceptable to the Procuring Entity. The amount of the security shall be reduced in proportion to the value of the Facilities executed by and paid to the Contractor from time to time, and shall automatically become null and void when the full amount of the advance payment has been recovered by the Procuring Entity. The security shall be returned to the Contractor immediately after its expiration. |
| <b>63. Performance Security</b>     | 63.1 | The Procuring Entity shall notify the Contractor of any claim made against the Bank issuing the Performance Security. in the amount specified in the PCC.  |

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|                             | 63.2 | The Procuring Entity may claim against the security if any of the following events occurs for fourteen (14) days or more. <ul style="list-style-type: none"> <li>i. The Contractor is in breach of the Contract and the Procuring Entity has duly notified him or her; and</li> <li>ii. The Contractor has not paid an amount due to the Procuring Entity and the Procuring Entity has duly notified him or her.</li> </ul>  |
|                             | 63.3 | In the event as stated under GCC Sub Clause 63.2, the Contractor is liable to pay compensation under the Contract amounting to the full value of the Performance Security or more, the Procuring Entity may call the full amount of the security.  |
|                             | 63.4 | Unless otherwise specified in the <b>PCC</b> , the security shall be reduced by half on the date of the Operational Acceptance. The Security shall become null and void, or shall be reduced pro rata to the Contract Price of a part of the Facilities for which a separate Time for Completion is provided, five hundred and forty (540) days after Completion of the Facilities or three hundred and sixty five (365) days after Operational Acceptance of the Facilities, whichever occurs first; provided, however, that if the Defects Liability Period has been extended on any part of the Facilities pursuant to GCC Sub-Clause 45.8 hereof, the Contractor shall issue an additional security in an amount proportionate to the Contract Price of that part. The security shall be returned to the Contractor immediately after its expiration, provided, however, that if the Contractor, pursuant to GCC Sub-Clause 45.10, is liable for an extended defect liability obligation, the performance security shall be extended for the period specified in the PCC pursuant to GCC Sub-Clause 45.10 and up to the amount specified in the PCC. |
|                             | 63.5 | If there is no reason to call the security, the security shall be discharged by the Procuring Entity and returned to the Contractor not later than seven (7) days following the date of making the final payment to the Contractor under the Contract and subject to the issuance of the Acceptance Certificate by the Procuring Entity,   |
| <b>64. Retention Money</b>  | 64.1 | The Procuring Entity shall retain an amount from the payable amount due to the Contractor at the percentage specified in the <b>PCC</b> until successful expiration of the Defect Liability period.  |
|                             | 64.2 | The total amount retained under GCC Sub Clause 64.1 shall be kept to meet any claims during the Defect Liability Period and shall be returned after the successful expiration of Defects Liability Period and the Project Manager has certified in the form of <b>Defects Corrections Certificate</b> .  |
| <b>65. Taxes and Duties</b> | 65.1 | The Contractor shall be entirely responsible for all kinds of taxes, customs duties, VAT, fees, levies, and such other charges assessed on the Contractor, its Subcontractors or their employees by all municipal, state or national government authorities in connection with the Facilities in and outside of the country where the Site is located.   |

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|   | 65.2 | Notwithstanding GCC Sub-Clause 65.1 above, the Procuring Entity shall bear and promptly pay<br><br>(a) all customs and import duties for the Plant specified in Price Schedule No. 1; and<br>(b) other domestic taxes such as, sales tax and value added tax (VAT) on the Plant specified in Price Schedules No. 1 and No. 2 and that is to be incorporated into the Facilities, and on the finished goods, imposed by the law of the country where the Site is located.  |
|   | 65.3 | In the event that the rate of any direct or indirect tax (including, but not limited to, income tax, VAT, customs duties, etc.) is altered by virtue of any law, regulation, order, or other legal instrument, the Contract Price shall, subject to the approval of the Head of the Procuring Entity, be adjusted (either upward or downward) so as to ensure that the net amount payable to the Contractor remains unaffected by such legal changes.   |
| <b>66. Payments to Nominated Subcontractor(s)</b> | 66.1 | The Contractor shall pay to the Nominated Subcontractor(s) the amounts shown on the Nominated Subcontractor's invoices approved by the Contractor in accordance with the subcontract included under the Contract.   |
| <b>67. Price Adjustment</b>                       | 67.1 | Where the Contract Period (excluding the Defects Liability Period) exceeds eighteen (18) months, it is normal procedure that prices payable to the Contractor shall be subject to adjustment during the performance of the Contract to reflect changes occurring in the cost of labour and material components. In such cases the tender documents shall include in the Appendix 2, a formula of such price adjustment.   |
|   | 67.2 | Where Contracts are of a shorter duration than eighteen (18) months or in cases where there is to be no Price Adjustment, the following provision shall not be included. Instead, it shall be indicated under this Appendix 2 that the prices are to remain firm and fixed for the duration of the Contract.  |
|   | 67.3 | If the value of the Index is changed after it has been used in a calculation, the calculation shall be corrected and an adjustment made in the next or in the final payment certificate. The Index value shall be deemed to take account of all changes in price due to fluctuations.   |
| <b>68. Liquidated Damages</b>                     | 68.1 | Except as provided under GCC Sub Clause 56, if the Contractor fails to complete the Plant and Equipment Works within the Intended Completion Date or extended Intended Completion Date of the contract or Intended Sectional Completion Date or extended sectional completion date of any section under the contract, the Procuring Entity shall, as Liquidated Damages, deduct from the Contract Price, a sum at the percent-rate per day of delay as specified in the <b>PCC</b> , of the contract value of the uncompleted works or part thereof completed after the Intended Completion Date or extended Intended Completion Date, as applicable. The total amount of Liquidated Damages or Delay Damages shall not exceed the amount specified in the <b>PCC</b> . The Procuring Entity may deduct Liquidated Damages from payments due to the Contractor. Payment of Liquidated |

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|                                       |      | damages shall not affect the Contractor's liabilities.   |
| <b>G. Change in Contract Elements</b> |      |  |
| <b>69. Change in the Facilities</b>   | 69.1 | <p><b><u>Introducing a Change</u></b></p> <p>69.1.1 Subject to GCC Sub-Clauses 69.2.5 and 69.2.7, the Procuring Entity shall have the right to propose, and subsequently require, that the Project Manager order the Contractor from time to time during the performance of the Contract to make any change, modification, addition or deletion to, in or from the Facilities hereinafter called "Change", provided that such Change falls within the general scope of the Facilities and does not constitute unrelated work and that it is technically practicable, taking into account both the state of advancement of the Facilities and the technical compatibility of the Change envisaged with the nature of the Facilities as specified in the Contract</p> <p>69.1.2 The Contractor may from time to time during its performance of the Contract propose to the Procuring Entity with a copy to the Project Manager, any Change that the Contractor considers necessary or desirable to improve the quality, efficiency or safety of the Facilities. The Procuring Entity may at its discretion approve or reject any Change proposed by the Contractor, provided that the Procuring Entity shall approve any Change proposed by the Contractor to ensure the safety of the Facilities.</p> <p>69.1.3 Notwithstanding GCC Sub-Clauses 64.1.1 and 64.1.2, no change made necessary because of any default of the Contractor in the performance of its obligations under the Contract shall be deemed to be a Change, and such change shall not result in any adjustment of the Contract Price or the Time for Completion.</p> <p>69.1.4 The procedure on how to proceed with and execute Changes is specified in GCC Sub-Clauses 64.2 and 64.3, and further details and forms are provided in the Procuring Entity's Requirements (Forms and Procedures)</p> |
|                                       | 69.2 | <p><b><u>Changes Originating from Procuring Entity</u></b></p> <p>69.2.1 If the Procuring Entity proposes a Change pursuant to GCC Sub-Clause 69.1.1, it shall send to the Contractor a "Request for Change Proposal," requiring the Contractor to prepare and furnish to the Project Manager as soon as reasonably practicable a "Change Proposal," which shall include the following:</p> <p style="padding-left: 40px;">(a) brief description of the Change</p>   |

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|  |  | <ul style="list-style-type: none"> <li>(b) effect on the Time for Completion</li> <li>(c) estimated cost of the Change</li> <li>(d) effect on Functional Guarantees (if any)</li> <li>(e) effect on the Facilities</li> <li>(f) effect on any other provisions of the Contract.</li> </ul> <p>69.2.2 Prior to preparing and submitting the “Change Proposal,” the Contractor shall submit to the Project Manager an “Estimate for Change Proposal,” which shall be an estimate of the cost of preparing and submitting the Change Proposal.</p> <p>Upon receipt of the Contractor’s Estimate for Change Proposal, the Procuring Entity shall do one of the following:</p> <ul style="list-style-type: none"> <li>(a) accept the Contractor’s estimate with instructions to the Contractor to proceed with the preparation of the Change Proposal</li> <li>(b) advise the Contractor of any part of its Estimate for Change Proposal that is unacceptable and request the Contractor to review its estimate</li> <li>(c) advise the Contractor that the Procuring Entity does not intend to proceed with the Change.</li> </ul> <p>69.2.3 Upon receipt of the Procuring Entity’s instruction to proceed under GCC Sub-Clause 69.2.2 (a), the Contractor shall, with proper expedition, proceed with the preparation of the Change Proposal, in accordance with GCC Sub-Clause 69.2.1.</p> <p>69.2.4 The pricing of any Change shall, as far as practicable, be calculated in accordance with the rates and prices included in the Contract. If such rates and prices are inequitable, the Parties thereto shall agree on specific rates for the valuation of the Change</p> <p>69.2.5 If before or during the preparation of the Change Proposal it becomes apparent that the aggregate effect of compliance therewith and with all other Change Orders that have already become binding upon the Contractor under this GCC Clause 69 would be to increase or decrease the Contract Price as originally set forth in Article 2 (Contract Price) of the Contract Agreement by more than fifteen percent (15%), the Contractor may give a written notice of objection thereto prior to furnishing the Change Proposal as aforesaid. If the Procuring Entity accepts the Contractor’s objection, the Procuring Entity shall withdraw the proposed Change and shall notify the Contractor in writing thereof.</p> <p>The Contractor’s failure to so object shall neither affect its right to object to any subsequent requested Changes</p> |
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|  |             | <p>or Change Orders herein, nor affect its right to take into account, when making such subsequent objection, the percentage increase or decrease in the Contract Price that any Change not objected to by the Contractor represents.</p> <p>69.2.6 Upon receipt of the Change Proposal, the Procuring Entity and the Contractor shall mutually agree upon all matters therein contained. Within fourteen (14) days after such agreement, the Procuring Entity shall, if it intends to proceed with the Change, issue the Contractor with a Change Order.</p> <p>If the Procuring Entity is unable to reach a decision within fourteen (14) days, it shall notify the Contractor with details of when the Contractor can expect a decision.</p> <p>If the Procuring Entity decides not to proceed with the Change for whatever reason, it shall, within the said period of fourteen (14) days, notify the Contractor accordingly. Under such circumstances, the Contractor shall be entitled to reimbursement of all costs reasonably incurred by it in the preparation of the Change Proposal, provided that these do not exceed the amount given by the Contractor in its Estimate for Change Proposal submitted in accordance with GCC Sub-Clause 69.2.2.</p> <p>69.2.7 If the Procuring Entity and the Contractor cannot reach agreement on the price for the Change, an equitable adjustment to the Time for Completion, or any other matters identified in the Change Proposal, the Procuring Entity may nevertheless instruct the Contractor to proceed with the Change by issue of a "Pending Agreement Change Order." Upon receipt of a Pending Agreement Change Order, the Contractor shall immediately proceed with effecting the Changes covered by such Order. The Parties shall thereafter attempt to reach agreement on the outstanding issues under the Change Proposal.</p> |
|  | <p>69.3</p> | <p><b>Changes Originating from Contractor</b></p> <p>69.3.1 If the Contractor proposes a Change pursuant to GCC Sub-Clause 69.1.2, the Contractor shall submit to the Project Manager a written "Application for Change Proposal," giving reasons for the proposed Change and including the information specified in GCC Sub-Clause 69.2.1.</p> <p>Upon receipt of the Application for Change Proposal, the Parties shall follow the procedures outlined in GCC Sub-Clauses 69.2.6 and</p> <p>69.3.2. However, should the Procuring Entity choose not to proceed, the Contractor shall not be entitled to recover the costs of preparing the Application for</p>   |

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|  |      | Change Proposal.  |
| <b>70. Extension of Delivery and Completion Schedule</b> | 70.1 | The Contractor must deliver the Plant and the services procured within the period prescribed by the Procuring Entity, as specified in the <b>TDS</b> .  |
|  | 70.2 | <p>The Time(s) for Completion specified in the PCC pursuant to GCC Sub-Clause 29.1 shall be extended if the Contractor is delayed or impeded in the performance of any of its obligations under the Contract by reason of any of the following:</p> <ul style="list-style-type: none"> <li>(a) any Change in the Facilities as provided in GCC Clause 69</li> <li>(b) any occurrence of Force Majeure as provided in GCC Clause 56, unforeseen conditions as provided in GCC Clause 54, or other occurrence of any of the matters specified or referred to in paragraphs (a), (b) and (c) of GCC Sub-Clause 50.2</li> <li>(c) any suspension order given by the Procuring Entity under GCC Clause 44 hereof or reduction in the rate of progress pursuant to GCC Sub-Clause 71.2 or</li> <li>(d) any changes in laws and regulations as provided in GCC Clause 55 or</li> <li>(e) any default or breach of the Contract by the Procuring Entity, Appendix to the Contract Agreement titled, or any activity, act or omission of the Procuring Entity, or the Project Manager, or any other contractors employed by the Procuring Entity, or</li> <li>(f) any delay on the part of a sub-contractor, provided such delay is due to a cause for which the Contractor himself would have been entitled to an extension of time under this sub-clause, or</li> <li>(g) delays attributable to the Procuring Entity or caused by customs, or</li> <li>(h) any other matter specifically mentioned in the Contract</li> </ul> <p>by such period as shall be fair and reasonable in all the circumstances and as shall fairly reflect the delay or impediment sustained by the Contractor.</p> |

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|  | 70.3 | Except where otherwise specifically provided in the Contract, the Contractor shall submit to the Project Manager a notice of a claim for an extension of the Time for Completion, together with particulars of the event or circumstance justifying such extension as soon as reasonably practicable after the commencement of such event or circumstance. As soon as reasonably practicable after receipt of such notice and supporting particulars of the claim, the Procuring Entity and the Contractor shall agree upon the period of such extension. The Contractor shall at all times use its reasonable efforts to minimize any delay in the performance of its obligations under the Contract. |
|  | 70.4 | In all cases where the Contractor has given a notice of a claim for an extension of time under GCC 65.2, the Contractor shall consult with the Project Manager in order to determine the steps (if any) which can be taken to overcome or minimize the actual or anticipated delay. The Contractor shall there after comply with all reasonable instructions which the Project Manager shall give in order to minimize such delay. If compliance with such instructions shall cause the Contractor to incur extra costs and the Contractor is entitled to an extension of time under GCC 65.1, the amount of such extra costs shall be added to the Contract Price.                                    |
|  | 70.5 | Within twenty-one (21) days of receipt of the Contractor's notice, the Procuring Entity shall evaluate the situation and may grant time extensions, if based on justifiable grounds, without liquidated damages.   |
|  | 70.6 | The Procuring may extend up to thirty percent (30%) of the original contract time. above 30% of the original contract time as mentioned in GCC Sub Clause 70.1.  |
|  | 70.7 | In the case an extension of the original delivery schedule required under GCC Sub Clause 70.1 is or will be more than thirty (30) percent but not beyond one hundred (100) percent additional to the original Contract time, approval of the Head of the Procuring Entity or an officer authorized by him or her for the same shall be required.   |
|  | 70.8 | In exceptional cases, where an extension of the original contract time required under GCC Sub Clause 70.1 is or will be more than one hundred (100) percent of the original Contract time, approval of the Secretary of the concerned ministry or division for the same shall be required.   |
|  | 70.9 | Except in case of Force Majeure, as provided under GCC Clause 56, a delay by the Contractor in the performance of its delivery and completion obligations shall render the Contractor liable to the imposition of Liquidated Damages pursuant to GCC Clause 68, unless an extension of the Delivery and Completion Schedule is agreed upon, pursuant to GCC Clause 70.   |

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| 71. Suspension | 71.1 | <p>The Procuring Entity may request the Project Manager, by notice to the Contractor, to order the Contractor to suspend performance of any or all of its obligations under the Contract. Such notice shall specify the obligation of which performance is to be suspended, the effective date of the suspension and the reasons thereof. The Contractor shall thereupon suspend performance of such obligation, except those obligations necessary for the care or preservation of the Facilities, until ordered in writing to resume such performance by the Project Manager.</p> <p>If, by virtue of a suspension order given by the Project Manager, other than by reason of the Contractor's default or breach of the Contract, the Contractor's performance of any of its obligations is suspended for an aggregate period of more than ninety (90) days, then at any time thereafter and provided that at that time such performance is still suspended, the Contractor may give a notice to the Project Manager requiring that the Procuring Entity shall, within twenty-eight (28) days of receipt of the notice, order the resumption of such performance or request and subsequently order a change in accordance with GCC Clause 69, excluding the performance of the suspended obligations from the Contract.</p> <p>If the Procuring Entity fails to do so within such period, the Contractor may, by a further notice to the Project Manager, elect to treat the suspension, where it affects a part only of the Facilities, as a deletion of such part in accordance with GCC Clause 69 or, where it affects the whole of the Facilities</p> |
|                | 71.2 | <p><b>If</b></p> <p>(a) the Procuring Entity has failed to pay the Contractor any sum due under the Contract within the specified period, has failed to approve any invoice or supporting documents without just cause pursuant to the Appendix to the Contract Agreement titled Terms and Procedures of Payment, or commits a substantial breach of the Contract, the Contractor may give a notice to the Procuring Entity that requires payment of such sum, with interest thereon as stipulated in GCC Sub-Clause 61.6, requires approval of such invoice or supporting documents, or specifies the breach and requires the Procuring Entity to remedy the same, as the case may be. If the Procuring Entity fails to pay such sum together with such interest, fails to approve such invoice or supporting documents or give its reasons for withholding such approval, or fails to remedy the breach or take steps to remedy the breach within fourteen (14) days after receipt of the Contractor's notice or</p>   |

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|  |      | <p>(b) the Contractor is unable to carry out any of its obligations under the Contract for any reason attributable to the Procuring Entity, including but not limited to the Procuring Entity's failure to provide possession of or access to the Site or other areas in accordance with GCC Sub-Clause 30.2, or failure to obtain any governmental permit necessary for the execution and/or completion of the Facilities,</p> <p>then the Contractor may by fourteen (14) days' notice to the Procuring Entity suspend performance of all or any of its obligations under the Contract, or reduce the rate of progress.</p>   |
|  | 71.3 | If the Contractor's performance of its obligations is suspended or the rate of progress is reduced pursuant to this GCC Clause 71, then the Time for Completion shall be extended in accordance with GCC Sub-Clause 43.1, and any and all additional costs or expenses incurred by the Contractor as a result of such suspension or reduction shall be paid by the Procuring Entity to the Contractor in addition to the Contract Price, except in the case of suspension order or reduction in the rate of progress by reason of the Contractor's default or breach of the Contract.   |
|  | 71.4 | During the period of suspension, the Contractor shall not remove from the Site any Plant, any part of the Facilities or any Contractor's Equipment, without the prior written consent of the Procuring Entity.  |
| <b>H. Termination and Settlement of Disputes</b> |      |   |
| <b>72. Notice to Correct</b>                     | 72.1 | <p>If the Contractor fails to carry out any obligation under the Contract the Project Manager may, by giving a Notice to the Contractor, require the Contractor to make good the failure and to remedy it within a specified time ('Notice to Correct' in these Conditions).</p> <p>The Notice to Correct shall:</p> <ul style="list-style-type: none"> <li>(a) describe the Contractor's failure to comply with any contractual obligations;</li> <li>(b) state the Sub-Clause and/or provisions of the Contract under which the Contractor has the obligation; and</li> </ul> <p>specify the time within which the Contractor shall remedy the failure, which shall be reasonable, taking due regard of the nature of the failure and the work and/or other action required to remedy it.</p> |
|  | 72.2 | After receiving a Notice to correct the Contractor shall immediately respond but not later than 5 (five) days by giving a reply to the Project Manager describing the measures the Contractor will take to remedy the failure, and stating the date on which such measures will be commenced in order to comply with the time specified in the notice to correct. The   |

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|                                    |      | time specified in the notice to correct shall not imply any extension of the Time for Completion.   |
| <b>73. Termination for Default</b> | 73.1 | <p>The Procuring Entity or the Contractor, without prejudice to any other remedy for breach of Contract, by giving fourteen (14) working-days written Notice of Termination mentioning the clause of breach to the other party, may terminate the Contract in whole or in part if the other party causes a fundamental breach of Contract. Fundamental breaches of the Contract shall include, but shall not be limited to, the following:</p> <ol style="list-style-type: none"> <li>i. the Contractor stops work for twenty-eight (28) days when no stoppage of work is shown on the current Programme or the Contractor stops works repeatedly without any valid ground and the stoppage has not been authorized by the Project Manager.</li> <li>ii. the Contractor fails to commence the work within the Start date;</li> <li>iii. the Contractor does not maintain a Security, which is required;</li> <li>iv. the Contractor fails to comply with instructions of the Notice to Correct as specified in GCC Clause 72;</li> <li>v. the Project Manager instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within eighty-four (84) days;</li> <li>vi. the Procuring Entity fails to handover the full works-site or a substantial portion of the works-site to the Contractor within eighty-four (84) days of contract signing.</li> <li>vii. the Project Manager gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Project Manager;</li> <li>viii. the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of Liquidated Damages can be paid, as specified in GCC Sub Clause 68;</li> <li>ix. the Contractor has subcontracted the Works exceeding the percentage as mentioned in GCC Sub Clause 23.1 or any subcontractor has been engaged during contract implementation without the prior approval of the Head of Procuring Entity or Authorized Officer as specified in GCC Sub Clause 23.6.</li> <li>x. the Contractor, in the judgment of the Procuring Entity has engaged in corrupt or fraudulent or collusive or coercive or obstructive practices, in case development partner, as defined in GCC Clause 6, in competing for or in executing the Contract.</li> <li>xi. A payment certified by the Project Manager is not paid by the Procuring Entity to the Contractor within eighty-four (84) days of the date of the Project Manager's certificate.</li> </ol> |

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|                                       | 73.2 | If any of the events pointed out under GCC Sub Clause 72.1 or any such event that is not listed in that clause but can be deemed as a fundamental breach of a contract happens, the affected party shall notify (first notice- Notice of Default) the defaulted party of such event and its intention to terminate the contract making reference(s) to the relevant GCC Clauses and ask the defaulted party the reason why the affected party will not terminate the contract with a 21-day timeline from the issuance of the first notice to provide any clarification. |
|                                       | 73.3 | If the Procuring Entity receives a reasonable clarification on the breaching event from the Contractor or the Contractor attempts and accomplishes any remedial action to mitigate the breach event, the Procuring Entity may affirm the contract without limiting its right to terminate the contract for any other fundamental breach by the Contractor.   |
|                                       | 73.4 | If the Procuring Entity does not receive any response or receive an unacceptable clarification on the breach event, it may terminate the contract mentioning an immediate effective date through a final notice.   |
|                                       | 73.5 | The final notice (Notice of Termination) will be issued by the Procuring Entity getting approval from the Head of the Procuring Entity and the Contractor shall not perform any activity after issuance of that notice.  |
|                                       | 73.6 | The Head of the Procuring Entity may create a Contract Termination Review Committee (CTRC) to assist him in the discharge of this function. All decisions recommended by the CTRC shall be subject to the approval of the Head of the Procuring Entity.  |
|                                       | 73.7 | In the event the Procuring Entity terminates the Contract in whole or in part, as stated under GCC Clause 73.1, the Procuring Entity may procure, upon such terms and in such manner as it deems appropriate, Plant similar to those not completed or not performed, and the Contractor shall be liable to the Procuring Entity for any additional costs as mentioned in the PCC for such similar Goods. However, the Contractor shall continue performance of the Contract to the extent not terminated.  |
| <b>74. Termination for Insolvency</b> | 74.1 | The Procuring Entity shall terminate this Contract if the Contractor is declared bankrupt or insolvent as determined with finality by a court of competent jurisdiction. In this event, termination will be without compensation to the Contractor, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Entity and/or the Contractor.   |

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| <b>75. Termination for Convenience</b> | 75.1 | The Procuring Entity, by giving twenty-one (21) days written notice sent to the Contractor, may terminate this Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that the termination is for the procuring Entity's convenience, the extent to which performance of the Contractor under the contract is terminated, and the date upon which such termination becomes effective.  |
|  | 75.2 | The Goods that have been delivered and/or performed or are ready for delivery or performance within twenty-one (21) days after the Contractor's receipt of Notice to Terminate shall be accepted by the Procuring Entity at the contract terms and prices. For Goods not yet performed and/or ready for delivery, the Procuring Entity may elect: <ul style="list-style-type: none"> <li>(a) to have any portion delivered and/or performed and paid at the contract terms and prices; and/or</li> <li>(b) to cancel the remainder and pay to the Contractor an agreed amount for partially completed and/or performed goods and for materials and parts previously procured by the Contractor</li> </ul> |
|  | 75.3 | The expiration of the Delivery and Completion Schedule, initiation of amicable settlement of disputes, adjudication and arbitral proceedings under the set terms and conditions shall not be deemed a termination of the contract.  |
| <b>76. Payment upon Termination</b>    | 76.1 | If the Contract is terminated because of a fundamental breach of Contract under GCC Sub Clause 73.1 by the Contractor, the Project Manager shall issue a certificate for the value of the Works done and Plant and Materials ordered less advance payments received up to the date of the issue of the certificate and less the amount from percentage to apply to the contract value of the works not completed, as indicated in the PCC. If the total amount due to the Procuring Entity exceeds any payment due to the Contractor, the difference shall be a debt payable to the Procuring Entity.   |
|  | 76.2 | If the Contract is terminated for the Procuring Entity's convenience or because of a fundamental breach of Contract by the Procuring Entity, the Project Manager shall issue a payment certificate for the value of the work done, Materials ordered, the reasonable cost of removal of Equipment, repatriation of the Contractor's foreign personnel employed solely on the Works and recruited specifically for the Works, and the Contractor's costs of protecting and securing the Works, and less advance payments received up to the date of the certificate.   |
|  | 76.3 | If the Contract is terminated for reasons of Force Majeure, the The Project Manager shall determine the value of the work done and issue a Payment Certificate which shall include. <ul style="list-style-type: none"> <li>(a) the amounts payable for any work carried out for which unit rates or prices are stated in the</li> </ul>   |

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|                                  |      | <p>Contract;</p> <p>(b) the cost of Plant and Materials ordered for the Works which have been delivered to the Contractor, or of which the Contractor is liable to accept delivery: this Plant and Materials shall become the property of (and be at the risk of) the Procuring Entity when paid for by the Procuring Entity, and the Contractor shall place the same at the Procuring Entity's disposal;</p> <p>(c) other costs or liabilities which in the circumstances were reasonably and necessarily incurred by the Contractor in the expectation of completing the Works;</p> <p>(d) the cost of removal of Temporary Works and Contractor's Equipment from the Site; and</p> <p>(e) the cost of repatriation of the Contractor's staff and labour employed wholly in connection with the Works at the date of termination.</p> |
| <b>77. Property</b>              | 77.1 | All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Procuring Entity if the Contract is terminated because of the Contractor's default stated under GCC Sub Clause 73.1.  |
| <b>78. Frustration</b>           | 78.1 | If the Contract is frustrated by the occurrence of a situation of Force Majeure as defined in GCC Sub Clause 56, the Engineer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all works carried out before receiving it and for any work carried out afterwards to which a commitment was made.  |
| <b>79. Amendment to Contract</b> | 79.1 | The amendment to Contract shall generally include equitable adjustments in original Contract price, Delivery and Completion Schedule and, any other changes acceptable under the conditions of the Contract.  |
|                                  | 79.2 | The Procuring Entity shall amend the Contract, incorporating the changes approved in accordance with the Delegation of Financial Power or sub-delegation thereof and, introduced to the original terms and conditions of the Contract.  |
| <b>80. Compensation Events</b>   | 80.1 | <p>The following shall be Compensation Events:</p> <p>(a) The Procuring Entity does not give access to or possession of the Site or part of the Site by the Site Possession Date stated in the GCC Sub Clause 18.1;</p> <p>(b) The Procuring Entity modifies the Schedule of other Contractors in a way that affects the works of the Contractor under the Contract;</p> <p>(c) The Project Manager orders a delay or does not issue Drawings, Specifications, or instructions required for execution of the Works on time;</p> <p>(d) The Project Manager instructs the Contractor to</p>  |

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|                                |      | <p>uncover or to carry out additional tests upon work, which is then found to have no Defects;</p> <p>(e) The Project Manager unreasonably does not approve a subcontract to be let, if applicable;</p> <p>(f) Ground conditions are substantially more adverse than could reasonably have been assumed before issuance of the Notification of Award from the information issued to Tenderers (including the Site Investigation Reports), from information available publicly and from a visual inspection of the Site; Other Contractors, public authorities, utilities, or the Procuring Entity do not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor;</p> <p>(g) The advance payment is delayed;</p> <p>(h) The effects on the Contractor of any of the Procuring Entity's Risks;</p> <p>(i) The Project Manager unreasonably delays issuing a Completion Certificate;</p> <p>(j) A situation of Force Majeure has occurred, as defined in <b>GCC Clause</b> 56; and</p> <p>(k) Other Compensation Events described in the Contract or determined by the Project Manager in the <b>PCC</b> shall apply.</p> |
|                                | 80.2 | If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date shall be extended. The Project Manager shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended, only on justifiably acceptable grounds duly recorded.   |
|                                | 80.3 | As soon as the Contractor has provided information demonstrating the effect of each Compensation Event upon the Contractor's forecast cost, the Project Manager shall assess it, and the Contract Price shall be adjusted accordingly. If the Contractor's forecast is deemed unreasonable, the Project Manager shall adjust the Contract Price based on the Project Manager's own forecast. The Project Manager will assume that the Contractor will react competently and promptly to the event.   |
|                                | 80.4 | The Contractor shall not be entitled to compensation to the extent that the Procuring Entity's interests are adversely affected by the Contractor not having given early warning or not having cooperated with the Project Manager.  |
| <b>81. Contractor's Claims</b> | 81.1 | If the Contractor considers himself to be entitled to any extension of the Completion Time and/or any additional payment, under any Clause of these Conditions or otherwise in connection with the Contract, the Contractor shall give   |

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|                                   |      | notice to the Procuring Entity, describing the event or circumstance giving rise to the claim. The notice shall be given as soon as practicable, and not later than twenty-eight (28) days after the Contractor became aware, or should have become aware, of the event or circumstance  |
|                                   | 81.2 | If the Contractor fails to give notice of a claim within such period of twenty-eight (28) days, the Intended Completion Date shall not be extended, the Contractor shall not be entitled to additional payment, and the Procuring Entity shall be discharged from all liability in connection with the claim.  |
|                                   | 81.3 | Within forty-two (42) days after the Contractor became aware or should have become aware of the event or circumstance giving rise to the claim, or within such other period as may be proposed by the Contractor and approved by the Engineer, the Contractor shall send to the Engineer a fully detailed claim which includes full supporting particulars of the basis of the claim and of the extension of time and/or additional payment claimed, for settlement.   |
| <b>82. Settlement of Disputes</b> | 82.1 | <u>Amicable Settlement:</u><br>The Procuring Entity and the Contractor shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or its interpretation.  |
|                                   | 82.2 | <u>Adjudication</u><br><br>(a) If the Contractor /Procuring Entity believe that amicable settlement of dispute is not possible between the two parties, the dispute shall be referred to the Adjudicator within fourteen (14) days of first written correspondence on the matter of disagreement;<br><br>(b) The Adjudicator named in the PCC is jointly appointed by the parties. In case of disagreement between the parties, the Appointing Authority designated in the PCC shall appoint the Adjudicator within fourteen (14) days of receipt of a request from either party;<br><br>(c) The Adjudicator shall give its decision in writing to both parties within twenty-eight (28) days of a dispute being referred to it;<br><br>(d) The Contractor shall make all payments (fees and reimbursable expenses) to the Adjudicator, and the Procuring Entity shall reimburse half of these fees through the regular progress payments;<br><br>(e) Should the Adjudicator resign or die, or should the Procuring Entity and the Contractor agree that the Adjudicator is not functioning in accordance with the provisions of the Contract; a new Adjudicator will be jointly appointed by the Procuring Entity |

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|  |      | and the Contractor. In case of disagreement between the Procuring Entity and the Contractor the Adjudicator shall be designated by the Appointing Authority designated in the PCC at the request of either party, within fourteen (14) days of receipt of a request from either Party.  |
|  | 82.3 | <p><u>Arbitration</u></p> <p>(a) If the Parties are unable to reach a settlement under GCC Clause 82.1 or 82.2 within twenty-eight (28) days of the first written correspondence on the matter of disagreement or within twenty-eight (28) days of the date of decision made by the Adjudicator as per GCC Sub Clause 82.2(c), then either Party may give notice to the other party of its intention to commence arbitration in accordance with GCC Sub Clause 82.3(b);</p> <p>(b) The arbitration shall be conducted in accordance with the Arbitration Act (Act No 1 of 2001) of Bangladesh as at present in force and in the place shown in the PCC.</p> |

#### Section 4. Particular Conditions of Contract

| GCC Clause  | Amendments of, and Supplements to, Clauses in the General Conditions of Contract   |
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| GCC 1.1(l)  | <p>The Procuring Entity is:</p> <p>Engr. Sujit Kumar Biswash, Senior General Manager</p> <p>Address: Bhola Palli Bidyut Samity, Banglabazar, Bhola.</p> <p>Telephone: 01769-400014</p> <p>Email: <a href="mailto:bhopbs@gmail.com">bhopbs@gmail.com</a></p>                                      |
| GCC 1.1 (g) | <p>“Effective Date” shall mean the “Effective Date” for phase 1 under this contract and shall mean the date of contract signing or from date of signing of 1<sup>st</sup> Tri-partite agreement among Utility, roof top owner/authority and contractor <b>[to be decided by the Utility]</b></p> |
| GCC 1.1(tt) | <p>The Site is located at <b>LALMOHON UPAZILLA</b>: List of prospective sites are included in the Appendix- A of the tender Document.</p>  |

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| GCC 3.1    | <p>For <b>notices</b>, the Procuring Entity's contact details shall be:<br/> Engr. Sujit Kumar Biswash, Senior General Manager<br/> Address: <b>Bhola Palli Bidyut Samity</b>,<br/> Telephone: 01769-400014<br/> Email: <a href="mailto:bhopbs@gmail.com">bhopbs@gmail.com</a></p> <p>For <b>notices</b>, the Contractor's contact details shall be:<br/> Attention:<br/> Address:<br/> Telephone:<br/> Facsimile number:<br/> Electronic mail address:</p> |
| GCC 7.1(k) | <p>The following documents shall also be part of the Contract:</p> <ul style="list-style-type: none"> <li>• Bank Guarantee for Performance Security.</li> <li>• Relevant written correspondences and meeting minutes prior to signing of the Contract agreement.</li> <li>• Applicable local Law &amp; Acts.</li> </ul>   |
| GCC 9.1    | <p>The Contractor or the Subcontractor that is a national of, or registered in, the following countries are not eligible: Israel.</p>   |
| GCC 9.2    | <p>Materials, Equipment and associated services from the following counties are not eligible: Israel.</p>   |
| GCC 16.1   | <p>Nominated Subcontractor(s) named below: N/A, but the contractor will be allowed to engage subcontractor(s) as specified in the form PG5A-2c.</p> <p>shall be entitled to execute the following specific components of the Works:<br/>None</p>  |
| GCC 18.1   | <p>Possession of the Site or part(s) of the Site, to the Contractor shall be given on the following date(s);</p> <p>From the date of tri-party agreement among Bhola Palli Bidyut Samity, Banglabazar, Bhola , contractor and site owner/representative</p>   |
| GCC 27.3   | <p>The Contractor shall own and operate the plant; hence spare parts, if required, will be entirely the contractor's responsibility and they shall procure it at their own cost following the tender specification or as per employer's requirement.</p>  |

|            |  |
|------------|--|
| GCC 28.1   | The Contractor shall commence work on the Facilities within <i>07 (Seven) days</i> from the Effective Date for determining Time for Completion as specified in the Contract Agreement.                                       |
| GCC 29.1   | The time for completion of the whole of the facilities (i.e. Phase 01) within 06 months from the effective date as described in the contract agreement.  |
| GCC 43.2.2 | The Guarantee Test of the Facilities of a site shall be successfully completed before corresponding COD.   |
| GCC 44.3   | No bonus will be given for earlier Completion of the Facilities or part thereof.   |
| GCC 45.3   | The amount to be withheld for late submission of an updated Programme is: N/A  |
| GCC 45.10  | The critical components covered under the extended defect liability are: <ol style="list-style-type: none"> <li>1. Solar PV Panel.</li> <li>2. Inverter</li> </ol> <p>The period shall be: Up to completion of Phase 02.</p> |
| 48.1 (b)   | The multiplier of the Contract Price is: 01 (one)  |
| GCC 52.1   | The insurance cover shall be: The contractor shall ensure insurance for the facilities to be established under this contract along with contractor's manpower to be engaged.   |
| GCC 60.2   | The Contract Price shall be adjusted in accordance with the provisions of the Appendix to the Contract Agreement titled Adjustment Clause.: N/A  |
| GCC 60.4   | The Contract is not subject to price adjustment.   |
| GCC 61.1   | The original Contract price is:  |
| GCC 61.1   | The Advance Payment shall be Tk <i>[insert amount]</i> and shall be paid to the Contractor not later than <i>[insert date]</i> . <b>Not Applicable</b>   |
| GCC 61.5   | None   |
| GCC 63.1   | The Contract Period shall be divided into 02 (two) distinct phases. Performance Security shall be applicable to Phase 01 only in the following manner:   |

|                 |  |
|-----------------|--|
|                 | <ul style="list-style-type: none"> <li>• Duration of this phase shall be 06 months from the date of effective date.</li> <li>• The Contractor shall submit a Performance Security of Tk. 20,68,000.00 only or equivalent USD.</li> <li>• The Performance Security shall remain valid until the Commercial Operation Date (COD).</li> <li>• Performance Security must be endorsed by any Schedule Bank of Bangladesh</li> </ul>   |
| <b>GCC 63.4</b> | The performance security shall not be reduced on the date of the Operational Acceptance:   |
| <b>GCC 63.4</b> | Performance security shall be as per clause GCC 63.1.  |
| <b>GCC 64.1</b> | <p>The portion of payments to be retained is five (5) percent of the contract price.</p> <p>In case of front loading or unbalanced price loading, PE may extend this proportion up to twenty (20) percent of the contract price. In such cases, money retained for meeting any claims during Defect Liability Period shall be half of the total money retained but not less than five (5) percent of the contract price. :</p> <p><b>This clause is Not applicable (NA) for this tender</b></p>  |
| <b>GCC 68</b>   | <p><b>Liquidated Damage (LD):</b></p> <p><b><u>Phase 1:</u></b></p> <p>To ensure timely completion of Phase 1 of the project i.e. within 06 months from effective date, <b>liquidated damages</b> will be imposed for project delays. If Phase 1 is not completed within the stipulated timeline, the contractor will be liable to pay for delay of the amount of BDT 1,000 per day per MWp, capped at a maximum equivalent to 365 days of damages.</p> <p><b><u>Phase 2:</u></b></p> <p>If the actual annual generation of the Rooftop Solar System for year n falls below the Guaranteed Generation for year n, as guaranteed by the Contractor in Annex 8, the Contractor shall be liable to pay Liquidated Damages (LD) at the following rate :</p> <p><b><u>Formula:</u></b></p> $LD \text{ (in BDT)} = (\text{Guaranteed Generation for Year n} - \text{Actual Generation for Year n}) \times \text{Proposed Tariff} \times 50\%$ <p>The Liquidated Damages shall be adjusted against the Contractor's 1<sup>st</sup> month's invoice for Year (n+1). If the LD amount exceeds the amount of the 1<sup>st</sup> month invoice, the remaining portion of the LD shall be adjusted from the next invoices.</p> <p>For the purpose of calculating Liquidated Damages under Phase 2 (Operation &amp;</p> |

|                            |   |
|----------------------------|---|
|                            | Maintenance), the Guaranteed Generation provided by the Tenderer shall be calculated on the basis of 345 days per year instead of 365 days. Any period affected by Force Majeure events shall be excluded from the said 345 days. |
| <b>GCC 80.1(k)</b>         | The following additional events shall also be the Compensation Events: None<br><i>[list events or state "none"]</i>   |
| <b>GCC 82.2(b)&amp;(e)</b> | The Adjudicator jointly appointed by the Parties is:<br>Name:<br>Address:<br>Tel/Cell No:<br>Fax No:<br>e-mail address:   |
|                            | In case of disagreement between the parties, the Appointing Authority for the Adjudicator is the President of the Institution of Engineers, Bangladesh (IEB).   |
| <b>GCC 82.3</b>            | As per Bangladesh Arbitration Act, 2001. Place: Dhaka, Bangladesh.  |

## Appendix to the Tender

[In Tables below, the Procuring Entity shall indicate the source and base values with dates of Indexes, unless otherwise instructed to be quoted by the Tenderer, for the different Cost Components and mention its Weightings or Coefficients]

**Table 1.1: Price Adjustment Data: N/A**

[ ITT Sub Clause 26: To be provided by the Procuring Entity]

| Index Descriptions | Base Value | Sources of Index |
|--------------------|------------|------------------|
|                    |            |                  |
|                    |            |                  |
|                    |            |                  |
|                    |            |                  |
|                    |            |                  |
|                    |            |                  |

**Note:**

1. The sources of Indexes and its values with dates shall be Bangladesh Bureau of Statistics (BBS) unless otherwise mentioned by the Procuring Entity or instructed to be quoted by the Tenderer.
2. The Procuring Entity may require the Tenderer to justify its proposed Indexes, if quoted by the Tenderer.
3. The Base Value of the Indexes shall be those prevailing twenty-eight (28) days prior to the deadline for submission of the Tenders.

**Table 1.2: Price Adjustment Data: N/A**

[GCC Sub Clause 67: To be provided by the Procuring Entity]

| Item Group | Bill No. if applicable | Index Descriptions | Coefficients or Weightings for non-adjustable Cost Component | Coefficients or Weightings for adjustable Cost Components |   |   |   |   |   |   |   |   |   | Total |   |
|------------|------------------------|--------------------|--|---|---|---|---|---|---|---|---|---|---|-------|---|
|            |                        |                    |  | a   | b | c | d | e | f | g | h | i | j |       |   |
|            |                        |                    |  |   |   |   |   |   |   |   |   |   |   |       | 1 |
|            |                        |                    |  |   |   |   |   |   |   |   |   |   |   |       | 1 |
|            |                        |                    |  |   |   |   |   |   |   |   |   |   |   |       | 1 |
|            |                        |                    |  |   |   |   |   |   |   |   |   |   |   |       | 1 |
|            |                        |                    |  |   |   |   |   |   |   |   |   |   |   |       | 1 |
|            |                        |                    |  |   |   |   |   |   |   |   |   |   |   |       | 1 |

**Note:**

The Weightings or Coefficients of the Cost Components shall be mentioned by the Procuring Entity based on the proportion of components involved in the items caused to be impacted by rise and fall in its prices.

**APPENDICES [These appendices shall be the part of the contract]**

- Appendix 1 - Terms and Procedures of Payment
- Appendix 2 - Price Adjustment
- Appendix 3 - Insurance Requirements
- Appendix 4 - Time Schedule
- Appendix 5 - List of Major Items of Plant and services and List of Approved Subcontractors
- Appendix 6 - Scope of Works and Supply by the Procuring Entity
- Appendix 7 - List of Documents for Approval or Review
- Appendix 8 - Functional Guarantees

## Appendix 1. Terms and Procedures of Payment

In accordance with the provisions of GCC Clause 61 (Terms of Payment), the Procuring Entity shall pay the Contractor in the following manner and at the following times, on the basis of the Price Breakdown given in the section on Price Schedules. Payments will be made in the currencies quoted by the Tenderer unless otherwise agreed between the parties. Applications for payment in respect of part deliveries may be made by the Contractor as work proceeds.

### Terms of Payment & Payment Procedures

Schedule No. 1 - Plant and Equipment Supplied from Abroad: N/A

Schedule No. 2 - Plant and Equipment Supplied from within the Employer's Country: N/A

Schedule No. 3 - Design Services: N/A

Schedule No. 4 - Civil works part: N/A

Schedule No. 5 - Installation and other Services: N/A

Schedule No. 6 - Grand Summary: N/A

Schedule No. 7 - Recommended Spare Parts: N/A

Schedule No. 8 - Proposed Tariff for 20 years:

The Contract Period shall be divided into two (02) distinct phases, Phase 01 & Phase 02:

### Phase 01 – Design, Procurement, and Implementation

- In this phase, the Contractor shall complete the detailed design, procurement and installation of the Solar PV System.
- The solar system design shall be submitted to and approved by Bhola palli Bidyut Samity prior to implementation of the Solar PV System.
- The duration of this phase shall be 06 months, counted from the date of effective date.
- No payment shall be made during this phase.

### Phase 02 – COD, Operation & Payment

- Duration of this phase shall be 20 (twenty) years, to be counted from the notification for commencement of Commercial Operation Date (COD).

- Payment shall be made on a monthly basis, calculated according to the actual energy generation delivered to Bhola palli Bidyut Samity based on energy meter reading at each site after subtracting the amount for roof rent and applicable income tax. Payment shall be made within 45 (forty-five) days from the date of proper submission of the Contractor's monthly energy invoice, duly supported by energy meter readings at each site.
- The principle of "No Generation, No Payment" shall be applied.

## Appendix 2. Price Adjustment: N/A

Prices payable to the Contractor, in accordance with the Contract, shall be subject to adjustment during performance of the Contract to reflect changes in the cost of labor and material components, in accordance with the following formula:

The Contract is subject to price adjustment applying the following formulae and the weightings or coefficients:

*[Price Adjustment Formulae to be applicable if stated under ITT Sub Clause 26.9 shall be specified here]*

***Example:***

$$P = A + a (Lm/Lo) + b (BIm/BIo) + c (CEm/CEo) + d (RSm/RSo) + e (STm/STo) + f (BRm/BRo) + g (MI m/MIo) + h (FU m/FUo) + etc$$

where;

*L= Labor, BI=Bitumen, CE=Cement, RS=Reinforcing Steel, ST=Stone, BR=Bricks, MI=Miscellaneous, FU= Fuel ]*

***Weighting or Coefficient A equals between 0.10 and 0.15 and, B (a+b+c+d+e+f+g+h+etc) equals between 0.90 and 0.85.***

[insert figure] non-adjustable component (coefficient A)

[insert figure] adjustable component (coefficient B)

***[The sum of A+B shall equal ONE (1). It is usual to have value of A between 0.10 and 0.15 and that of B between 0.90 and 0.85. Breakdown of B shall be provided in Appendix to the Tender.]***

*[delete as appropriate]*

The date of adjustment shall be the mid-point of the period of manufacture or installation of component or Plant.

The following conditions shall apply:

- (a) No price increase will be allowed beyond the original delivery date unless covered by an extension of time awarded by the Procuring Entity under the terms of the Contract. No price increase will be allowed for periods of delay for which the Contractor is responsible. The Procuring Entity will, however, be entitled to any price decrease occurring during such periods of delay.
- (c) No price adjustment shall be payable on the portion of the Contract price paid to the Contractor as an advance payment.

*For complex plant supply and installation involving several sources of supply and/or a substantial amount of installation works, a family of formulas may be necessary, with provision for the usage of Contractor's equipment in the works formula.*

### **Appendix 3. Insurance Requirements**

The Contractor shall obtain required insurance from Sadharan Bima Corporation of Bangladesh.

## Insurances to be Taken Out by The Procuring Entity: N/A

*If the Procuring Entity is proposing to take out any or all of the above insurances itself, or any other insurances in respect of the Facilities, either in its own name or in the joint names of itself and the Contractor, it shall give details below prior to issuing the tender documents. Under the terms of the Contract, the Contractor and the Contractor's Subcontractors shall be named as co-insured under all such policies.*

The Procuring Entity shall at its expense take out and maintain in effect during the performance of the Contract the following insurances.

Details:

| <b>Amount</b>             | <b>Deductible limits</b>  | <b>Parties insured</b> | <b>From</b>    | <b>To</b>      |
|---------------------------|---------------------------|------------------------|----------------|----------------|
| <b>[in currency(ies)]</b> | <b>[in currency(ies)]</b> | <b>[names]</b>         | <b>[place]</b> | <b>[place]</b> |
|                           |                           |                        |                |                |
|                           |                           |                        |                |                |

## Appendix 4. Time Schedule

The Contract Period shall be divided into two (02) distinct phases, Phase 01 & Phase 02:

### Phase 01 – Design, Procurement, and Implementation

- In this phase, the Contractor shall complete the detailed design, procurement and installation of the Solar PV System.
- The solar system design shall be submitted to and approved by Bhola Palli Bidyut Samity, Banglabazar, Bhola prior to implementation of the Solar PV System.
- The duration of this phase shall be 06 months, counted from the date of from effective date.

### Phase 02 – COD, Operation & Payment

- Duration of this phase shall be 20 (twenty) years, to be counted from the notification for commencement of Commercial Operation Date (COD).
- The principle of “No Generation, No Payment” shall be applied.

## Appendix 5. List of Major Items of Plant and Services and List of Approved Subcontractors

Approved/nominated subcontractors are not applicable. But the contractor will be allowed to engage subcontractors as specified in the form PG5A-2c.

A list of major items of plant and services is provided below.

The following manufacturers are approved for carrying out the item of the facilities indicated. Where more than one manufacturer is listed, the Employer is free to choose between them. In accordance with GCC Sub-Clause 32.1, the Contractor is free to submit proposals for manufacturers for additional items from time to time. No manufacturers shall be placed with any such manufacturers for additional items until the manufacturers have been approved in writing by the Employer and their names have been added to this list of Approved manufacturers.

| Major Items of Plant and Services   | Manufacturer(s) | Country of Origin |
|---|-----------------|-------------------|
| Solar PV Panel  |                 |                   |
| On-Grid Solar Inverter  |                 |                   |
| PV Mounting Structures  |                 |                   |
| 415 Volt 200/5, 400/5 Amps or any other ratio Indoor Type Single Phase Current Transformer and corresponding Metering Panel |                 |                   |
| DC and AC Cable, Combiner Box / Junction Box, Circuit Breakers, Lighting and Surge Protection.                              |                 |                   |
| Energy Meter  |                 |                   |
| AMR Meter Communication Modem   |                 |                   |
| Data Acquisition System for AMR Metering  |                 |                   |
| Servers for Data Acquisition System   |                 |                   |

## Appendix 6. Scope of Works and Supply by the Procuring Entity: NOT APPLICABLE FOR THIS TENDER

*Prior to issuing the tender documents, the Procuring Entity shall indicate in this Appendix details of all personnel and Facilities it will provide for use by the Contractor and indicate, where applicable, the charges that it will make in respect of their use.*

*The Procuring Entity shall also identify any part(s) of the facilities it intends to carry out itself (or by other contractors), and any plant, equipment, or materials that it proposes to purchase itself and supply to the Contractor for incorporation in the facilities, indicating, where applicable, the charges that it will make in respect thereof.*

The following personnel, facilities, works and supplies shall apply as appropriate.

All personnel, facilities, works and supplies will be provided by the Procuring Entity in good time so as not to delay the performance of the Contractor, in accordance with the approved Time Schedule and Program of Performance pursuant to GCC Sub-Clause 37.2.

Unless otherwise indicated, all personnel, facilities, works and supplies will be provided free of charge to the Contractor.

| Personnel | Charge to Contractor (if any) |
|-----------|-------------------------------|
|           |                               |
|           |                               |

| Facilities | Charge to Contractor (if any) |
|------------|-------------------------------|
|            |                               |
|            |                               |

| Works | Charge to Contractor (if any) |
|-------|-------------------------------|
|       |                               |
|       |                               |

| Supplies | Charge to Contractor (if any) |
|----------|-------------------------------|
|          |                               |
|          |                               |

## **Appendix 7. List of Documents for Approval or Review**

Pursuant to GCC Sub-Clause 35.3.1, the Contractor shall prepare, or cause its Subcontractor to prepare, and present to the Project Manager in accordance with the requirements of GCC Sub-Clause 31.2 (Program of Performance), the following documents for

### **(A) Approval**

1. Guaranteed Technical Particulars (GTP) & Drawing of all Items.
2. Integration Impact Analysis Report in distribution network of Bhola Palli Bidyut Samity,
3. Any other technical documents as required by Bhola Palli Bidyut Samity.

### **(B) Review**

1. Any technical document as required by Bhola Palli Bidyut Samity,

## Appendix 8. Functional Guarantees: N/A

### 1. General

This Appendix sets out

- (a) the functional guarantees referred to in GCC Clause 46 (Functional Guarantees)
- (b) the preconditions to the validity of the functional guarantees, either in production and/or consumption, set forth below
- (c) the minimum level of the functional guarantees
- (d) the formula for calculation of liquidated damages for failure to attain the functional guarantees.

### 2. Preconditions

The Contractor gives the functional guarantees (specified herein) for the facilities, subject to the following preconditions being fully satisfied: *[ List any conditions for the carrying out of the Guarantee Test referred to in GCC Sub-Clause 43.2]*

### 3. Functional Guarantees

Subject to compliance with the foregoing preconditions, the Contractor guarantees as follows:

- 3.1 **Production Capacity** *[List here the production capacity that the Contractor is to guarantee, making sure to use, as functional guarantees, the figures offered by the Contractor in its tender]*
- 3.2 **Raw Materials and Utilities Consumption** *[List here the guaranteed items of consumption per unit of production (e.g., kg, tons, kcal, kWh, etc.) that the Contractor is to guarantee, making sure to use, as functional guarantees, the figures offered by the Contractor in its tender]*

### 4. Failure in Guarantees and Liquidated Damages

#### 4.1 Failure to Attain Guaranteed Production Capacity

If the production capacity of the facilities attained in the guarantee test, pursuant to GCC Sub-Clause 43.2, is less than the guaranteed figure specified in para. 3.1 above, but the actual production capacity attained in the guarantee test is not less than the minimum level specified in para. 4.3 below, and the Contractor elects to pay liquidated damages to the Procuring Entity in lieu of making changes, modifications and/or additions to the Facilities, pursuant to GCC Sub-Clause 46.3, then the Contractor shall pay liquidated damages at the rate of *[amount in the contract currency]* for every complete one percent (1%) of the deficiency in the production capacity of the Facilities, or at a proportionately reduced rate for any deficiency, or part thereof, of less than a complete one percent (1%).

#### **4.2 Raw Materials and Utilities Consumption in Excess of Guaranteed Level**

*[To be specified in the appropriate wording for the type of facilities if there are consumption guarantee]*

If the actual measured figure of specified raw materials and utilities consumed per unit (or their average total cost of consumption) exceeds the guaranteed figure specified in para. 3.2 above (or their specified average total cost of consumption), but the actual consumption attained in the guarantee test, pursuant to GCC Sub-Clause 43.2, is not more than the maximum level specified in para. 4.3 below, and the Contractor elects to pay liquidated damages to the Procuring Entity in lieu of making changes, modifications and/or additions to the Facilities pursuant to GCC Sub-Clause 46.3, then the Contractor shall pay liquidated damages at the rate of *[amount in the contract currency]* for every complete one percent (1%) of the excess consumption of the Facilities, or part thereof, of less than a complete one percent (1%).

*[ The rate of liquidated damages specified in paras. 4.1 and 4.2 above shall be at least equivalent to the rate specified in Section 3 (General Conditions of Contract) for the comparison of functional guarantees provided by the Tenderers]*

#### **4.3 Minimum Levels**

Notwithstanding the provisions of this paragraph, if as a result of the guarantee test(s), the following minimum levels of performance guarantees (and consumption guarantees) are not attained by the Contractor, the Contractor shall at its own cost make good any deficiencies until the Facilities reach any of such minimum performance levels, pursuant to GCC Sub-Clause 46.2:

- (a) production capacity of the Facilities attained in the guarantee test: ninety-five percent (95%) of the guaranteed production capacity

and/or

- (b) average total cost of consumption of all the raw materials and utilities of the Facilities: one hundred and five percent (105%) of the guaranteed figures.

#### **4.4 Limitation of Liability**

Subject to para. 4.3 above, the Contractor's aggregate liability to pay liquidated damages for failure to attain the functional guarantees shall not exceed *[ the percentage specified shall not exceed ten percent (10%) ]*. percent ( . . . %) of the Contract price

## Section 5. Tender and Contract Forms

| Form                  | Title  |
|-----------------------|--|
| <b>Tender Forms</b>   |  |
| PG5A-1a               | Tender Submission Letter for Technical Offer   |
| PG5A-1b               | Tender Submission Letter for Financial Offer   |
| PG5A-1c               | Letter of Authorization  |
| PG5A-2a               | Tenderer Information   |
| PG5A-2b               | JV Partner Information ( <i>if applicable</i> )                                      |
| PG5A-2c               | Subcontractor Information ( <i>if applicable</i> )                                   |
| PG5A-3                | Price Schedule for Plant and Services  |
| PG5A-4                | Technical Proposal   |
| PG5A-5                | Specifications Submission and Compliance Sheet                                       |
| PG5A-6                | Manufacturer's Authorisation Letter  |
| PG5A-7                | Bank Guarantee for Tender Security ( <i>when this option is chosen</i> )             |
| PG5A-8                | Bank's Letter of Commitment for Line of Credit ( <i>when this option is chosen</i> ) |
| <b>Contract Forms</b> |  |
| PG5A-9                | Notification of Award  |
| PG5A-10               | Contract Agreement   |
| PG5A-11               | Bank Guarantee for Performance Security ( <i>when this option is chosen</i> )        |
| PG5A-12               | Bank Guarantee for Advance Payment ( <i>if applicable</i> )                          |
| PG5A-13               | Bank Guarantee for Retention Money Security ( <i>when this option is chosen</i> )    |
| PG5A-14               | Contract Amendment   |

Forms PG5A-1 to PG5A-8 are the contents of the Tender Forms and should be completed as stated in ITT Clauses 23.

Forms PG5A-9 to PG5A-14 are the contents of the Contract Forms as stated in GCC Clause 7.

## ***Tender Submission Letter for Technical Offer (Form PG5A-1a)***

*[This format shall be completed and signed by the Tenderer or his/her Authorised Signatory, without alterations, on the Letter-head pad of the Tenderer]*

|   |                          |
|---|--------------------------|
| To:<br><i>[Contact Person]</i><br><i>[Name of the Procuring Entity]</i><br><i>[Address of the Procuring Entity]</i> | Date:                    |
| Invitation for Tender No:   | <i>IFT No.</i> _____     |
| Tender Package No:  | <i>Package No.</i> _____ |
| Lot No: <i>(when applicable)</i>  | <i>Lot No.</i> _____     |

We, the undersigned, offer to design, manufacture, test, deliver, install, pre-commission and commission in conformity with the Tender Document, the following Plant and Services, viz:

|  |
|--|
|  |
|--|

In signing this letter, and in submitting our Tender, we also confirm that:

- (a) our Tender shall be valid for the period stated in the Tender Data Sheet (ITT Sub Clause 32.1) and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (b) a Tender Security is attached in the form of a *[state Pay Order, Bank Draft, Bank Guarantee]* in the amount stated in the Tender Data Sheet (ITT Sub Clause 34.1) and valid for a period of twenty-eight (28) days beyond the Tender Validity date;
- (c) we have examined and have no reservations to the Tender Document, issued by you on *[insert date]*; including Addendum to Tender Document No(s) *[state numbers]*, issued in accordance with the Instructions to Tenderers (ITT Clause 11). *[insert the number and issuing date of each addendum; or delete this sentence if no Addendum has been issued]*;
- (d) we, including as applicable, any JV partner or Subcontractor for any part of the contract resulting from this Tender process, have nationalities from eligible countries, in accordance with ITT Sub Clause 5.1;
- (e) we are submitting this Tender as a sole Tenderer in accordance with ITT Sub Clause 19.1  
*or*  
 we are submitting this Tender as the partners of a JV, comprising the following other partners in accordance with ITT Clause 17;

|   | Name of Partner | Location & District of Partner |
|---|-----------------|--------------------------------|
| 1 |                 |                                |
| 2 |                 |                                |
| 3 |                 |                                |
| 4 |                 |                                |

(f) *we are not a Government owned entity as defined in ITT Sub Clause 5.10*  
or  
*we are a Government owned entity, and we meet the requirements of ITT Sub Clause 5.10;*

(g) we, including as applicable any JV partner, declare that we are not associated, nor have been associated in the past, directly or indirectly, with a consultant or any other entity that has prepared the design, specifications and other documents in accordance with ITT Sub Clause 5.6;

(h) we, including as applicable any JV partner or Subcontractor for any part of the contract resulting from this Tender process, have not been declared ineligible by the Government of Bangladesh on charges of engaging in corrupt, fraudulent, collusive, coercive or obstructive practices in accordance with ITT Sub Clause 5.7;

(i) furthermore, we are aware of ITT Clause 4 concerning such practices and pledge not to indulge in such practices in competing for or in executing the Contract;

(j) we intend to subcontract an activity or part of the Works, in accordance with ITT Clause 18.1 to the following Subcontractor(s);

| Activity or part of the Plant and services | Name of Subcontractor with Location and District |
|--|--|
|  |  |
|  |  |
|  |  |

(k) we, including as applicable any JV partner, confirm that we are not currently suspended or debarred in connection with ITT Clause 5.8,

(l) we are not participating as Tenderer in more than one Tender in this Tendering process. We understand that your written Notification of Award shall constitute the acceptance of our Tender and shall become a binding Contract between us, until a formal Contract is prepared and executed;

(m) we, including as applicable any JV partner, confirm that we do not have a record of insolvency, receivership, bankrupt or being wound up, our business activities were not been suspended, and it was not been the subject of legal proceedings in accordance with ITT Sub Clause 5.9;

(n) we, including as applicable any JV partner, confirm that we have fulfilled our obligations to pay taxes and social security contributions applicable under the relevant national laws and regulations of Bangladesh in accordance with ITT Sub Clause 5.5;

(o) we understand that you reserve the right to reject all the Tenders or annul the Tender proceedings, without incurring any liability to Tenderer, in accordance with ITT Clause 60.

|  |  |
|--|--|
| Signature:   | <i>[insert signature of authorised representative of the Tenderer]</i> |
| Name:  | <i>[insert full name of signatory with National ID Number]</i>         |
| In the capacity of:  | <i>[insert capacity of signatory]</i>                                  |
| Duly authorised to sign the Tender for and on behalf of the Tenderer |  |

*[If there is more than one (1) signatory, or in the case of a JV, add other boxes and sign accordingly].*

**Attachment 1:**

[ITT Sub Clause 39.4]

Written confirmation authorising the above signatory(ies) to commit the Tenderer

*[and, if applicable]*

**Attachment 2:**

[ITT Sub Clause 28.2(b)]

Copy of the JV Agreement / Letter of Intent to form JV with draft proposed Agreement

## ***Tender Submission Letter for Financial Offer (Form PG5A-1b)***

*[This format shall be completed and signed by the Tenderer or his/her Authorised Signatory, without alterations, on the Letter-head pad of the Tenderer]*

|   |                   |
|---|-------------------|
| To:<br><i>[Contact Person]</i><br><i>[Name of the Procuring Entity]</i><br><i>[Address of the Procuring Entity]</i> | Date:             |
| Invitation for Tender No:   | IFT No. _____     |
| Tender Package No:  | Package No. _____ |
| Lot No: ( <i>when applicable</i> )  | Lot No. _____     |

We, the undersigned, offer to design, manufacture, test, deliver, install, pre-commission and commission in conformity with the Tender Document, the following Plant and Services, viz:

|  |
|--|
|  |
|--|

In accordance with ITT Clause 26 and 27, the following price applies to our Tender:

|   |  |
|---|--|
| The Tender price is:<br>(ITT Sub Clause 26.4 and 27)  | Amount _____ per kWh<br><i>[in figures]</i><br>Amount _____ per kWh<br><i>[in words]</i> |
| Plant (including Mandatory Spare Parts)<br>Supplied from abroad: Not Applicable                                   | Amount _____<br><i>[in figures]</i><br>Amount _____<br><i>[in words]</i>                 |
| Plant (including Mandatory Spare Parts)<br>supplied from within the Procuring Entity's<br>Country: Not Applicable | Tk. _____<br><i>[in figures]</i><br>Taka _____<br><i>[in words]</i>                      |
| Design Services: Not Applicable   | Amount _____<br><i>[in figures]</i><br>Amount _____<br><i>[in words]</i>                 |
| Installation and Other Services: Not Applicable   | Amount _____<br><i>[in figures]</i><br>Amount _____<br><i>[in words]</i>                 |
| Recommended Spare parts Price<br>(If economic Factor is applicable): Not Applicable                               | Amount _____<br><i>[in figures]</i><br>Amount _____                                      |

|  |  |
|--|--|
|  | [in words]   |
| The advance payment (when applicable) is:<br><i>[insert the amount based on percentage of the Tender Price]</i><br>(GCC Sub Clause 61.1): Not Applicable | Taka _____<br><i>[in words]</i><br>Taka _____<br><i>[in words]</i> |
| and we shall accordingly submit an Advance Payment Guarantee in the format shown in Form PW3A-11.  |  |
| In accordance with ITT Clause 28, the following discounts shall apply to our Tender:   |  |
| The unconditional discount proposed in this package/Lot/other lot(s) of the Tender is:   | In Percentage (%).-----  |
| The discount shall be equally applicable on all the items of Schedule of requirements within each lot after arithmetical correction.                     |  |

In

signing this letter, and in submitting our Tender, we also confirm that:

- (a) our Tender shall be valid for the period stated in the Tender Data Sheet (ITT Sub Clause 32.1) and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (b) a Tender Security is attached in the form of a *[state Pay Order, Bank Draft, Bank Guarantee]* in the amount stated in the Tender Data Sheet (ITT Sub Clause 34.1) and valid for a period of twenty-eight (28) days beyond the Tender Validity date;
- (c) if our Tender is accepted, we commit to furnishing a Performance Security within the time stated under ITT Sub Clause 67.2 in the amount stated in the Tender Data Sheet (ITT Sub Clause 66.1) and in the form specified in the Tender Data Sheet (ITT Sub Clause 66.1) valid for a period of twenty-eight (28) days beyond the date of issue of the Completion Certificate of the Works;
- (d) we have examined and have no reservations to the Tender Document, issued by you on *[insert date]*; including Addendum to Tender Document No(s) *[state numbers]*, issued in accordance with the Instructions to Tenderers (ITT Clause 11). *[insert the number and issuing date of each addendum; or delete this sentence if no Addendum has been issued]*;
- (e) we, including as applicable, any JV partner or Subcontractor for any part of the contract resulting from this Tender process, have nationalities from eligible countries, in accordance with ITT Sub Clause 5.1;
- (f) we are submitting this Tender as a sole Tenderer in accordance with ITT Sub Clause 19.1

or

we are submitting this Tender as the partners of a JV, comprising the following other partners in accordance with ITT Clause 17;

|   | Name of Partner | Location & District of Partner |
|---|-----------------|--------------------------------|
| 1 |                 |                                |
| 2 |                 |                                |
| 3 |                 |                                |

|   |  |  |
|---|--|--|
| 4 |  |  |
|---|--|--|

- (g) *we are not a Government owned entity as defined in ITT Sub Clause 5.10*  
*or*  
*we are a Government owned entity, and we meet the requirements of ITT Sub Clause 5.10;*
- (h) we, including as applicable any JV partner, declare that we are not associated, nor have been associated in the past, directly or indirectly, with a consultant or any other entity that has prepared the design, specifications and other documents in accordance with ITT Sub Clause 5.6;
- (i) we, including as applicable any JV partner or Subcontractor for any part of the contract resulting from this Tender process, have not been declared ineligible by the Government of Bangladesh on charges of engaging in corrupt, fraudulent, collusive, coercive or obstructive practices in accordance with ITT Sub Clause 5.7;
- (j) furthermore, we are aware of ITT Clause 4 concerning such practices and pledge not to indulge in such practices in competing for or in executing the Contract;
- (k) we intend to subcontract an activity or part of the Works, in accordance with ITT Clause 18.1 to the following Subcontractor(s);

| Activity or part of the Plant and Services | Name of Subcontractor with Location and District |
|--|--|
|  |  |
|  |  |
|  |  |

- (l) we, including as applicable any JV partner, confirm that we are not currently suspended or debarred in connection with ITT Clause 5.8,
- (m) we are not participating as Tenderer in more than one Tender in this Tendering process. We understand that your written Notification of Award shall constitute the acceptance of our Tender and shall become a binding Contract between us, until a formal Contract is prepared and executed;
- (n) we, including as applicable any JV partner, confirm that we do not have a record of insolvency, receivership, bankrupt or being wound up, our business activities were not been suspended, and it was not been the subject of legal proceedings in accordance with ITT Sub Clause 5.9;
- (o) we, including as applicable any JV partner, confirm that we have fulfilled our obligations to pay taxes and social security contributions applicable under the relevant national laws and regulations of Bangladesh in accordance with ITT Sub Clause 5.5;
- (p) we understand that you reserve the right to reject all the Tenders or annul the Tender proceedings, without incurring any liability to Tenderer, in accordance with ITT Clause 60.

|                     |  |
|---------------------|--|
| Signature:          | <i>[insert signature of authorised representative of the Tenderer]</i> |
| Name:               | <i>[insert full name of signatory with National ID Number]</i>         |
| In the capacity of: | <i>[insert capacity of signatory]</i>                                  |

|  |
|--|
| Duly authorised to sign the Tender for and on behalf of the Tenderer |
|--|

*[If there is more than one (1) signatory, or in the case of a JV, add other boxes and sign accordingly].*

**Attachment 1:**

[ITT Sub Clause 39.4]

Written confirmation authorising the above signatory(ies) to commit the Tenderer

*[and, if applicable]*

**Attachment 2:**

[ITT Sub Clause 28.2(b)]

Copy of the JV Agreement / Letter of Intent to form JV with draft proposed Agreement

## Letter of Authorization (Form PG5A-1A)

*[This is the format for the Letter of Authorization submitted by the tenderer in accordance with ITT Clause 39.4]*

Invitation for Tender No:

Date:

Tender Package No:

Lot No (*when applicable*)

To:

*[Name and address of the Procuring Entity]*

I/We, the undersigned, as the Sole Proprietor/Authorized Partner/Partner-in-Charge/Managing Director/Chairman/Chief Executive Officer of the firm titled *[Insert Name and Address of the firm]*, do hereby authorize *[Insert name, designation, address and NID of the person being authorized]* to sign all the documents related with the tender on behalf of the firm. His/her specimen signatures are given below:

(signature)

1.....

(signature)

2.....

(signature)

3.....

Date:

*(Signature)*

\_\_\_\_\_  
*Name, designation, address and NID*

Note:

1. Relevant documentary evidence of authorizing capacity of the signatory of this authorization letter shall be attached.

## Tenderer Information (Form PG5A-2)

*[This format shall be completed and signed by the Tenderer or his/her Authorised Signatory, without alterations, on the Letter-head pad of the Tenderer]*

Invitation for Tender No:

*IFT No]*

Tender Package No:

*[ Package No]*

Lot No (*when applicable*)

*[Lot No)]*

|  |   |
|--|---|
| 1. Eligibility Information of the Tenderer [ITT –Clauses 5 & 28] |   |
| 1.1  | Nationality of individual or country of registration  |
| 1.2  | Tenderer's legal title  |
| 1.3  | Tenderer's registered address   |
| 1.4  | Tenderer's legal status <i>[complete the relevant box]</i>  |
|  | Proprietorship<br>(Please mention name and NID of the proprietor)   |
|  | Partnership<br>(Please mention name and NID of the partners)  |
|  | Limited Liability Concern<br>(Please mention name and NID of CEO or MD and the Directors (members of Board of Directors) and/ or Shareholders (at least 10% shares) of the concern) |
|  | Government-owned Enterprise   |
|  | Others<br>[please describe, if applicable]  |
| 1.5  | Tenderer's year of registration   |
| 1.6  | Tenderer's authorised representative details  |
|  | Name  |
|  | National ID number  |
|  | Address   |
|  | Telephone / Fax numbers   |
|  | e-mail address  |
| 1.7  | Litigation [ITT Sub Cause 14.1(a)]  |

|   |   |  |   |                       |
|---|---|--|---|-----------------------|
|   | A. No pending litigation <input type="checkbox"/> [if no pending litigation put Tick Mark in Box]   |  |   |                       |
|   | B. Pending litigation   |  |   |                       |
|   | Month/Year  | Matter in dispute  | Value of Pending Claim in Taka                      |                       |
|   |   |  |   |                       |
|   |   |  |   |                       |
| 1.8   | Tenderer to attach photocopies of the original documents mentioned aside  |  | [All documents required under ITT Clauses 5 and 28] |                       |
| The following two information are applicable for National Tenderers   |   |  |   |                       |
| 1.9   | Tenderer's Value Added Tax Registration (VAT) Number  |  |   |                       |
| 1.10  | Tenderer's Tax Identification Number (TIN)  |  |   |                       |
| [The foreign Tenderers, in accordance with ITT Sub Clause 5.1, shall provide evidence by a written declaration to that effect to demonstrate that it meets the criterion] |   |  |   |                       |
| 2. Qualification Information of the Tenderer [ITT Clause 31]  |   |  |   |                       |
| 2.1   | General Experience in the Supply of Goods [State years of experience]   |  |   |                       |
| 2.2   | Specific Experience of satisfactory completion of supply of similar Goods   |  |   |                       |
|   | Contract No   | [ insert reference no] of [ insert year]   |   |                       |
|   | Name of Contract  | [insert name]  |   |                       |
|   | Role in Contract<br>[tick relevant box].  | Prime Contractor   | Subcontractor                                       | Management Contractor |
|   | Award date  | [insert date]  |   |                       |
|   | Completion date   | [insert date]  |   |                       |
|   | Total Contract Value  | [insert amount]  |   |                       |
|   | Procuring Entity's Name<br>Address<br>Tel<br><u>e-mail</u><br><br>Brief description with justifications of the similarity compared to the Procuring Entity's requirements | [state justification in support of its similarity compared to the proposed supply] |   |                       |

|     |   |          |               |
|-----|---|----------|---------------|
| 2.3 | Supply and/or production capacity of Goods are: |          |               |
|     | Year  | Quantity | Type of Goods |
|     |   |          |               |

|     |  |                     |                  |
|-----|--|---------------------|------------------|
| 2.4 | Liquid assets available [ITT Sub Clause 14.1(b)] |                     |                  |
|     | No   | Source of Financing | Amount Available |
|     |  |                     |                  |
|     |  |                     |                  |
|     |  |                     |                  |

In order to confirm the above statements, the Tenderer shall submit, as applicable, the documents mentioned in ITT Sub Clause 31.1(d)

|     |   |
|-----|---|
| 2.5 | Contact Details [ITT Sub Clause 31.1 (f)]   |
|     | Name, address, and other contact details of Tenderer Bankers and other Procuring Entity(s) that may provide references, if contacted by this Procuring Entity |

## ***JVCA Partner Information (Form PG5A-2b)***

*[This Form should be completed and signed by each JVCA partner without alterations, preferably on its Letter-Head Pad]*

↓

Invitation for Tender No:

[ IFT No]

Tender Package No:

Package No]

Lot No. (when applicable)

[ Lot No)]

|  |  |
|--|--|
| 1. Eligibility Information of the JVCA Partner [ITT -Clauses 5 & 28] |  |
| 1.1  | Nationality of individual or country of registration   |
| 1.2  | JVCA Partner's legal title   |
| 1.3  | JVCA Partner's registered address  |
| 1.4  | JVCA Partner's legal status <i>[complete the relevant box]</i>   |
|  | Proprietorship<br>(Please mention name and NID <i>(if applicable)</i> of the proprietor)   |
|  | Partnership<br>(Please mention name and NID <i>(if applicable)</i> of the partners)  |
|  | Limited Liability Concern<br>(Please mention name and NID <i>(if applicable)</i> of CEO or MD and the Directors (members of Board of Directors) and/ or Shareholders (at least 10% shares) of the concern) |
|  | Government-owned Enterprise  |
|  |  |
| 1.5  | JVCA Partner's year of registration  |
| 1.6  | JVCA Partner's authorised representative details   |
|  | Name   |
|  | National ID number / <i>Passport Number</i>  |
|  | Address  |
|  | Telephone / Fax numbers  |

|   |   |   |                                |   |
|---|---|---|--------------------------------|---|
|   | e-mail address  |   |                                |   |
| 1.7   | Litigation [ITT Cause 13]   |   |                                |   |
|   | A. No pending litigation <input type="checkbox"/> [if no pending litigation put Tick Mark in Box]   |   |                                |   |
|   | B. Pending litigation   |   |                                |   |
|   | Year  | Matter in dispute                                   | Value of Pending Claim in Taka | Value of Pending Claim as Percentage of Net Worth |
|   |   |   |                                |   |
|   |   |   |                                |   |
| 1.8   | JVCA Partner to attach photocopies of the original documents mentioned aside  | [All documents required under ITT Clauses 5 and 29] |                                |   |
| The following two information are applicable for national JV Partners only  |   |   |                                |   |
| 1.9   | JVCA Partner's Value Added Tax Registration (VAT) Number <i>(if applicable)</i>   |   |                                |   |
| 1.10  | JVCA Partner's Tax Identification Number (TIN) <i>(if applicable)</i>   |   |                                |   |
| [The foreign JVCA Partners, in accordance with ITT Sub Clause 5.1, shall provide evidence by a written declaration to that effect to demonstrate that it meets the criterion] |   |   |                                |   |
| 2.  | Key Activity(ies) for which it is intended to be joint ventured, if it can be specified [ITT Sub Clause 17.2]                                       |   |                                |   |
|   | Elements of Activity  | Brief description of Activity                       |                                |   |
|   |   |   |                                |   |
|   |   |   |                                |   |
| 3.  | Qualification Information of the JVCA Partners [ITT Clause 31]  |   |                                |   |
| 3.1   | General Experience in Construction Works of JVCA Partners [State years of experience]   |   |                                |   |
| 3.2   | Specific Experience in Construction Works of JVCA Partners<br>Completed Contracts of similar nature, complexity and methods/construction technology |   |                                |   |
|   | Contract No   | [ insert reference no] of [ insert year]            |                                |   |
|   | Name of Contract  | [insert name]                                       |                                |   |
|   | Role in Contract<br><i>[tick relevant box].</i>   | Prime Contractor                                    | Subcontractor                  | Management Contractor                             |
|   | Award date  | [insert date]                                       |                                |   |
|   | Completion date   | [insert date]                                       |                                |   |
|   | Total Contract Value  | [insert amount]                                     |                                |   |
|   | Procuring Entity's Name   |   |                                |   |
|   | Address   |   |                                |   |
|   | Tel / Fax   |   |                                |   |

|               |   |   |
|---------------|---|---|
| <u>e-mail</u> | Brief description with justifications of the similarity compared to the Procuring Entity's requirements | [state justification in support of its similarity compared to the proposed works] |
|---------------|---|---|

### 3.3 Average Annual Construction Turnover

*[Select one option from below and delete the italics]*

*[Option 1: Based on Profit and Loss Account or Audit Report duly conducted by Registered Chartered Accountancy Firm, Exchange Rate shall be rate at the end of the period reported by the concerned central bank of the country]*

| Period or Year | Amount and Currency | Amount in Equivalent BDT. |
|----------------|---------------------|---------------------------|
| 1              | 2                   | 3                         |
|                |                     |                           |
|                |                     |                           |

*Option 2: Based on total certified payments received for contracts in progress or completed under public sector for a period as stated under ITT Sub Clause 14.1(b) [applicable for local tenderer]*

| Sl. | Period or Year | Tender ID or Ref. No. | Received Date | Amount | Business Share | Turnover |
|-----|----------------|-----------------------|---------------|--------|----------------|----------|
| 1   | 2              | 3                     | 4             | 5      | 6              | 7        |
|     |                |                       |               |        |                |          |
|     |                |                       |               |        |                |          |
|     |                |                       |               |        |                |          |
|     |                |                       |               |        | Total          |          |
|     |                |                       |               |        | AACT           |          |

|  |   |                     |
|--|---|---------------------|
| 3.4  | Liquid assets available to meet the construction cash flow [ITT Sub Clause 14.1(b)]   |                     |
|  | No  | Source of Financing |
|  |   |                     |
|  |   |                     |
| In order to confirm the above statements, the JV Partners shall submit, as applicable, the documents mentioned in ITT Sub Clause 31.1(d) |   |                     |
| 3.5  | Contact Details [ITT Sub Clause 31.1 (f)]   |                     |
|  | Name, address, and other contact details of JV Partner's Bankers and other Procuring Entity(s) that may provide references, if contacted by this Procuring Entity |                     |
| 3.6  | Qualifications and experience of key technical and administrative personnel proposed for Contract administration and management [ITT Sub Clause 31.1(h)]          |                     |

|  | Name   | Position                                | Years of General Experience   | Years of Specific Experience |
|--|--|---|---|------------------------------|
|  |  |   |   |                              |
|  |  |   |   |                              |
| [JVCA Partners to complete details of as many personnel as are applicable. Each personnel listed above should complete the Personnel Information (Form PG5A-2b)] |  |   |   |                              |
| 3.7  | Major Construction Equipment proposed to carry out the Contract [ITT Sub Clause 31.1(i)] |   |   |                              |
|  | Item of Equipment  | Condition<br>(new, good, average, poor) | Owned, leased or to be purchased<br>(state owner, lessor or seller) |                              |
|  |  |   |   |                              |
|  |  |   |   |                              |
|  |  |   |   |                              |
| <i>[Tenderer to list details of each item of major construction equipment, as applicable]</i>  |  |   |   |                              |

|  |  |                                     |
|--|--|-------------------------------------|
| Name:  | <i>[insert full name of signatory]</i>   | <i>Signature with Date and Seal</i> |
| In the capacity of:  | <i>[insert designation of signatory]</i> | <i>[ Sign]</i>                      |
| Duly authorized to sign the Tender for and on behalf of the Tenderer |  |                                     |

## Subcontractor Information Form (Form PG5A-2c)

*[This Form should be completed and signed by each Subcontractor, without alterations, preferably on its Letter-Head Pad]*

Invitation for Tender No:

[IFT No]

Tender Package No

[Package No]

Lot No. (when applicable)

[Lot No]

|  |   |
|--|---|
| 1. Eligibility Information of the Subcontractor [ITT -Clauses 5 & 28]    |   |
| 1.1  | Nationality of Individual or country of Registration  |
| 1.2  | Subcontractor's legal title   |
| 1.3  | Subcontractor's registered address  |
| 1.4  | Subcontractor's legal status [complete the relevant box]  |
|  | Proprietorship<br>(Please mention name and NID of the proprietor)   |
|  | Partnership<br>(Please mention name and NID of the partners)  |
|  | Limited Liability Concern<br>(Please mention name and NID of CEO or MD and the Directors (members of Board of Directors) and/ or Shareholders (at least 10% shares) of the concern) |
|  | Government-owned Enterprise   |
| 1.5  | Subcontractor's year of registration  |
| 1.6  | Subcontractor's authorised representative details   |
|  | Name  |
|  | Address   |
|  | Telephone numbers   |
|  | e-mail address  |
| 1.7  | Subcontractor to attach copies of the following original documents  |
|  | All documents to the extent relevant to ITT Clause 5 and 28 in support of its qualifications  |
| The following two information are applicable for national Subcontractors |   |
| 1.8  | Subcontractor's Value Added Tax   |

|  |  |                               |
|--|--|-------------------------------|
|  | Registration (VAT) Number  |                               |
| 1.9  | Subcontractor's Tax Identification Number (TIN)                                |                               |
| [The foreign Subcontractors, in accordance with ITT sub Clause 5.1, shall provide evidence by a written declaration to that effect to demonstrate that it meets the criterion] |  |                               |
| 2. Key Activity(ies) for which it is intended to be Subcontracted [ITT Sub Clause 18.1]  |  |                               |
| 2.1  | Elements of Activity   | Brief description of Activity |
|  |  |                               |
|  |  |                               |
| 2.2  | List of Similar Contracts in which the proposed Subcontractor had been engaged |                               |
|  | Name of Contract and Year of Execution   |                               |
|  | Value of Contract  |                               |
|  | Name of Procuring Entity   |                               |
|  | Contact Person and contact details   |                               |
|  | Type of Work performed   |                               |

## Price Schedule for Plant and Service (Form PG5A-3)

(This form should be completed and submitted by the tenderer and appended in the financial proposal envelope)

|   |                                    |
|---|------------------------------------|
| Invitation for Tender No:                                 | <i>[indicate IFT No]</i>           |
| Tender Package No   | <i>[indicate Package No]</i>       |
| This Package is divided into the following Number of Lots | <i>[indicate number of Lot(s)]</i> |

### General

- The Price Schedules are divided into separate Schedules as follows:
  - Schedule No. 1: Plant (including Mandatory Spare Parts) Supplied from Abroad
  - Schedule No. 2: Plant (including Mandatory Spare Parts) Supplied from within the Procuring Entity's Country
  - Schedule No. 3: Design Services
  - Schedule No. 4: Civil Works part
  - Schedule No. 5: Installation and Other Services
  - Schedule No. 6: Grand Summary
  - Schedule No. 7: Recommended Spare Parts
  - Schedule No. 8: Proposed Tariff for 20 years
- The Schedules do not generally give a full description of the plant to be supplied and the services to be performed under each item. Tenderers shall be deemed to have read the Procuring Entity's Requirements and other sections of the Tender Document and reviewed the Drawings to ascertain the full scope of the requirements included in each item prior to filling in the rates and prices. The entered rates and prices shall be deemed to cover the full scope as aforesaid, including overheads and profit.
- If tenderers are unclear or uncertain as to the scope of any item, they shall seek clarification in accordance with ITT 9.1 prior to submitting their tender.

### Pricing

- Prices shall be filled in indelible ink, and any alterations necessary due to errors, etc., shall be initialed by the Tenderer.  
As specified in the Tender Data Sheet and Special Conditions of Contract, prices shall be fixed and firm for the duration of the Contract, or prices shall be subject to adjustment in accordance with the corresponding Appendix (Price Adjustment) to the Contract Agreement.
- Tender prices shall be quoted in the manner indicated and in the currencies specified in the Instructions to Tenderers in the Tender Document.  
For each item, tenderers shall complete each appropriate column in the respective Schedules, giving the price breakdown as indicated in the Schedules.  
Prices given in the Schedules against each item shall be for the scope covered by that item as detailed in Section 6 (Procuring Entity's Requirements) or elsewhere in the Tender Document.
- Payments will be made to the Contractor in the currency or currencies indicated under each respective item.

7. When requested by the Procuring Entity for the purposes of making payments or partial payments, valuing variations or evaluating claims, or for such other purposes as the Procuring Entity may reasonably require, the Contractor shall provide the Procuring Entity with a breakdown of any composite or lump sum items included in the Schedules.

### Schedules of Rates and Prices

#### Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad: N/A

\*Please refer to Schedule No. 8

| Line Item No  | Description of Item | Country of Origin | Quantity | Unit Price<br>CIP[insert place of destination]<br>Or CIF[insert port of destination]<br>[Foreign Currency] | CIF/CIP price per Line Item<br>[Foreign Currency] | Taxes and Duties In Local Currency |
|---|---------------------|-------------------|----------|--|---|------------------------------------|
| 1   | 2                   | 3                 | 4        | 5  | 6 = 4 x 5   | 7                                  |
|   |                     |                   |          |  |   |                                    |
|   |                     |                   |          |  |   |                                    |
|   |                     |                   |          |  |   |                                    |
|   |                     |                   |          |  |   |                                    |
| Column 6 to be carried forward to Schedule No. 5. Grand Summary |                     |                   |          |  |   |                                    |

Note: 1. The Procuring Entity may also use other INCOTERMS, if deemed necessary. In such case Form PG5A-6, will require to be customized by the Procuring Entity  
 2. Specify currencies in accordance with ITT 27. Create and use as many columns for Unit Price and Total Price as there are currencies.

#### Country of Origin Declaration Form

| Item   | Description                       | Country                      |
|--|-----------------------------------|------------------------------|
|  |                                   |                              |
| Name:  | [insert full name of signatory]   | Signature with Date and Seal |
| In the capacity of:  | [insert designation of signatory] | [ Sign]                      |
| Duly authorized to sign the Tender for and on behalf of the Tenderer |                                   |                              |

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from within the Procuring Entity's Country: N/A

\*Please refer to Schedule No. 8

| Line No.  | Item | Description of Item | Quantity | Unit Price EXW (Foreign Currency or Taka) | Total EXW Price (Foreign Currency or Taka) | Sales Tax (Foreign Currency or Taka) | Total Price (Foreign Currency or Taka) |
|---|------|---------------------|----------|---|--|--------------------------------------|--|
| 1   | 2    |                     | 3        | 4   | 5 = 3x 4                                   | 6                                    | 7 = 5 + 6                              |
|   |      |                     |          |   |  |                                      |  |
|   |      |                     |          |   |  |                                      |  |
|   |      |                     |          |   |  |                                      |  |
|   |      |                     |          |   |  |                                      |  |
|   |      |                     |          |   |  |                                      |  |
|   |      |                     |          |   |  |                                      |  |
|   |      |                     |          |   |  |                                      |  |
| TOTAL Column 5 to be carried forward to Schedule No. 5. Grand Summary |      |                     |          |   |  |                                      |  |

Note: 1. Specify currencies in accordance with ITT 27. Create and use as many columns for Unit Price and Total Price as there are currencies

|  |  |                                     |
|--|--|-------------------------------------|
| Name:  | <i>[insert full name of signatory]</i>   | <i>Signature with Date and Seal</i> |
| In the capacity of:  | <i>[insert designation of signatory]</i> | <i>[ Sign]</i>                      |
| Duly authorised to sign the Tender for and on behalf of the Tenderer |  |                                     |

Schedule No. 3 - Design Services: N/A

\*Please refer to Schedule No. 8

| Item   | Description of Item | Quantity | Unit Price             |                          | Total Price            |                          |
|--|---------------------|----------|------------------------|--------------------------|------------------------|--------------------------|
|  |                     |          | Local Currency Portion | Foreign Currency Portion | Local Currency Portion | Foreign Currency Portion |
| (1)  | (2)                 | (3)      | (4)                    | (5)                      | (6) = (3 x 4)          | (7) = (3 x 5)            |
|  |                     |          |                        |                          |                        |                          |
|  |                     |          |                        |                          |                        |                          |
|  |                     |          |                        |                          |                        |                          |
|  |                     |          |                        |                          |                        |                          |
|  |                     |          |                        |                          |                        |                          |
|  |                     |          |                        |                          |                        |                          |
|  |                     |          |                        |                          |                        |                          |
|  |                     |          |                        |                          |                        |                          |
|  |                     |          |                        |                          |                        |                          |
|  |                     |          |                        |                          |                        |                          |
|  |                     |          |                        |                          |                        |                          |
|  |                     |          |                        |                          |                        |                          |
|  |                     |          |                        |                          |                        |                          |
|  |                     |          |                        |                          |                        |                          |
|  |                     |          |                        |                          |                        |                          |
| TOTAL Columns 6 and 7 to be carried forward to Schedule No. 5. Grand Summary |                     |          |                        |                          |                        |                          |

<sup>1</sup>Note: 1. Specify currencies in accordance with ITT 27. Create and use as many columns for Unit Price and Total Price as there are currencies

|  |  |                                     |
|--|--|-------------------------------------|
| Name:  | <i>[insert full name of signatory]</i>   | <i>Signature with Date and Seal</i> |
| In the capacity of:  | <i>[insert designation of signatory]</i> | <i>[ Sign]</i>                      |
| Duly authorised to sign the Tender for and on behalf of the Tenderer |  |                                     |



Schedule No. 5- Installation and Other Services: N/A

\*Please refer to Schedule No. 8

| Item  | Description | Quantity | Unit Price             |                          | Total Price            |                          |
|---|-------------|----------|------------------------|--------------------------|------------------------|--------------------------|
|   |             |          | Local Currency Portion | Foreign Currency Portion | Local Currency Portion | Foreign Currency Portion |
| 1   | 2           | 3        | 4                      | 5                        | 6 = 3 x 4              | 7 = 3 x 5                |
|   |             |          |                        |                          |                        |                          |
|   |             |          |                        |                          |                        |                          |
|   |             |          |                        |                          |                        |                          |
|   |             |          |                        |                          |                        |                          |
|   |             |          |                        |                          |                        |                          |
|   |             |          |                        |                          |                        |                          |
|   |             |          |                        |                          |                        |                          |
| <b>TOTAL Columns 6 and 7 to be carried forward to Schedule No. 5. Grand Summary</b> |             |          |                        |                          |                        |                          |

Note: 1. Specify currencies in accordance with ITT 27. Create and use as many columns for Unit Price and Total Price as there are currencies

|  |  |                                     |
|--|--|-------------------------------------|
| Name:  | <i>[insert full name of signatory]</i>   | <i>Signature with Date and Seal</i> |
| In the capacity of:  | <i>[insert designation of signatory]</i> | <i>[ Sign]</i>                      |
| Duly authorised to sign the Tender for and on behalf of the Tenderer |  |                                     |

## Schedule No. 6 - Grand Summary: N/A

\*Please refer to Schedule No. 8

| Schedule No.   | Title   | Total Price      |                |
|--|---|------------------|----------------|
|  |   | Foreign Currency | Local Currency |
| 1  | Plant and Mandatory Spare Parts Supplied from Abroad                                |                  |                |
| 2  | Plant and Mandatory Spare Parts Supplied from Within the Procuring Entity's Country |                  |                |
| 3  | Design Services   |                  |                |
| 4  | Installation and Other Services   |                  |                |
| <b>GRAND TOTAL to be carried forward to Form PG5A-1b</b> |   |                  |                |

Note: 1. Specify currencies in accordance with ITT 27. Create and use as many columns for Unit Price and Total Price as there are currencies

2. Create additional columns for up to a maximum of 3 Foreign Currencies if so required

|  |  |                                     |
|--|--|-------------------------------------|
| Name:  | <i>[insert full name of signatory]</i>   | <i>Signature with Date and Seal</i> |
| In the capacity of:  | <i>[insert designation of signatory]</i> | <i>[ Sign]</i>                      |
| Duly authorised to sign the Tender for and on behalf of the Tenderer |  |                                     |



**Schedule No. 8 - Proposed Tariff for 20 years**

| Item | Description     | Quantity (Years) | Solar Plant Capacity | Unit Price (BDT/KWh) Including VAT, AIT etc. |
|------|-----------------|------------------|----------------------|--|
| 1    | 2               | 3                | 4                    | 5  |
| 01.  | Proposed Tariff | 20 years         | 4.136 MWp            | *[insert up to three decimal value ]         |

**Note 1.** The payment shall be made in BDT.

For all utilities except BREB, The tenderer shall quote price less than the 33 kV bulk rate of **Bhola Palli Bidyut Samity** prevailing at the time of last date of tender submission.

For BREB, The tenderer shall quote price less than the sum of 33 kV bulk rate and wheeling charge prevailing at the time of last date of tender submission.

If any tenderer does not follow this instruction, the financial proposal of the tenderer will be considered as non-responsive. The Proposed Tariff shall remain fixed for entire contract period.

**Note 2.** The Proposed Tariff (BDT/KWh) shall include all cost of the tenderer to be incurred during phase 1 and phase 2 as per requirement of tender document (example: Solar system with procurement and installation cost, Roof rent cost, any equipment replacement cost, server & software cost of remote metering, operation and maintenance cost, data communication cost, training cost, meter testing cost, VAT, AIT etc. ).

**Note 3:** In the event of a tie in the financial offers, the tie shall be resolved during financial evaluation by ranking the tenderers based on their demonstrated financial solvency to implement the project. Financial solvency will be assessed on the basis of the *total* of the following amounts:

- i. Balance shown in the Bank Statement Certificate.
- ii. Amount specified in the Line of Credit.

The tenderer with the highest financial solvency shall be ranked 1<sup>st</sup>, followed by others in descending order.

**Note 4:** The tenderer are required to follow the total system capacity (MWp) mentioned under Solar Plant Capacity in the above table. However, it will be acceptable if any tenderer's proposed total system capacity is 10 to 15% less than Solar Plant Capacity under the package mentioned in above table.

|  |  |                                     |
|--|--|-------------------------------------|
| Name:  | <i>[insert full name of signatory]</i>   | <i>Signature with Date and Seal</i> |
| In the capacity of:  | <i>[insert designation of signatory]</i> | <i>[ Sign]</i>                      |
| Duly authorised to sign the Tender for and on behalf of the Tenderer |  |                                     |

## Technical Proposal (Form PG5A-4)

*[The Revised Technical Proposal, if any, shall follow the same format and structure]*

Site Organization

Method Statement

Mobilization Structure

Construction Structure

Plant

Safety Plan

Personnel

Equipment

Proposed subcontractors for Major Items of Plant and Services

Time Schedule

## Site Organization

*[insert technical proposal for site organization]*

*[The Tenderer shall include in the tender an appropriate organization chart. This shall include head office as well as site components and clearly demonstrate that the Tenderer possesses the staff and organizational resources to complete the Supply and Installation of Plant & Equipment.]*

## Method Statement

*[insert technical proposal for Method Statement]*

*[The Tenderer shall furnish an overall description covering all activities and processes from*

*inception to site works and commissioning.*

*In particular methods of minimizing the impact on the environment in accordance with the relevant laws and regulations during the construction phase shall be described.]*

## **Mobilization Schedule**

*[insert technical proposal for Mobilization Schedule]*

*[This shall be included in the overall time schedule to be provided by the Tenderer as per "Time Schedule" in Section 5.Tendering Forms*

## **Construction Schedule**

*[insert technical proposal for Construction Schedule]*

*[This shall be included in the overall time schedule to be provided by the Tenderer as per "Time Schedule" in Section 5. Tendering Forms]*

## **Plant**

*[insert technical proposal for **Plant**]*

*[The Tenderer shall provide the plant and equipment it intends to use in the construction process to demonstrate that it has the capability to complete the Supply and Installation of Plant & Equipment.]*

## **Safety Plan**

*[insert technical proposal for **Safety Plan**]*

*[The Tenderer shall demonstrate that it has a comprehensive safety system that will be used during the construction and installation phase. This system shall meet all safety requirements in accordance with all relevant laws, rules and regulations.]*



## Personnel Information

*[This Form should be completed for each person proposed by the Tenderer on Form PG5A-2a& PG5A-2b, where applicable]*

|                                    |                     |
|------------------------------------|---------------------|
| Invitation for Tender No:          | <i>[IFT No]</i>     |
| Tender Package No                  | <i>[Package No]</i> |
| Lot No. ( <i>when applicable</i> ) | <i>[Lot No]</i>     |

|  |  |  |  |
|--|--|--|--|
| <b>A. Proposed Position</b> (tick the relevant box)  |  |  |  |
| <input type="checkbox"/> Construction Project Manager  | <input type="checkbox"/> Prime Candidate | <input type="checkbox"/> Alternative Candidate |  |
| <input type="checkbox"/> Key Personnel   | <input type="checkbox"/> Prime Candidate | <input type="checkbox"/> Alternative Candidate |  |
| <b>B. Personal Data</b>  |  |  |  |
| Name   |  |  |  |
| Date of Birth  |  |  |  |
| Years overall experience   |  |  |  |
| National ID Number   |  |  |  |
| Years of employment with the Tenderer  |  |  |  |
| Professional Qualifications:   |  |  |  |
| 1.   |  |  |  |
| <b>C. Present Employment</b> <i>[to be completed only if not employed by the Tenderer]</i>   |  |  |  |
| Name of Procuring Entity<br>(working under):   |  |  |  |
| Address of Procuring Entity<br>(working under):  |  |  |  |
| Present Job Title:   |  |  |  |
| Years with present Procuring Entity:   |  |  |  |
| Tel No:  | Fax No:                                  | e-mail address:                                |  |
| Contact <i>[manager/personnel officer]:</i>  |  |  |  |
| <b>D. Professional Experience</b>  |  |  |  |
| Summarise professional experience over the past twenty years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the project. |  |  |  |
|  | From                                     | To   | Company / Project / Position / Relevant technical and management experience. |
| 1  |  |  |  |
| 2  |  |  |  |

|  |  |                                     |
|--|--|-------------------------------------|
| Name:  | <i>[insert full name of signatory]</i>   | <i>Signature with Date and Seal</i> |
| In the capacity of:  | <i>[insert designation of signatory]</i> | <i>[ Sign]</i>                      |
| Duly authorised to sign the Tender for and on behalf of the Tenderer |  |                                     |

## Equipment Information

*[The Tenderer shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in TDS. A Separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Tenderer]*

|   |                                    |
|---|------------------------------------|
| Invitation for Tender No:                                 | <i>[indicate IFT No]</i>           |
| Tender Package No   | <i>[indicate Package No]</i>       |
| This Package is divided into the following Number of Lots | <i>[indicate number of Lot(s)]</i> |

|                       |  |                        |
|-----------------------|--|------------------------|
| Item of equipment     |  |                        |
| Equipment information | Name of manufacturer   | Model and power rating |
|                       | Capacity   | Year of manufacture    |
| Current status        | Current location   |                        |
|                       | Details of current commitments   |                        |
| Source                | Indicate source of the equipment<br><input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased <input type="checkbox"/> Specially manufactured |                        |

Omit the following information for equipment owned by the Tenderer.

|            |  |                        |
|------------|--|------------------------|
| Owner      | Name of owner  |                        |
|            | Address of owner   |                        |
|            | Telephone  | Contact name and title |
|            | Fax  | Telex                  |
| Agreements | Details of rental / lease / manufacture agreements specific to the project |                        |

|  |  |                                     |
|--|--|-------------------------------------|
| Name:  | <i>[insert full name of signatory]</i>   | <i>Signature with Date and Seal</i> |
| In the capacity of:  | <i>[insert designation of signatory]</i> | <i>[ Sign]</i>                      |
| Duly authorised to sign the Tender for and on behalf of the Tenderer |  |                                     |

## Proposed Subcontractors for Major Items of Plant and Installation Services

A list of major items of Plant and Installation Services is provided below.

The following Subcontractors and/or manufacturers are proposed for carrying out the item of the facilities indicated. Tenderers are free to propose more than one for each item

| Major Items of Plant and Installation Services | Proposed Subcontractors/Manufacturers | Nationality |
|--|---------------------------------------|-------------|
|  |                                       |             |
|  |                                       |             |
|  |                                       |             |

### Form Functional Guarantee

The Tenderer shall copy in the left column of the table below, the identification of each functional guarantee required in the Specification and stated by the Procuring Entity in ITT 24(n) and in the right column, provide the corresponding value for each functional guarantee of the proposed plant and equipment.

|   |                                    |
|---|------------------------------------|
| Invitation for Tender No:                                 | <i>[indicate IFT No]</i>           |
| Tender Package No   | <i>[indicate Package No]</i>       |
| This Package is divided into the following Number of Lots | <i>[indicate number of lot(s)]</i> |

| Required Functional Guarantee | Value of Functional Guarantee of the Proposed Plant and Equipment |
|-------------------------------|---|
| 1.                            |   |
| 2.                            |   |
| 3.                            |   |
| 4.                            |   |
| 5.                            |   |
| 6.                            |   |
|                               |   |
|                               |   |
|                               |   |

## Specifications Submission and Compliance Sheet (Form PG5A-5)

Invitation for Tender No:  
Tender Package No:

Date:  
Package Description: *[enter description as specified in Section 6]*

Tender Lot No:

Lot Description: *[enter description as specified in Section 6]*

| Item No. | Name of Goods or Related Service  | Country of Origin | Make and Model ( <i>when applicable</i> ) | Full Technical Specifications and Standards                            |
|----------|---|-------------------|---|--|
| <i>1</i> | <i>2</i>  | <i>3</i>          | <i>4</i>                                  | <i>5</i>   |
| 1.       | Solar PV Panel  |                   |   | <i>As per the attached GTPs in Section 6.2 of the Tender Document.</i> |
| 2.       | On-Grid Solar Inverter  |                   |   |  |
| 3.       | PV Mounting Structures  |                   |   |  |
| 4.       | 415 Volt 200/5, 400/5 Amps Indoor Type Single Phase Current Transformer |                   |   |  |
| 5.       | 415 V Indoor Type Metering Panel  |                   |   |  |
| 6.       | Test Terminal Block   |                   |   |  |
| 7.       | Energy Meter  |                   |   |  |
| 8.       | AMR Meter Communication Modem   |                   |   |  |
| 9.       | Data Acquisition System for AMR Metering                                |                   |   |  |
| 10.      | Servers for Data Acquisition System                                     |                   |   |  |

*[The Tenderer should complete all the columns as required]*

|  |  |
|--|--|
| Signature:   | <i>[insert signature of authorised representative of the Tenderer]</i> |
| Name:  | <i>[insert full name of signatory with National ID]</i>                |
| In the capacity of:  | <i>[insert designation of signatory]</i>                               |
| Duly authorised to sign the Tender for and on behalf of the Tenderer |  |

## Manufacturer's Authorisation Letter (Form PG5A - 6)

*[The Tenderer shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.]*

*[The Tenderer shall include it in its Tender, if so indicated in the TDS as stated under ITT Sub Clause 31.1 (e)]*

|   |       |
|---|-------|
| Invitation for Tender No:                     | Date: |
| Tender Package No:                            |       |
| Tender Lot No ( <i>when applicable</i> ):     |       |
| To:<br>[Name and address of Procuring Entity] |       |

### WHEREAS

We *[insert complete name of Manufacturer]*,

who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby

authorize *[insert complete name of Tenderer]* to supply the following Plant and Equipment, manufactured by us *[insert name and or brief description of the Goods]*.

We hereby extend our full guarantee and warranty as stated under GCC Clause 45 of the General Conditions of Contract, with respect to the Goods offered by the above Tenderer.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Address: *[insert full address including Fax and e-mail]*

Title: *[insert title]*

Date: *[insert date of signing]*

## Bank Guarantee for Tender Security (Form PG5A-7)

*[This is the format for the Tender Security to be issued by any scheduled Bank of Bangladesh without alteration, in accordance with ITT Clause 34 & 35]*

Invitation for Tender No:

Date:

Tender Package No:

Lot No (*when applicable*)

To:

[Name and address of the Procuring Entity]

**TENDER GUARANTEE No:** [insert number]

We have been informed that [*name of Tenderer*] (hereinafter called “the Tenderer”) intends to submit to you its Tender dated [*date of Tender*] (hereinafter called “the Tender”) for the supply of [*description of Goods*] under the above Invitation for Tenders (hereinafter called “the IFT”).

Furthermore, we understand that, according to your conditions, the Tender must be supported by a Bank Guarantee for Tender Security.

At the request of the Tenderer, we [*name of Bank*] hereby irrevocably unconditionally undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of Tk [*insert amount in figures and words*] upon receipt by us of your first written demand accompanied by a written statement that the Tenderer is in breach of its obligation(s) under the Tender conditions, because the Tenderer:

- a. has withdrawn its Tender after opening of Tenders but within the validity of the Tender Security; or
- b. failed to furnish Performance Security within the period stipulated in the NOA; or
- c. refused to sign the Contract Agreement by the time specified in the NOA; or
- d. did not accept the correction of the Tender price following the correction of the arithmetic errors as stated under ITT.
- e. involves in any corrupt, fraudulent, collusive, coercive or obstructive practice of any kind as defined in ITT Clause 4.

This guarantee will expire

- (a) if the Tenderer is the successful Tenderer, upon our receipt of a copy of the Contract Agreement signed by the Tenderer or a copy of the Performance Security issued to you in accordance with the ITT; or
- (b) if the Tenderer is not the successful Tenderer, twenty-eight (28) days after the expiration of the Tenderer’s Tender Validity period, being [*date of expiration of the Tender Validity plus twenty-eight (28) days*].

Consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

Signature

Signature

## Letter of Commitment for Bank's Undertaking for Line of Credit (Form PG5A-8)

[This is the format for the Credit Line to be issued by any scheduled Bank of Bangladesh, without alterations, in accordance with ITT Clause 31.1(d).]

Invitation for Tender No:

Date:

Tender Package No:

Lot No (when applicable)

To:

[Name and address of the Procuring Entity]

**CREDIT COMMITMENT No: [insert number]**

We have been informed that [name of Tenderer] (hereinafter called "the Tenderer") intends to submit to you its Tender (hereinafter called "the Tender") for the procurement of [name of the tender] under the above Invitation for Tenders (hereinafter called "the IFT").

Furthermore, we understand that, according to your conditions, the Tenderer's Financial Capacity i.e. Liquid Asset must be substantiated by a Letter of Commitment of Bank's Undertaking for Line of Credit.

At the request of, and arrangement with, the Tenderer, we [name and address of the Bank] do hereby agree and undertake that [name and address of the Tenderer] will be provided by us with a revolving line of credit, in case awarded the Contract, for the procurement of viz. [insert name of the tender], for an amount equal to [name of currency(s)] [Amount in figure] ( in words) under the above Contract. This Revolving Line of Credit will be maintained by us until issuance of "Commercial Operation Date (COD) Certificate" by the Procuring Entity.

In witness whereof, authorised representatives of the Bank have hereunto signed and sealed this Letter of Commitment.

Signature

Signature

## Notification of Award (Form PG5A-9)

Reference No:

Date:

To:

[Name of the successful tenderer]

This is to notify you that your Tender dated *[insert date]* for the supply and installation of plant and subsequent Operation , maintenance and related Services for 20 years for *[name of contract]* for the Contract Price of Per Unit (KWh) cost of solar energy at *[state amount in BDT and in words]* under “No Generation No Pay Policy” as corrected and modified in accordance with the Instructions to Tenderers, has been approved by *[name of Employer]*.

You are thus requested to take following actions:

- i. accept in writing the Notification of Award within seven (7) working days of its issuance pursuant to ITT Sub-Clause 64.1
- ii. furnish a Performance Security in the specified format and in the amount of Tk.*[state amount in figures and words]*, within Twenty-eight (28) days from issue of this Notification of Award but not later than *(specify date)*, in accordance with ITT Clause 64.3
- iii. sign the Contract within twenty eight (28 ) days of issuance of this Notification of Award but not later than *(specify date)*, in accordance with ITT Clause 69.2

You may proceed with the execution of the supply of Plant and Services only upon completion of the above tasks. You may also please note that this Notification of Award shall constitute the formation of this Contract, which shall become binding upon you.

We attach the draft Contract and all other documents for your perusal and signature.

|  |
|--|
| Signed                                       |
|  |
| Duly authorized to sign for and or behalf of |
| [name of Procuring Entity]                   |

Date:

## Contract Agreement (Form PG5A-10)

THIS AGREEMENT made the [day] day of [month][year] between [name and address of Employer] (hereinafter called "the Employer") of the one part and [name and address of Contractor] (hereinafter called "the Contractor") of the other part:

WHEREAS the Employer invited Tenders for certain plant and services, viz, [brief description of plant and services] and has accepted a Tender by the Contractor for the supply of those plant and services for the Contract Price of Per Unit (KWh) cost of solar energy at [state amount in BDT and in words] under "No Generation No Pay Policy" (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the General Conditions of Contract hereafter referred to.
2. The documents forming the Contract shall be interpreted in the following order of priority:
  - (a) the signed Contract Agreement
  - (b) the Notification of Award
  - (c) the completed Tender and the Appendix to the Tender
  - (d) the Particular Conditions of Contract
  - (e) the General Conditions of Contract
  - (f) the Technical Specifications
  - (g) the General Specifications
  - (h) the Drawings
  - (i) the Priced Schedules of Plant and Equipment
  - (j) any other document including correspondence listed in the **PCC** forming part of the Contract.
3. In consideration of the payments to be made by the Procuring Entity to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Procuring Entity to provide the plants and related services and to remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Procuring Entity hereby covenants to pay the Contractor in consideration of the provision of the plant and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. The Appendices listed in the attached List of Appendices shall be deemed to form an integral part of this Contract Agreement. Reference in the Contract to any Appendix shall mean the Appendices attached hereto, and the Contract shall be read and construed accordingly.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Bangladesh on the day, month and year first written above.

For the Procuring Entity

For the Contractor

Signature

Name

National ID No.

Title

In the presence of Name

Address

## Bank Guarantee for Performance Security (Form PG5A-11)

*[This is the format for the Performance Security to be issued by any scheduled Bank of Bangladesh, without alteration, in accordance with ITT Clause 66]*

Contract No: [insert reference number]

Date: [insert date]

To:

[ insert Name and address of Procuring Entity]

**PERFORMANCE GUARANTEE No: [insert number]**

We have been informed that *[name of Contractor]* (hereinafter called “the Contractor”) has undertaken, pursuant to Contract No *[insert reference number of Contract]* dated *[insert date of Contract]* (hereinafter called “the Contract”), the execution of Goods *[description of Goods]* under the Contract.

Furthermore, we understand that, according to your conditions, the Contract must be supported by a Bank Guarantee for Performance Security.

At the request of the Contractor, we *[name of Bank]* hereby irrevocably unconditionally undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of Tk *[insert amount in figures and in words]* upon receipt by us of your first written demand accompanied by a written statement that the Contractor is in breach of its obligation(s) under the Contract conditions, without you needing to prove or show grounds or reasons for your demand of the sum specified therein.

This guarantee is valid until *[date of validity of guarantee]*, consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

Signature

Signature

## Bank Guarantee for Advance Payment (Form PG5A-12): N/A

*[This is the format for the Advance Payment Guarantee to be issued by any scheduled Bank of Bangladesh, without alteration, in accordance with GCC Clause 61.1]*

Contract No: [insert reference number]

Date: [insert date]

To:

[insert Name and address of the Procuring Entity]

**ADVANCE PAYMENT GUARANTEE No: [insert number]**

We have been informed that *[name of Contractor]* (hereinafter called “the Contractor”) has undertaken, pursuant to Contract No *[insert reference number of Contract]* dated *[insert date of Contract]* (hereinafter called “the Contract”), the execution of Goods *[description of Goods]* under the Contract.

Furthermore, we understand that, according to your Conditions of Contract under GCC Clause 61.1, the Advance Payment on Contract must be supported by a Bank Guarantee.

At the request of the Contractor, we *[insert name of Bank]* hereby irrevocably unconditionally undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of Tk *[insert amount in figures and in words]* upon receipt by us of your first written demand accompanied by a written statement that the Contractor is in breach of its obligation(s) under the Contract conditions, without you needing to prove or show grounds or reasons for your demand of the sum specified therein.

We further agree that no change, addition or other modification of the terms of the Contract to be performed, or of any of the Contract documents which may be made between the Procuring Entity and the Contractor, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee is valid until *[insert date of validity of guarantee]*, consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

Signature

Signature

## Bank Guarantee for Retention Money Security (Form PG5A-13): N/A

*[This is the format for the Retention Money Guarantee to be issued by any scheduled Bank of Bangladesh in accordance with GCC Clause 64]*

### Demand Guarantee

[Bank's Name, and Address of Issuing Branch or Office]

**Beneficiary:** [insert Name and Address of the Procuring Entity]

**Date:** [insert date]

**RETENTION MONEY GUARANTEE No.:** [insert number]

We have been informed that [insert name of Contractor] (hereinafter called "the Contractor") has entered into Contract Number [insert reference number of the Contract] dated [insert date] with you, for the execution of [insert name of Contract and brief description of Works] (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, when the Taking-Over Certificate has been issued for the Works and the first half of the Retention Money has been certified for payment, payment of Tk. [insert the amount of the second half of the Retention Money] which becomes due after the Defects Liability Period has passed and certified in the form of Defects Correction Certificate, is to be made against a Retention Money Guarantee.

At the request of the Contractor, we [insert name of Bank] hereby irrevocably unconditionally undertake to pay you any sum or sums not exceeding in total an amount of Tk. [insert amount in figures] (Taka [insert amount in words]) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract because the Contractor failed to properly correct the defects duly notified in respect of the Supply and Installation of Plant & Equipment.

It is a condition for any claim and payment under this guarantee to be made that the payment of the second half of the Retention Money referred to above must have been received by the Contractor on its account number [insert A/C no] at [name and address of Bank].

This guarantee is valid until [insert the date of validity of Guarantee that being twenty-eight (28) days beyond the Defects Liability Period]. Consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

***Procurement of Solar Energy from 4.136 MWp Rooftop Solar System in Bhola Palli Bidyut Samity (LALMOHON UPAZILLA) Area on BOO (Build, Own, Operate) Basis following OpEx Model.***

# Contract Amendment (Form PG5A-14)

[Insert Full Contact Details of the Procuring Entity]

## CONTRACT AMENDMENT

|                               |  |
|-------------------------------|--|
| <b>Contract No.</b>           |  |
| <b>Amendment No.</b>          |  |
| <b>Approval Reference No.</b> |  |

Contract No. [insert number/year] by and between the [insert Procuring Entity's name] and [insert Contractor's legal title] for the contract named [insert name of the Goods] is amended as follows:

1. GCC Clause [insert clause no], is hereby revised as \_\_\_\_\_  
\_\_\_\_\_
2. GCC Clause [insert clause no], is hereby revised as \_\_\_\_\_  
\_\_\_\_\_

and so on.

The effective date of this Amendment is [insert effective date] or upon execution whichever is later.

### **ALL OTHER TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT SHALL REMAIN IN FULL FORCE AND EFFECT**

THIS AMENDMENT, consisting of [insert number] page(s) and [insert number] attachment(s), is executed by the persons signing below who warrant that they have the authority to execute this Amendment under the original Contract.

IN WITNESS WHEREOF, the Procuring Entity and the Contractor have signed this Amendment.

[Contractor's Authorized Signatory]

[Procuring Entity's Authorized Signatory]

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

# TRI-PARTITE AGREEMENT

BY AND AMONG

Bhola palli Bidyut Samity hereinafter referred to as “Bhola palli Bidyut Samity”

AND

Customer (Roof Owner/authorized representative) (hereinafter referred to as “Customer”)

AND

Contractor (hereinafter referred to as “Project Company”)

.....

---

-RELATING TO-

[-----] MWp Grid Tied Solar Power Plant

On the roof top of [ Customer Address ]

---

Dated as of \_\_\_\_/\_\_\_\_/ 2026

# Tri-partite Agreement

Among

Authorities of "Bhola palli Bidyut Samity "

AND

Customer (Roof Owner/**authorized representative**)

AND

Contractor (Project Company)

.....

This Tri-partite Agreement (TPA) is made and entered into on this \_\_\_ day of \_\_\_ 2026, by and among the parties identified above.

## *First Party*

Bhola palli Bidyut Samity including its successors, legal representatives, executors, administrators, and assigns, hereinafter referred to as Bhola palli Bidyut Samity under this TPA.

## *Second Party*

The Customer (Roof Owner/**authorized representative**) who is also the site owner and lessor of the roof, hereinafter referred to as **Customer** under this TPA.

## *Third Party*

The Contractor, duly incorporated under the Companies Act, 1994, represented by its Managing Director, having its corporate office at [insert address], Bangladesh, and also the lessee of the roof of the site, hereinafter referred to as **Project Company** under this TPA.

## **WHEREAS:**

1. Bhola palli Bidyut Samity has undertaken programs to install solar power generation projects on rooftops of the Customer.
2. The solar power project will be implemented by the Contractor (Project Company) through a competitive bidding process.
3. The solar power generated will be purchased by Bhola palli Bidyut Samity. The Site will be leased to the Project Company by the Customer.

In view of the above, the Site will be handed over to the Project Company following the signing of this TPA.

NOW THEREFORE, for and in consideration of the mutual agreement among Bhola palli Bidyut

*Procurement of Solar Energy from 4.136 MWp Rooftop Solar System in Bhola Palli Bidyut Samity (LALMOHON UPAZILLA) Area on BOO (Build, Own, Operate) Basis following OpEx Model.*

**Samity** the Customer, the Project Company and do hereby agree to the sign the TPA abide by the following terms and conditions.

IN WITNESS WHEREOF all parties have caused this TPA be signed in its corporate name/official name and its corporate seal/ official seal to be hereunto affixed and attested by its officer's thereunto and duly authorized, all as of the day and year first above written.

### **1. Effectiveness of the Tri-partite Agreement**

All the provisions of this TPA become effective and operable by all parties, namely, the Site Owner i.e the Customer (hereinafter the Lessor) and the Project Company (hereinafter the Lessee), and Bhola palli Bidyut Samity immediately on signing the TPA.

### **2. Term**

This Tri-partite Agreement shall commence and be effective on the date first above written and shall, unless terminated earlier in accordance with the terms of TPA, continue in full force and effect for a period of 20 (Twenty) years and additional 03 (three) months for demolish the site structures, Clearance and handed over the site to the owner as before.

### **3. Terms and Conditions**

- a) The Project Company shall design, finance, construct, install, test, own, operate, and maintain the solar power project in accordance with this TPA.
- b) The Project Company shall not demolish any permanent structure on the Site without prior written consent of the Lessor and Bhola palli Bidyut Samity The Project Company shall not construct any structure at the site which creates physical obstacle or obstacles to Government network communication.
- d) Authorized officers or staff of Bhola palli Bidyut Samity may visit and supervise the project at any time without hindrance.
- e) The Project Company shall not sub-lease or allow any third party to use the Site. Violation of this clause will result in immediate termination of the TPA and the Lessee will be liable to compensate the Lessor.
- f) The Customer (Roof Owner) ensures that the building is structurally suitable for the installation of the rooftop solar system. Furthermore, the Customer (Roof Owner) shall not undertake any vertical extension or modification of the building on which the rooftop solar system is installed during the contract period.
- g) The Customer (Roof Owner) shall-
  - (i) Provide rooftop space free of charge during the installation of the System.
  - (ii) Ensure that the rooftop remains structurally safe and accessible

throughout the contract period.

- (iii) Provide necessary cooperation to Bhola palli Bidyut Samity and Contractor for installation, inspection, and maintenance activities.
- (iv) Ensure the security of the installed System from unauthorized interference and theft.
- (v) Ensure availability of adequate water for the periodic cleaning of the solar panels.

**4. Roof Rent**

The bidder’s Proposed Tariff shall include roof rent cost to be paid to the roof owner/roof authority preferably on a monthly basis during the Phase-2 of the contract period. It is to be noted that no roof rent shall be paid during Phase-1 of the contract period.

The Roof rent amount per month will be equivalent to 10% of total generated electricity in that month multiplied by the Proposed Tariff quoted by the contractor or BDT 1000 whichever is higher. The roof rent amount shall be deducted from the monthly invoices of the contractor. Bhola palli Bidyut Samity shall adjust this roof rent in the monthly electricity bill of the customer.

**5. Roof top area and Capacity of solar system to be installed at this site:**

| Site name & Address | Rooftop area for solar system installation (square foot) | Solar system capacity (kWp) | Roof Condition Suitable for Proposed Solar system during contract period (Yes / No) |
|---------------------|--|-----------------------------|---|
|                     |  |                             |   |

**6. Service drop modification, Metering and solar power evacuation:**

| Service drop modification required (YES/NO) | Solar Power Generation meter   | Replacement of existing meter with Net meter required (YES/NO) | Solar Power required to be evacuated at           |                               |
|---|--|--|---|-------------------------------|
|   |  |  | [ UTILITY NAME ] 's distribution network (YES/NO) | Customer’s Load side (YES/NO) |
|   | a. Single phase<br>b. Three phase<br>c. LTCT meter with CT ratio:<br>[Mention any one option and delete other 2 options, in case of ‘c’, mention CT ratio also |  |   |                               |

**7. Repair/renovation due to any damage done to any property of customer for installation of solar system:**

The contractor shall be liable to do repair/renovate to any damage done to any asset of the customer for installation of solar system promptly at its own cost.

8. **Calculation of Bill /month to be paid to contractor by Bhola palli Bidyut Samity** The contractor's bill/month shall be calculated as follows:

$$\text{Net bill payable} = (a \times m) - b$$

Where,

- a = Total solar energy generated on a particular roof in the month  
m = Proposed Tariff (BDT/KWh)  
b = roof rent = 10% of (a x m) or BDT 1000 whichever is higher

VAT, Income tax shall be deducted from bill as per govt. rule.

Bhola palli Bidyut Samity shall adjust the roof rent with roof owner's monthly electricity bill.

9. **Calculation of Bill /month to be paid by the customer to Bhola palli Bidyut Samity :**

- a. Where power from solar system is evacuated at 415 Volt and at load side DB box of the customer after the net meter:

The customer shall pay monthly electricity consumption bill to **Bhola Palli Bidyut Samity** as follows:

$$\text{Monthly Electricity Consumption Bill} = (a + b - c) * n - d$$

Where,

- a = Monthly solar generation (units) as recorded in the solar generation meter.  
b = Monthly electricity import (units) as recorded in the net energy meter.  
c = Monthly electricity export (units) as recorded in the net energy meter.  
n = Tariff rate of the customer (Peak /Off peak/flat/ slab tariff, which one applicable).  
d = roof rent = 10% of total monthly generation \* Proposed Tariff quoted by the contractor or BDT 1000 whichever is higher.

In this case, the existing meter of the customer shall be replaced by net energy meter by the contractor. The cost is deemed to be included in Proposed Tariff.

- b. Where power from solar system is evacuated directly to distribution network of Bhola Palli Bidyut Samity,
- c. The customer shall pay monthly electricity consumption bill to **Bhola Palli Bidyut Samity** as follows:

$$\text{Monthly Electricity Consumption Bill} = a - b$$

Where,

- a = Monthly electricity bill corresponding to reading (units) as recorded in the energy meter.
- b = roof rent = 10% of total monthly generation \* Proposed Tariff quoted by the contractor or BDT 1000 whichever is higher.

**(3<sup>rd</sup> Party)**

Managing Director  
Name of the Contractor  
Company

**(2<sup>nd</sup> Party)**

Designated Officer:  
Authority:  
Address:

**(1<sup>st</sup> Party)**

Designated Officer:  
Authority:  
Address:

**Witnesses:**

1. Representative of **Bhola Palli Bidyut Samity, Banglabazar, Bhola .**
  
2. Representative of Customer.
  
3. Representative of Contractor.

## Section 6. Procuring Entity's Requirements

|   |  |
|---|--|
| <b>6.1 Scope of Supply of Plant and Installation Services by the Contractor</b> |  |
| <b>6.2 Specification</b>  |  |
| <b>6.3 Form of Completion Certificate</b>                                       |  |
| <b>6.4 Form of Operational Acceptance Certificate</b>                           |  |
| <b>6.5 Change Order Procedure and Forms</b>                                     |  |
|   | Annex 1. Request for Change Proposal     |
|   | Annex 2. Estimate or Change Proposal     |
|   | Annex 3. Acceptance of Estimate          |
|   | Annex 4. Change Proposal                 |
|   | Annex 5. Change Order                    |
|   | Annex 6. Pending Agreement Change Order  |
|   | Annex 7. Application for Change Proposal |
| <b>6.6 Supplementary Information</b>  |  |

## 6.1 Scope of Supply of Plant and Installation Services by the Contractor

### 1. Background

Bhola Palli Bidyut Samity is one of the 80 Rural Electricity Associations managed by the Bangladesh Rural Electrification Board. Bhola Palli Bidyut Samity provides electricity services in Bhola district through 3 zonal offices, 3 sub-zonal offices, 1 area office and 22 complaint centers. Bhola Palli Bidyut Samity was established on 19 March 1998. Bhola Palli Bidyut Samity is providing electricity facilities to almost 4,50,000 customers (units) of Bhola District.

In line with the Bangladesh Renewable Energy Policy 2025, which sets targets of meeting 20% of total electricity demand from renewable sources by 2030 and 30% by 2040, the Power Division has launched the National Rooftop Solar Program to ensure energy security and prioritize renewable energy. Under Initiative B, Model 3 (Third Party OpEx Model), educational and social institutions provide rooftop space, while a private investor finances, installs, and maintains the solar system. The electricity first meets the institution's demand, and any surplus goes to the distribution Bhola Palli Bidyut Samity's grid. The contractor covers all costs, and the contract usually runs for 20 years from date of commercial operation date (COD).

A preliminary survey carried out by Bhola Palli Bidyut Samity has identified 119 eligible institutions within its service area, with a combined rooftop surface area of nearly 288913 square feet, which presents a significant opportunity for clean energy deployment. (Details List Annex A).

### 2. Project Scope and Implementation

The proposed project under Initiative B will be implemented on a Build, Own, and Operate (BOO) basis, following the principle of "No Generation, No Payment." This approach ensures that financial commitments are directly linked to actual energy production, creating a fair and transparent investment environment. The project period is divided into the following two distinct phases, Phase 1 and Phase 2:

In **Phase 1**, the selected bidder will be responsible for obtaining design approval from Bhola Palli Bidyut Samity procuring high-quality materials, and completing the installation of the rooftop solar systems across identified sites. During this stage, an Automated Meter Reading (AMR) system consisting meter from at least three different meter manufacturer will also be deployed to enable remote meter reading facility for monthly bill generation. The bidder MODEM may be unified. Importantly, the Data Acquisition System for AMR Metering will remain the property of Bhola Palli Bidyut Samity ensuring accuracy, transparency, and long-term protection of revenue streams. No payments will be made to the bidder during this pre-operational phase, as it primarily involves design, construction, and commissioning activities. The duration of phase 1 will be 1 year to be counted from the date of effective date.

In **Phase 2**, the project will transition into commercial operation. From the Commercial Operation Date (COD), the bidder will receive monthly payments based solely on the actual units of electricity generated and recorded through the Data Acquisition System for AMR Metering.

The “No Generation, No Payment” principle ensures that Bhola Palli Bidyut Samity pays only for verified delivered electricity. The duration of phase 2 will be 20 years to be counted from the date of issuance of COD.

#### **BOO Basis Project:**

The proposed project will be implemented on a Build, Own, and Operate (BOO) basis, following Operating Expenditure (OpEx). The conditions are set forth as-

- The contractor shall build, own and operate the whole system of 05 MWp rooftop solar system and shall dismantle the system at its own cost after completion of phase 2.
- The Data Acquisition System for AMR Metering (software and hardware) shall be procured, installed and commissioned by the contractor and shall be owned and operated by Bhola Palli Bidyut Samity. The cost associated with this Data Acquisition System for AMR Metering shall be deemed to have been included in the proposed tariff rate. The AMR Metering (software and hardware) will be the property of Bhola Palli Bidyut Samity during execution of the contract and even after completion of the contract period. The SIM cost and monthly MODEM communication cost during execution of the contract in phase 1 and phase 2 shall be borne by the contractor and the cost shall be deemed to have been included in the financial offer.
- The Inverter shall be configured to produce power at 0.85 power factor.

#### **Responsibilities of the Roof Owner**

- i. Provide rooftop space free of charge during installation of the System.
- ii. Ensure rooftop is structurally safe and accessible during the contract period.
- iii. Provide necessary cooperation to Bhola Palli Bidyut Samity & Contractor for installation, inspection and maintenance.
- iv. Ensure security of the installed System from unauthorized interference.
- v. Ensure availability of adequate water for the periodical cleaning of the solar panels.

### **3. Climatic Conditions**

All plant and equipment supplied under the Contract shall be entirely suitable for the climatic conditions prevailing at site. The area is designated a zone of moderate intensity for earthquakes. The seismic factor is 0.15 g.

Atmospheric pollution is mid-level and special insulator design or washing is not required. The area is subject to high winds of typhoon strength.

The offered goods/material must be suitable for working in the climate conditions of Bangladesh as described below:

|                             |                                    |
|-----------------------------|------------------------------------|
| Altitude                    | : 0-300 meters above the sea level |
| Maximum ambient temperature | : 48° C                            |
| Minimum ambient temperature | : 3°C                              |

|  |                                       |
|--|---------------------------------------|
| Humidity (maximum)                             | : 98%                                 |
| Average Humidity                               | : 70% (Dew point is reached at times) |
| Mean annual rainfall                           | : 1500-3000 mm                        |
| No. of annual rainy days                       | : 80-120 days                         |
| Average isokeraunic level                      | : 60 days/year                        |
| Pollution of ambient air                       | : dust, salt, chemicals               |
| Maximum daily average temperature              | : 35°C                                |
| Maximum wind velocity (3 second gust)          | : 160 Km/h                            |
| Minimum wind velocity for line rating purposes | : 1.6/3.2 Km/h (33/132kV)             |
| Solar radiation (No ice or snow expected)      | : 100mW/sq. cm                        |
| Atmospheric Pollution                          | : mid-level                           |
| Soil type                                      | : alluvial                            |
| Soil temperature (at 1.1m)                     | : 30°C                                |
| Soil thermal resistivity                       | : 1.5°C m/w                           |

The above information is solely given for the general assistance of Tenderers and no responsibility for it will be accepted nor will any claims based on this Clause be considered.

#### 4. Bhola Palli Bidyut Samity 's Electrical System Parameters

##### 32 kV Transmission System

|  |  |
|--|--|
| Normal Service Voltage                   | : 33 kV  |
| Rated Voltage                            | : 36 kV  |
| Impulse Voltage Withstand Level          | : 170 kV   |
| Number of Phase                          | : 3  |
| Frequency                                | : 50 Hz  |
| Switchgear Symmetrical Breaking Capacity | : 31.5 kA, 3 sec Bhola Palli Bidyut Samity may modify based on their system] |

The 33kV system is solidly earthed at the 132/33 kV Grid substations end (the source end of 33/11 KV substation) however at 33/11KV substation (, 33KV side has delta connection hence no earthing there at 33KV level.

##### 11 KV Distribution Systems

|                                 |         |
|---------------------------------|---------|
| Normal Service Voltage          | : 11 kV |
| Rated Voltage                   | : 12 kV |
| Impulse Voltage Withstand Level | : 75 kV |
| Number of Phase                 | : 3     |

|  |   |   |
|--|---|---|
| Frequency                                | : | 50 Hz   |
| Switchgear Symmetrical Breaking Capacity | : | 31.5 kA, 3 sec [Bhola Palli Bidyut Samity may modify based on their system] |
| System earthing                          | : | Solid   |

The 11kV distribution network is three phase unbalanced system.

### Low Voltage AC System

|                        |   |                |
|------------------------|---|----------------|
| Normal Service Voltage | : | 400/230 V      |
| Rated Voltage          | : | 415/240 V      |
| Number of Phase        | : | 3 phase 4 wire |
| Frequency              | : | 50 Hz          |
| System earthing        | : | Solid          |

### D.C System

For D.C. motor driven auxiliaries, tripping, indicating lamps and controls-

|                                   |   |                                    |
|-----------------------------------|---|------------------------------------|
| Normal battery voltage            | : | 110V nominal for new sub-stations. |
| Tolerance on rated voltage        | : | + 10%, -15%                        |
| Voltage at various existing sites | : | 30V, 48V, 110V, 220V, 31.50V.      |

For Supervisory and Telecommunications-

|                             |   |      |
|-----------------------------|---|------|
| Nominal System Voltage      | : | 48 V |
| Normal float charge voltage | : | 53 V |

## 5. Compliance with Ethical/ Integrity Standards

- (a) The tenderer and its related parties shall not have any actual or potential conflict of interest in relation to the project.
- (b) The tenderer must declare any relationship, ownership or interest that could influence or appear to influence its impartiality, objectivity or performance in the project, if any.
- (c) The tenderer shall adhere to the highest standards of integrity in participating in procurement process.
- (d) The tenderer must not engage in any form of corruption, fraud, misrepresentation, collusion or undue influence to gain an advantage in the tender process or during contract execution.
- (e) Any violation of this clause may lead to rejection of the bid, contract termination or legal action.

## 6. Suspension/ Debarment

- a. The tenderer, as well as any member of its Board of Directions or management, must not be subject to any government-imposed prohibition, suspension or blacklisting.

- b. The bidder shall submit a declaration affirming that neither it nor its management has ever been sanctioned, penalized or debarred by any government or statutory authority.

## 7. Technical & Regulatory Requirements

To ensure reliability, efficiency, and compliance with national standards, all installations must adhere to a set of technical and regulatory requirements.

### Nominal Capacity and Technical Impact Analysis:

Each rooftop installation will have a nominal minimum capacity of 10 kWp and shall have three phase inverter. There will be no upper limit on installed capacity, provided that rooftop feasibility and grid integration studies confirm viability. Prior to approval, the contractor must submit a **Detailed Technical Impact Analysis of the proposed solution to Bhola Palli Bidyut Samity's distribution network** to office of the Project manager of this project of Bhola Palli Bidyut Samity. This analysis should cover essential aspects such as voltage regulation, reactive power compensation, harmonic mitigation, fault ride-through capability, active power curtailment, safety protections, and system single-line diagrams.

### Standards for Solar Equipment:

All inverters deployed must be smart inverters, comply with relevant IEC standards, **SREDA-enlisted/ in the waiting list of SREDA for enlistment/ BSTI approved** and capable of remote monitoring. Similarly, PV modules must comply with relevant IEC standards and be **SREDA-enlisted/ in the waiting list of SREDA for enlistment/ BSTI approved**, ensuring high durability and performance. The bidder must also specify the country of manufacture for all inverters and PV panels.

### Integration of Existing Solar Systems:

The contractor will have the option to integrate or take over existing rooftop solar systems within the **Bhola Palli Bidyut Samity** area through proper negotiation and agreements with respective customers and shall mention it in their bid proposal.

### Site Change:

During **Phase 1 or 2** of the contract, where **site change or new site is required**, the contractor must obtain prior **approval from Bhola Palli Bidyut Samity**. All cost associated with site change shall be borne by the contractor.

### Compatibility of Data Acquisition System for AMR Metering with Multiple Meter Manufacturers

The Contractor shall ensure that the supplied Data Acquisition System for AMR Metering is compatible with meters from at least 03 (three) different manufacturers. For this purpose, tenderers shall propose meters from a minimum of 03 (three) different meter manufacturers at the tendering stage. Where the existing energy meter of the customer needed to be replaced with new net meter, the new net meter shall also be brought under this Data Acquisition System for AMR Metering and the associated cost shall be deemed to have been included in the financial offer.

During implementation, the Contractor shall install energy meters at various sites and shall ensure full data connectivity from all such meters. The minimum quantity of energy meters to be supplied for each of the proposed manufacturers shall be at least 30% of total energy meters to be supplied under this project. The MODEM may be unified.

#### **Electrical Interconnection:**

The Contractor shall be responsible for the design, construction, installation, testing, and commissioning of the electrical interconnection facilities up to the nearest Pole of Utility's Distribution Network. If the existing consumer meter needs to be replaced by net meter/bi-directional meter (refer to fig. 1, fig. 2, fig 3) or solar billing meter/RE meter (refer to fig. 4) that will be replaced by the Tenderer in accordance with applicable technical standards and Utility requirements. If the consumer have an existing substation whose capacity is lower than the solar system capacity to evacuate the solar power then fig 4 shall be considered.

#### **Connection Type:**

For proper interconnection of solar system with **Bhola Palli Bidyut Samity** 's network, the customer premises, where the solar systems are to be installed, must have an existing [*three-phase/single phase*] electrical connection from **Bhola Palli Bidyut Samity** .

#### **Distribution Network Upgradation**

Notwithstanding the above, any upgradation, augmentation, or modification of the existing Utility distribution network beyond the point of the nearest Pole of Utility's Distribution Network shall be done by utility. However, any facility required for interconnection up to the point of the nearest Pole of Utility's Distribution Network shall be under the scope of the tenderer including replacement of existing meter by net meter if necessary.

#### **Replacement of existing energy meter of customer with net meter:**

The contractor shall change the existing energy meter of customer with a three-phase net meter with modem if power from the solar system is not evacuated directly to distribution network of the Bhola Palli Bidyut Samity , refer to fig 1, fig 2 and fig 3 below.

The cost of replacing existing energy meter of customer with net meter and modem is deemed to be included in the Contractor's Proposed Tariff.

#### **Tri-partite Agreement:**

The Contractor shall be solely responsible for securing adequate space within the designated educational and healthcare institutions for installation of the proposed solar systems.

Following award of the contract, the Contractor shall submit a Tri-partite Agreement (TPA) in the format prescribed by Bhola Palli Bidyut Samity for each site. The TPA shall clearly specify the terms of site usage, the leased area, maintenance responsibilities, and the customer billing process.

## Carbon Credit Management and Claim

The contractor shall provide information and documentation to Bhola Palli Bidyut Samity regarding management and claim of carbon credit. Power division's policy / guide line will be followed regarding Carbon Credits / Renewable Energy Certificate (REC).

## 8. Operational Conditions

### Restrictions on Energy Sales and Excess Generation:

The energy generated under this program must strictly be **supplied to Bhola Palli Bidyut Samity only**; sales to third parties will not be permitted without prior written approval. In addition, **Bhola Palli Bidyut Samity** will not be **liable to pay for any generation beyond the contracted capacity**, meaning that excess generation will not be compensated.

### Power Quality and Grid Stability Requirements:

The plants must comply with the Electricity Grid Code 2019, ensuring no adverse effects on grid stability. This includes maintaining appropriate power factor, and providing **active (MW) and reactive (MVar) power control**. To meet these requirements, the contractor must install any **necessary reactive power compensation** equipment at its own cost in consultation with Bhola Palli Bidyut Samity. The system should also be equipped with provisions for frequency and voltage control, enabling seamless integration into the national grid as directed by the NLDC.

### Metering

The metering system shall comprise both solar meter and net meter, where applicable. The solar meter, equipped with Automated Meter Reading (AMR) capability, will serve as the basis for Bhola Palli Bidyut Samity 's payment to the Contractor. The net meter will be used for customer-side billing and shall also be under AMR system. Where needed, The Contractor shall be responsible for replacing the existing customer-end meter with a compliant net meter and shall bear all costs associated with procurement, installation, testing, and commissioning of the net meter.

The metering system used to measure Electricity and to monitor and coordinate operation of the Plant, shall be purchased, installed and maintained by the contractor at its own expense. All Meters, before installation, must be tested at the Meter Testing Laboratory of Bhola Palli Bidyut Samity upon payment of Bhola Palli Bidyut Samity 's prescribed testing fee and shall pass the test.

In case of meter change is required, the contractor needs to notify Bhola Palli Bidyut Samity and after proper approval, meter can be changed.

Metering Diagram:

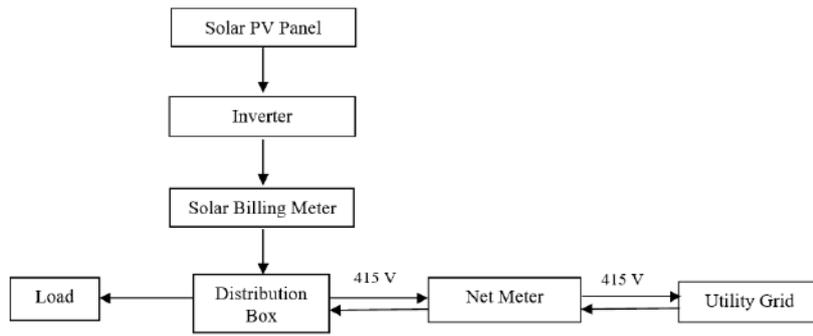


Figure 01: Metering Diagram for LT 3 Phase Customer

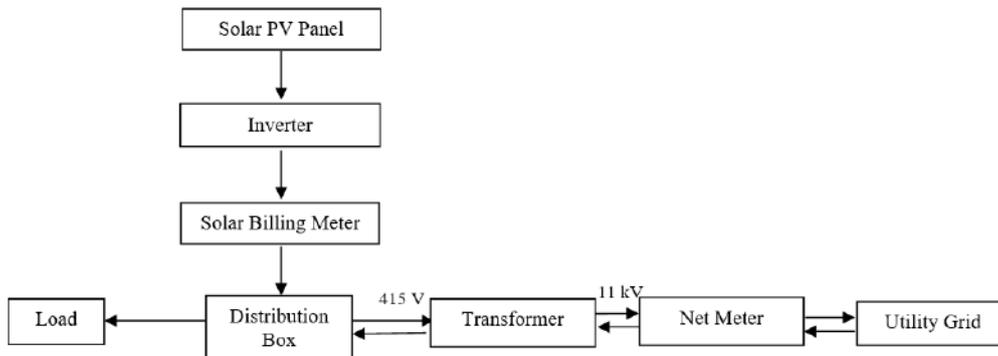


Figure 02: Metering Diagram for HT Customer

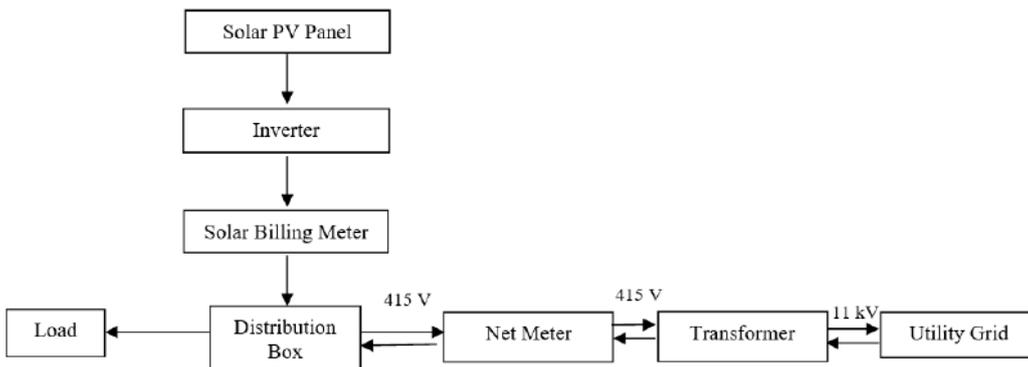


Figure 03: Metering Diagram for LTCT Customer

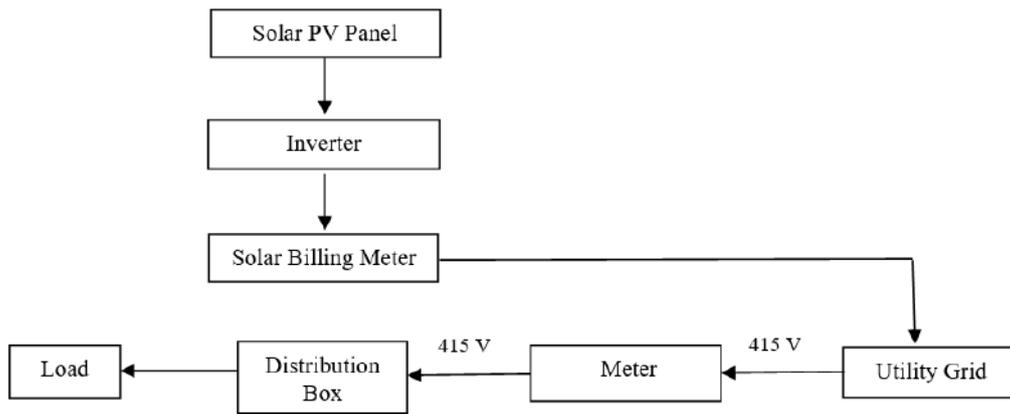


Figure 04: Metering Diagram for Direct Power Evacuation

**API for AMR system and local training to Bhola Palli Bidyut Samity personnel about meter integration in AMR through API, data analytics, AMR system operation and maintenance etc.:**

The contractor shall provide API and other required documents to Bhola Palli Bidyut Samity for integration of energy meters with the AMR system. The contractor shall organize local training on meter integration in AMR through API, remote data reading procedure, data analytics, AMR system operation and maintenance etc. to Bhola Palli Bidyut Samity personnel. The training shall be provided by the expert from AMR system solution provider before commencement of COD. The completion of this training is a pre requisite for commencement of COD. The associated cost shall be deemed to have been included in the financial offer of the contractor.

**Billing and AMR Communication:**

Billing will be based solely on meter reading data from AMR system. In cases of communication failure where **AMR data is not transmitted, billing will not be processed, and the contractor will be responsible** for resolving the issue at their own cost.

Monthly SIM cost shall be carried by the contractor.

**9. Financial Terms**

**Tariff Charges:**

Proposed Tariff Charges shall be less than 33 kV bulk rate of Bhola Palli Bidyut Samity at the time of bid submission. The **tariff structure will be based on the Proposed Tariff**. Financial evaluation will be limited to only Schedule-8 of the tender to ensure uniform assessment of bids. Other schedules (Schedule- 1 to 7) shall not be considered for financial evaluation.

**Roof Rent:**

The bidder's Proposed Tariff shall include roof rent cost to be paid to the roof owner/roof authority preferably on a monthly basis during the Phase-2 of the contract period. It is to be noted that no roof rent shall be paid during Phase-1 of the contract period.

The Roof rent amount per month will be equivalent to 10% of total generated electricity in that month multiplied by the Proposed Tariff quoted by the contractor or BDT 1000 whichever is higher. The roof rent amount shall be deducted from the monthly invoices of the contractor. Bhola Palli Bidyut Samity shall adjust this roof rent in the monthly electricity bill of the customer.

**Calculation of Monthly Bill to be paid by Bhola Palli Bidyut Samity to the Contractor:**

The contractor's bill/month shall be calculated as follows:

$$\text{Net bill payable} = (a \times m) - b$$

Where,

- a = Total solar energy generated on a particular roof in the month
- m = Proposed Tariff (BDT/KWh)
- b = roof rent = 10% of (a x m) or BDT 1000 whichever is higher

VAT, Income tax shall be deducted from bill as per govt. rule.

Bhola Palli Bidyut Samity shall adjust the roof rent with roof owner's monthly electricity bill.

**Calculation of Monthly Bill to be Paid by the Customer to Bhola Palli Bidyut Samity**

**a. Refer to Figure 01, 02 & 03 of Section 6.1, clause 8:**

The customer shall pay monthly electricity consumption bill to Bhola Palli Bidyut Samity as follows:

$$\text{Monthly Electricity Consumption Bill} = (a + b - c) * n - d$$

Where,

- a = Monthly solar generation (units) as recorded in the solar generation meter.
- b = Monthly electricity import (units) as recorded in the net energy meter.
- c = Monthly electricity export (units) as recorded in the net energy meter.
- n = Tariff rate of the customer (Peak /Off peak/flat/ slab tariff, which one applicable).
- d = roof rent = 10% of total monthly generation \* Proposed Tariff quoted by the contractor or BDT 1000 whichever is higher.

In this case, the existing meter of the customer shall be replaced by net energy meter by the contractor. The cost is deemed to be included in Proposed Tariff.

**b. Refer to Figure 04 of Section 6.1, clause 8:**

The customer shall pay monthly electricity consumption bill to Bhola Palli Bidyut Samity as follows:

$$\text{Monthly Electricity Consumption Bill} = a - b$$

Where,

- a = Monthly electricity bill corresponding to reading (units) as recorded in the energy meter.
- b = roof rent = 10% of total monthly generation \* Proposed Tariff quoted by the contractor or BDT 1000 whichever is higher.

### **Damage Liability and Repair Responsibility**

In the event that any damage occurs to the rooftop structure, building, or associated facilities during the installation, testing, commissioning or operation of the solar system, the Contractor shall be fully responsible for repairing such damage at its own cost. All repairs shall be carried out to restore the affected property to its original condition, subject to approval by the building owner/ concerned authority. The Contractor shall also ensure that all safety measures are taken during installation to prevent such damages.

### **10. Post-Delivery Inspection**

After the goods arrive at contractor's designated store or project site, a committee appointed by Bhola Palli Bidyut Samity will carry out a post-delivery inspection. The Contractor will be informed of the inspection schedule and should send its representative to be present during the inspection.

The committee will prepare a report mentioning the actual quantity and quality of goods received. The inspection will generally include, but not be limited to:

- (i) Visual inspection of the equipment to check for damages or defects.
- (ii) Checking conformity with approved drawings, specifications, and standards (type, size, rating, etc.).
- (iii) Verifying the supplied quantities against the Packing List and Contract.
- (iv) Checking manufacturer's test certificates, warranties, and related documents.

Cost of conducting Post-Delivery Inspection shall be borne by the contractor is deemed to be included in the contractor's price offer.

### **11. COD Schedule:**

COD for all proposed sites shall commence at once, however, Multiple COD may be considered upon request from the contractor. It is to be noted that COD or last COD (in case of multiple COD) shall be completed within the completion period of phase 1 of this contract. Otherwise, LD will be imposed.

**12. Keeping the communication of Data Acquisition System for AMR Metering active and maintenance of the System:**

It will be responsibility of the contractor to-

- a. keep the communication of Data Acquisition System for AMR Metering active for the whole contract period in phased 2.
- b. continue regular maintenance work including cleaning of the panels of the all PV Systems for getting maximum power generation
- c. replace any faulty or underperforming equipment, if necessary, during the contract period upon notifying Bhola Palli Bidyut Samity .

**13. Dismantling & Site Handover**

At the end of the 20-year contract period of phase 2, the contractor shall dismantle and remove all PV panels, inverters, mounting structures, and balance-of-system components at no cost to Bhola Palli Bidyut Samity. The contractor will also be required to restore the site to its original condition within maximum 90 days of contract expiry. **Bhola Palli Bidyut Samity will retain ownership of Data Acquisition System for AMR Metering.**

**14. Performance Guarantee/ Security**

The Contract Period shall be divided into 02 (two) distinct phases. Performance Security shall be applicable to Phase 01 only in the following manner:

- Duration of this phase shall be 06 months from the date of effective date.
- The Contractor shall submit a Performance Security of BDT 20,68,000.00 *or equivalent USD.*
- The Performance Security shall remain valid until the Commercial Operation Date (COD).
- Performance Security must be endorsed by any Schedule Bank of Bangladesh.

**15. Exclusion Charge**

If the solar system at a site needed to be changed/shifted/dismantled due to request from the site owner, exclusion charge will be applicable in favor of the contractor and the site owner shall pay the exclusion charge.

**16. The benefits under initiative b of national solar program 2025**

The project under model 3 of Initiative B of national solar program 2025 will deliver multifaceted benefits. Institutions such as schools and hospitals will enjoy significant cost savings and reliable electricity supply, supporting improved education and healthcare services. On a national scale, the project will strengthen energy security, reduce dependence on imported fossil fuels, and accelerate the expansion of renewable energy capacity. Environmentally, the project will lower carbon emissions, contributing to Bangladesh's global climate commitments.

Additionally, it will stimulate job creation and capacity building within the renewable energy sector. By integrating distributed solar power into its network, **Bhola Palli Bidyut Samity** will enhance its role as a leader in sustainable energy solutions.

## 6.2 Specification

### Description of the Major Items:

#### a. Solar PV Module

- 1) Type: a. Monocrystalline Silicon or Polycrystalline Silicon
  - b. Additional Types:  Not required,  Half-cut,  PERC,  Bifacial;(to be selected by service receiver)
- 2) Minimum Efficiency: 22%
- 3) Capacity range: Minimum 500 Wp, per panel
- 4) Performance Degradation Limits: First-year degradation:  $\leq 2\%$ , Annual degradation:  $\leq 0.45\%$  from year 2 onward; 25-year performance warranty:  $\geq 87.2\%$  of initial output
- 5) Fill Factor: 0.78
- 6) Maximum System Voltage of PV module: It should be higher than the selected inverter's maximum string voltage capacity (e.g.. 1500 V DC, to be mentioned by the bidder)
- 7) Minimum operating temperature range:  $-20^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- 8) Standard Compliance: IEC 61215-1:2021, IEC 61215-2:2021, IEC 61730-1-2023, IEC 61730-2:2023 or its latest version published by IEC.
- 9) Accepted Test Reports and Certificates for required standards: Test reports should be from laboratories accredited by ILAC MRA; Certificates should be from certification bodies accredited by IAF MLA
- 10) Must be listed at SREDA for the Net Metering Program before installation of the project
- 11) Sample testing of solar modules, inverters, and other components will be required by the bidder when the procuring entity procures systems for multiple sites with a minimum cumulative capacity of 100kWp. Test reports from BCSIR, BUET, CUET, KUET, RUET, DUET, or MIST will be accepted unless an accredited laboratory is established in Bangladesh for the respective solar items (procuring entity will select)
- 12) **BOM (Bill of Materials) Requirements:** > Glass: 3.2 mm tempered for unifacial and 2.0 mm tempered for bifacial, low-iron, anti-reflective coated; Encapsulant: Cross-linked EVA or POE with UV resistance; Backsheet: UV-stabilized, triple-layer (e.g., TPT); Junction Box: IP68-rated with bypass diodes; Frame: 32-42 mm anodized aluminum
- 13) Pmax Temperature Coefficient:  $\leq 0.37\%/^{\circ}\text{C}$
- 14) **LID** (Light-Induced Degradation): Must be  $< 2\%$ , and **PID**(Potential Induced Degradation) resistance: Must comply with IEC 62804-1 at  $85^{\circ}\text{C}$ , 85% RH, -1000V for 96 hrs
- 15) **Static Mechanical Load:** Modules shall withstand a positive load of 5400 Pa and a negative load of 2400 Pa per IEC 61215/61730 without cracks, deformation, or loss of performance

16) **Wind Load:** Modules shall resist wind-induced negative pressure of 2400 Pa per IEC 61215/61730 with no visible damage or Pmax loss

17) The module OEM must be ranked within the top 10 of the BloombergNEF Tier-1 list in the last quarter of the previous calendar year, counted from the last date of submission. In addition, modules manufactured in Bangladesh will be accepted, provided the production process is at least one stage behind (from cell to module) and the modules meet the same quality standards.

**18) Warranty:**

a. Product Warranty (Defects in materials, manufacturing, or workmanship; Covers issues like delamination, glass breakage (non-external cause), junction box failure, frame corrosion, or hot spots): Minimum 2 years

b. Performance Warranty (Power Output Guarantee): 25 years as mentioned in #4

19) All warranty rights for solar modules shall be issued in the name of the Procuring Entity, fully transferable and enforceable, thereby entitling the Procuring Entity to directly claim warranty services from the original manufacturer or its authorized representative for the entire warranty period

20) The bidder must specify the proposed solar module's brand, model, rated capacity, and types.

**b. Grid-tied Inverter**

1) Type: String Inverter (At least IMPPT unit for each 10 kW)

2) Minimum Capacity of each inverter: Minimum 20% of the site capacity, but a higher capacity will be preferable

3) Minimum Efficiency: 98% EU standard

4) THD on output voltage: 3%

5) Operating power factor range: range should be minimum 0.85 lag- 0.85 lead

6) Minimum operating temperature range: -25°C to +60°C

7) Maximum relative humidity tolerance: 100%

8) Ground fault monitoring: Yes

9) DC reverse polarity protection: Yes

10) AC short circuit protection: Yes

11) SPD protection on the DC side: Yes

12) The bidder must specify the proposed solar inverter's brand, model, rated capacity, and types.

13) Must support anti-islanding protection, Low Voltage Ride Through (LVRT), Reactive power control/Q(V) control, Frequency-Watt/Volt-Watt curve settings

14) Standard Compliance: IEC 61727:2004, IEC 62116:2014, IEC 62109-1:2010, IEC 62109-2:2011 or its latest version published by IEC.

- 15) Accepted Test Reports and Certificates for required standards: Test reports should be from laboratories accredited by ILAC MRA; Certificates should be from certification bodies accredited by IAF MLA
- 16) Must be listed at SREDA for Net Metering Program before installation of the project
- 17) Sample testing of solar modules, inverters, and other components will be required by the bidder when the procuring entity procures systems for multiple sites with a minimum cumulative capacity of 80 kW AC. Test reports from BCSIR, BUET, CUET, KUET, RUET, DUET, or MIST will be accepted unless an accredited laboratory is established in Bangladesh for the respective solar items (procuring entity will select)
- 18) Communication and Monitoring: Built-in support for RS-485, Modbus, Ethernet/Wi-Fi. In addition, GSM with SIM card support may be preferable
- 19) Cloud-based monitoring portal with 10+ years free access
- 20) Must have a LCD display
- 21) Warranty: Minimum Syears
- 22) All warranty rights for solar inverters shall be issued in the name of the Procuring Entity, fully transferable and enforceable, thereby entitling the Procuring Entity to directly claim warranty services from the original manufacturer or its authorized representative for the entire warranty period

### **c. Mounting Structure**

1. Material: Galvanized steel or aluminum with the following quality
  - a. Aluminum: 6063-T5/T6 or equivalent corrosion-resistant alloy
  - b. Steel: Hot-dip galvanized/stainless steel with  $\geq 80$   $\mu\text{m}$  zinc coating
2. Tilt Type: Fixed tilt should be preferable unless essential
3. Tilt angle: The angle shall be optimized to balance energy generation, cost-effectiveness, and safety considerations
4. Design: Based on roof type (flat or sloped); considering rooftop load and wind load
5. Structure Type: (Allowable options should be selected by the procuring entity)
  - a. Industrial Shade:  Standing Seam Clamp Mounting,  Penetrative Rail Mounting
  - b. Concrete Roof:  Penetrative Fixed Tilt,  Ballasted (Non-Penetrative),  Hybrid (Ballast + Anchoring),  Adjustable Tilt,  East-West Tilt,  Elevated/Superstructure
6. Necessary walkway and ladder should be added for an industrial shade or equivalent rooftop
7. Quality of welding, bolt threads, clamp finishing, and rail straightness; wherever applicable, materials and workmanship should be selected to ensure durability for the entire project lifetime
8. Wind speed sustainability: 200 km/h

9. Locally manufactured mounting structures meeting required structural and quality standards shall be preferred
10. Lifetime of Mounting Structures: Minimum 25 years.

**d. Energy Meters**

- a. Solar Energy Generation Counting Meter: One or more, according to the Net Metering Guideline, based on the point of common coupling
- b. Bi-directional Net Meter: According to Net Metering Guideline (One or more based on the number of Bhola Palli Bidyut Samity. connections, if the existing energy meter is not capable of reprogramming)
- c. Must comply with national standards and related Bhola Palli Bidyut Samity requirements
- d. Meters shall support communication protocols as specified in GTP, suitable for remote monitoring and Bhola Palli Bidyut Samity integration.
- e. Accuracy class of Energy meters shall be as per GTP, in accordance with IEC 62053-22 (active energy), IEC 62053-23 (reactive energy, if required), and IEC 62052-11 (general requirements), calibrated and certified by a recognized authority
- f. Must be tamper-proof, sealed, and weatherproof (IP54 or better for outdoor installation)
- g. Warranty (replacement): Minimum 3 years.
- h. Software Shall be provided with unlimited validity in Memory Stick. 15 nos. of Optical Cord (i.e. Optical Port of Meter to PC) shall be of USB type for connecting with PC shall also be provided under this contract. Direct serial port (9pin) is not acceptable.

**e. DC and AC Cabling**

- a. DC cables: UV-protected, XLPO-insulated copper wires
  - i. Current carrying capacity: Minimum 1.5 times of string/array short-circuit current
  - ii. Voltage: Must be capable of string open-circuit voltage(600/1000/1500 V DC, as designed)
  - iii. Flame retardant: Comply with IEC 62930/UL 4703
  - iv. Voltage drop: Typically  $\leq 2-3\%$  for string wiring
  - v. Polarity marking: Must be marked with durable labels during the installation period
  - vi. Expected lifetime: 20 years
  - vii. Warranty: Minimum 5 years
- b. AC cables: Armored, flame-retardant, copper conductors
  - i Cable must be brand new, unused, and free from defects
  - ii. Comply with international (IEC, UL) or national standards
  - iii. Current carrying capacity: Minimum 125% of the rated current

- iv. Insulation material:  XLPE or  NYY-F or PVC (to be selected by the procuring entity, try to avoid PVC)
- v. Expected lifetime: 20 years
- vi. Warranty: Minimum 5 years

c. Cables manufactured locally in Bangladesh, provided they fully comply with relevant IEC standards and specified technical requirements without compromising quality, shall be given preference during procurement

d. Accessories: Quality Cable trays, connectors, lugs, ferrules, conduits

#### **f. Monitoring System**

- a. Online monitoring unit integrated with the inverter or independent
- b. 4G/5G, Wi-Fi/LAN, and RS485/Modbus TCP/IP for robust data transfer
- c. PCMS shall be preferred for solar plants with a capacity of 50 kW and above, while SCADA shall be preferred for plants with a capacity of 500 kW and above
- d. Shall perform data acquisition and logging, performance monitoring, fault detection and alerts, secure communication, grid compliance reporting, and integration with higher-level systems (PCMS/SCADA)
- e. Solar monitoring systems with IEC 62443 cybersecurity certification will be given preference
- f. Warranty: Minimum 5 years

#### **g. Circuit Breakers**

1. The contractor shall supply and install high-quality circuit breakers for AC and DC circuits of the rooftop solar PV system (quantity should be based on design), and 1 MCCB before the AC interconnection point of each independent system ensuring safe and reliable operation throughout the project life
2. All circuit breakers shall comply with IEC 60947-2 for low-voltage switchgear or equivalent international standards
3. Equipment shall be 'UL' listed or 'CE' marked
4. DC Circuit Breakers: Rated for PV system voltage (600-1500 V DC) and designed to interrupt maximum expected DC fault current.
5. AC Circuit Breakers: Rated for system voltage (230 V single-phase or 400 V three-phase), continuous current > 125% of inverter full-load current.
6. Short-circuit breaking capacity shall exceed prospective fault current at point of installation.
7. Selective coordination shall be ensured to minimize tripping of upstream/downstream breakers.

8. All breakers must be clearly marked with manufacturer, rated voltage, current, breaking capacity, and type designation.
9. Polarities for DC breakers must be clearly indicated.
10. Warranty: Minimum 2 years

#### **h. Combiner Boxes/Junction Boxes**

1. DC Combiner Boxes: For grouping panel strings
2. AC Distribution Box: For connecting inverters to LT panel
3. Protections: MCB, MCCB, SPD, isolators, fuses may be placed
4. The contractor shall supply, install, and commission high-quality combiner boxes and junction boxes to ensure safe collection, protection, and distribution of PV string currents, for both DC, AC sides, and related places as applicable
5. Enclosure: Aluminum, stainless steel, or UV-stabilized polycarbonate
6. Coating: Powder-coated or corrosion-resistant surface for rooftop exposure
7. Mounting: Wall-mounted or pole-mounted options with secure fasteners
8. Internal Components: Busbars, terminals, breakers/fuses, surge protection devices (if included) must be properly rated for PV string currents
9. Must be capable of related voltage level
10. Minimum IP65 for outdoor rooftop installation; IP64 for indoor/covered areas
11. Material and design must withstand UV, heat, and corrosion

#### **i. Lightning and Surge Protection**

##### **1. External Lightning Protection System (LPS)**

- a. Solar system should be under full coverage with necessary safety factors
- b. Air terminals (lightning rods) on rooftop to intercept strikes
- c. Down conductors to safely guide lightning to grounding system
- d. Grounding electrodes with low resistance ( $<5 \Omega$ , but  $<12 \Omega$  is preferable)

##### **2. Surge Protection Devices (SPDs)**

- a. Should be installed at DC and AC sides of inverters, if not built-in with the inverter
- b. Should protect sensitive electronics from induced surges and transient over voltages

##### **3. Proper Earthing & Bonding**

- a. All metal structures, module frames, mounting structures, combiner boxes, and inverters must be electrically bonded and grounded
- b. Grounding resistance: typically  $<1 \Omega$

## Guaranteed Technical Particulars (GTP)

### 1. Solar PV Panel

*(To be filled appropriately, then signed and sealed by both Tenderer and Manufacturer in Manufacturer's Letterhead Pad)*

| Sl. No. | Description                             | Unit | Required Specification   | Manufacturer's Particulars |
|---------|---|------|--|----------------------------|
| 1.1     | Name of Manufacturer                    | -    | To be mentioned  |                            |
| 1.2     | Country of Manufacturer                 | -    | To be mentioned  |                            |
| 1.3     | Address of the Manufacturer             | -    | To be mentioned  |                            |
| 2       | Type & Model Requirement                | -    |  |                            |
| 2.1     | Cell Type                               | -    | Monocrystalline Silicon or Polycrystalline Silicon   |                            |
| 2.2     | Panel Model number                      | -    | To be mentioned  |                            |
| 2.3     | Output Power at STC condition           | Wp   | $\geq 500$ Wp  |                            |
| 2.4     | Power Tolerance                         | %    | 0~+3% of Output Power  |                            |
| 3       | Certifications and Standards Compliance | -    | IEC 61215-1:2021, IEC 61215-2:2021, IEC 61730-1:2023, IEC 61730-2:2023 or its latest version published by IEC  |                            |
| 4       | Enlistment                              | -    | SREDA-enlisted/ in the waiting list of SREDA for enlistment/ BSTI approved   |                            |
| 5       | Module Efficiency                       | %    | $\geq 22\%$  |                            |
| 6       | Performance Degradation Limits          | %    | First-year degradation: $\leq 2\%$ , Annual degradation: $\leq 0.45\%$ from year 2 onward; 25-year performance warranty: $\geq 87.2\%$ of initial output |                            |
| 7       | Fill Factor                             | -    | 0.78   |                            |
| 8       | Number of Cells                         | Nos  | To be mentioned  |                            |
| 9       | Module Dimensions                       | mm   | To be mentioned  |                            |

| Sl. No. | Description                                    | Unit | Required Specification  | Manufacturer's Particulars |
|---------|--|------|---|----------------------------|
|         | (L×W×T)  |      |   |                            |
| 10      | Weight   | kg   | Approx. 27-32 kg  |                            |
| 11      | Operating Temperature                          | °C   | -20°C to +85°C  |                            |
| 12      | Nominal Operating Cell Temperature (NOCT)      | °C   | 42 ± 2°C  |                            |
| 13      | Pmax Temperature Coefficient                   | %/°C | ≤0.37%/°C   |                            |
| 14      | LID (Light-Induced Degradation)                | %    | Must be <2%   |                            |
| 15      | PID (Potential Induced Degradation) resistance | -    | Must comply with IEC 62804-1 at 85°C, 85% RH, -1000V for 96 hrs     |                            |
| 16      | Voltage & Current Parameters                   | -    |   |                            |
| 16.1    | Open Circuit Voltage (Voc)                     | V    | To be mentioned   |                            |
| 16.2    | Short Circuit Current (Isc)                    | A    | To be mentioned   |                            |
| 16.3    | Maximum Power Voltage (Vmp)                    | V    | To be mentioned   |                            |
| 16.4    | Maximum Power Current (Imp)                    | A    | To be mentioned   |                            |
| 17      | Maximum Series Fuse Rating                     | A    | 25A   |                            |
| 18      | Protection Class                               | -    | Class II  |                            |
| 19      | Glass Type                                     | -    | Tempered, heat strengthened glass, low-iron, anti-reflective coated |                            |
| 20      | Thickness of front Glass                       | -    | > 3.2 mm tempered for unifacial and 2.0 mm tempered for bifacial    |                            |
| 21      | Encapsulant                                    | -    | Cross-linked EVA or POE with UV resistance                          |                            |
| 22      | Backsheet                                      | -    | UV-stabilized, triple-layer   |                            |

| Sl. No. | Description                        | Unit | Required Specification   | Manufacturer's Particulars |
|---------|------------------------------------|------|--|----------------------------|
|         |                                    |      | (e.g., TPT)  |                            |
| 23      | Frame Material                     | -    | 32-42 mm anodized aluminum   |                            |
| 24      | Junction Box                       | -    | IP68 rated with bypass diodes  |                            |
| 25      | Connector Type                     | -    | MC4 or compatible  |                            |
| 26      | Mechanical Loading                 | -    |  |                            |
| 26.1    | Front Side maximum Static Loading  | Pa   | 5400   |                            |
| 26.2    | Rear Side maximum Static Loading   | Pa   | 2400   |                            |
| 27      | Fire Rating                        | -    | IEC Class C or better  |                            |
| 28      | Wind Load                          | Pa   | Modules shall resist wind-induced negative pressure of 2400 Pa per IEC 61215/61730 with no visible damage or Pmax loss   |                            |
| 29      | Module OEM Rank                    | -    | The module OEM must be ranked within the top 10 of the BloombergNEF Tier-1 list in the last quarter of the previous calendar year; counted from the last date of submission.             |                            |
| 30      | Modules Manufactured in Bangladesh | -    | Modules manufactured in Bangladesh will be accepted, provided the production process is at least one stage behind (from cell to module) and the modules meet the same quality standards. |                            |
| 31      | Product Warranty (Defects          | -    | Minimum 2 years  |                            |

| Sl. No. | Description   | Unit | Required Specification   | Manufacturer's Particulars |
|---------|---|------|--|----------------------------|
|         | in materials, manufacturing, or workmanship; Covers issues like delamination, glass breakage (non-external cause}, junction box failure, frame corrosion, or hot spots) |      |  |                            |
| 32      | Performance Warranty (Power Output Guarantee)   | -    | 25 years   |                            |
| 33      | Warranty Rights   | -    | All warranty rights for solar modules shall be issued in the name of the Procuring Entity, fully transferable and enforceable, thereby entitling the Procuring Entity to directly claim warranty services from the original manufacturer or its authorized representative for the entire warranty period   |                            |
| 34      | Sample Testing  | -    | Sample testing of solar modules, inverters, and other components will be required by the bidder when the procuring entity procures systems for multiple sites with a minimum cumulative capacity of 100kWp. Test reports from BCSIR, BUET, CUET, KUET, RUET, DUET, or MIST will be accepted unless an accredited laboratory is established in Bangladesh for the |                            |

| Sl. No. | Description | Unit | Required Specification   | Manufacturer's Particulars |
|---------|-------------|------|--|----------------------------|
|         |             |      | respective solar items (procuring entity will select)  |                            |
| 35      | Test Report | -    | Accepted Test Reports and Certificates for required standards: Test reports should be from laboratories accredited by ILAC MRA; Certificates should be from certification bodies accredited by IAF MLA |                            |

*for manufacturer:*

Name:

Designation:

Email:

Phone No:

Seal & Signature with Date:

*for tenderer:*

Name:

Designation:

Email:

Phone No:

Seal & Signature with Date:

*N.B: the above information shall be clearly filled up by both manufacturer and tenderer.*

## 2. On-Grid Solar Inverter

*(To be filled appropriately, then signed and sealed by both Tenderer and Manufacturer in Manufacturer's Letterhead Pad)*

| Sl. No. | Description                             | Unit | Required Specification   | Manufacturer's Particulars |
|---------|---|------|--|----------------------------|
| 1.1     | Name of Manufacturer                    | -    | To be mentioned  |                            |
| 1.2     | Country of Manufacturer                 | -    | To be mentioned  |                            |
| 1.3     | Address of the Manufacturer             | -    | To be mentioned  |                            |
| 2.1     | Inverter Type                           | -    | String Inverter (At least 1 MPPT unit for each 10 kW)  |                            |
| 2.2     | Model Number                            | -    | To be mentioned  |                            |
| 2.3     | Certifications and Standards Compliance | -    | IEC 61727:2004, IEC 62116:2014, IEC 62109-1:2010, IEC 62109-2:2011 or its latest version published by IEC. |                            |
| 2.4     | Nominal AC Output Power                 | kW   | To be mentioned  |                            |
| 2.5     | Minimum Capacity of Each Inverter       | -    | Minimum 20% of the project capacity, but a higher capacity will be preferable                              |                            |
| 2.6     | Enlistment                              | -    | SREDA-enlisted/ in the waiting list of SREDA for enlistment/ BSTI approved                                 |                            |
| 3       | DC Input Parameters                     |      |  |                            |
| 3.1     | Maximum DC Input Voltage                | V    | 1100V DC   |                            |
| 3.2     | MPPT Voltage Range                      | V    | 200V – 1000V   |                            |
| 3.3     | Start-up Voltage                        | V    | ≥ 250V   |                            |
| 3.4     | Number of MPPTs                         | -    | At least 1 MPPT unit for each 10 kW  |                            |
| 3.5     | Strings per MPPT                        | -    | ≥ 2 Strings per MPPT   |                            |
| 3.6     | Maximum DC Input Current per MPPT       | A    | To be mentioned  |                            |
| 3.7     | Maximum DC short circuit Current        | A    | To be mentioned  |                            |

| Sl. No. | Description  | Unit         | Required Specification                                  | Manufacturer's Particulars |
|---------|--|--------------|---|----------------------------|
|         | per MPPT   |              |   |                            |
| 4       | AC Output Parameters   | -            |   |                            |
| 4.1     | Nominal AC Output Voltage                                    | V            | 415V (L-L)  |                            |
| 4.2     | Input Frequency  | Hz           | 50Hz $\pm$ 5%   |                            |
| 4.3     | Output Frequency   | Hz           | 50Hz $\pm$ 1%   |                            |
| 4.4     | Power Factor Range   |              | 0.85 lagging to 0.85 leading (adjustable)               |                            |
| 4.5     | THD at rated power   | %            | $\leq$ 3%   |                            |
| 5       | Minimum Efficiency   | %            | 98% EU Standard   |                            |
| 6       | Cooling  | -            | Natural or Forced air cooling                           |                            |
| 7       | Protection Features  | -            |   |                            |
| 7.1     | DC Reverse Polarity Protection                               | -            | Yes   |                            |
| 7.2     | Over Voltage Protection (DC & AC)                            | -            | Yes   |                            |
| 7.3     | Overcurrent Protection (DC & AC)                             | -            | Yes   |                            |
| 7.4     | Under Voltage Protection (AC)                                | -            | Yes   |                            |
| 7.5     | Anti-islanding Protection                                    | -            | Yes   |                            |
| 7.6     | AC Short Circuit Protection                                  | -            | Yes   |                            |
| 7.7     | Ground Fault Monitoring                                      | -            | Yes   |                            |
| 7.8     | Temperature Protection                                       | -            | Yes   |                            |
| 7.9     | Integrated SPD (DC & AC)                                     | -            | Yes   |                            |
| 8       | Communication Interface                                      | -            | RS485, Wi-Fi, Ethernet, Modbus TCP/IP                   |                            |
| 9       | Display / HMI  | -            | LCD display   |                            |
| 10      | Remote monitoring  | -            | Shall have remote monitoring feature via app/web portal |                            |
| 11      | Ingress Protection   |              | IP65 or better  |                            |
| 12      | Operating Temperature Range                                  | $^{\circ}$ C | -25 $^{\circ}$ C to +60 $^{\circ}$ C                    |                            |
| 13      | Noise Level  | dB           | $\leq$ 65 dB  |                            |
| 14      | Max. permissible value for relative humidity (noncondensing) | %            | 100%  |                            |

| Sl. No. | Description        | Unit | Required Specification   | Manufacturer's Particulars |
|---------|--------------------|------|--|----------------------------|
| 15      | Setting Submission | -    | Must support anti-islanding protection, Low Voltage Ride Through (LVRT), Reactive power control/Q(V) control, Frequency-Watt / Volt-Watt curve settings  |                            |
| 16      | Warranty           | -    | Minimum 5 years  |                            |
| 17      | Warranty Rights    | -    | All warranty rights for solar inverters shall be issued in the name of the Procuring Entity, fully transferable and enforceable, thereby entitling the Procuring Entity to directly claim warranty services from the original manufacturer or its authorized representative for the entire warranty period |                            |
| 18      | Sample Testing     | -    | Sample testing of solar modules, inverters, and other components will be required by the bidder when the procuring entity procures systems for multiple sites with a minimum cumulative capacity of 80 kW AC. Test reports from BCSIR, BUET, CUET, KUET, RUET, DUET, or                                    |                            |

| Sl. No. | Description | Unit | Required Specification   | Manufacturer's Particulars |
|---------|-------------|------|--|----------------------------|
|         |             |      | MIST will be accepted unless an accredited laboratory is established in Bangladesh for the respective solar items (procuring entity will select)   |                            |
| 19      | Test Report | -    | Accepted Test Reports and Certificates for required standards: Test reports should be from laboratories accredited by ILAC MRA; Certificates should be from certification bodies accredited by IAF MLA |                            |

for manufacturer:

Name:  
 Designation:  
 Email:  
 Phone No:  
 Seal & Signature with Date:

for tenderer:

Name:  
 Designation:  
 Email:  
 Phone No:  
 Seal & Signature with Date:

*N.B: the above information shall be clearly filled up by both manufacturer and tenderer.*

### 3. PV Mounting Structures

(To be filled up appropriately, then to be signed and sealed by both Tenderer and Manufacturer in Manufacturer's Letterhead Pad)

| Sl. No. | Description                                  | Unit             | Required Specification   | Manufacturer's Particulars |
|---------|--|------------------|--|----------------------------|
| 1.1     | Name of Manufacturer                         |                  | To be mentioned  |                            |
| 1.2     | Country of Manufacturer                      |                  | To be mentioned  |                            |
| 1.3     | Address of the Manufacturer                  |                  | To be mentioned  |                            |
| 2       | Type & Model Requirement                     |                  |  |                            |
| 2.1     | Structure Type                               |                  | Galvanized steel or aluminum with the following quality<br>a. Aluminum: 6063-T5/T6 or equivalent corrosion-resistant alloy<br>b. Steel: Hot-dip galvanized / stainless steel with $\geq 80 \mu\text{m}$ zinc coating |                            |
| 2.2     | Mounting Type                                |                  | Ground-mounted / Rooftop   |                            |
| 2.3     | Orientation                                  |                  | Landscape / Portrait (as per design) in south direction  |                            |
| 2.4     | Tilt Type                                    |                  | Fixed tilt should be preferable unless essential   |                            |
| 2.5     | Tilt angle                                   |                  | The angle shall be optimized to balance energy generation, cost-effectiveness, and safety considerations   |                            |
| 3       | Design                                       |                  |  |                            |
| 3.1     | Standards                                    |                  | IEC 62548 or equivalent  |                            |
| 3.2     | Consideration                                |                  | Based on roof type (flat or sloped); considering rooftop load and wind load  |                            |
| 4       | Wind Load Withstand Capacity                 | N/m <sup>2</sup> | Minimum 2400 N/m <sup>2</sup>  |                            |
| 5       | Snow Load Withstand Capacity (if applicable) | N/m <sup>2</sup> | Minimum 5400 N/m <sup>2</sup>  |                            |

| Sl. No. | Description               | Unit    | Required Specification                             | Manufacturer's Particulars |
|---------|---------------------------|---------|--|----------------------------|
| 6       | Wind Speed Sustainability | Km/h    | 200 km/h   |                            |
| 7.1     | Galvanization Thickness   | Microns | Minimum 80 microns (if GI)                         |                            |
| 7.2     | Corrosion Resistance      |         | Yes, suitable for coastal/high humidity areas      |                            |
| 8       | Fasteners and Bolts       |         | Stainless Steel (SS 304/316), Anti-corrosive       |                            |
| 9       | Foundation Type           |         | RCC  |                            |
| 10      | Panel Fixing Method       |         | Mid & end clamps (aluminum/SS)                     |                            |
| 11      | Installation Tolerance    | mm      | ±5 mm in all directions                            |                            |
| 12      | Earthing Provision        |         | Yes, with dedicated earthing points                |                            |
| 13      | Expansion Provision       |         | Modular design, scalable                           |                            |
| 14      | Maintenance Accessibility |         | Easy access for cleaning & service                 |                            |
| 15      | Expected Lifespan         | Years   | ≥ 25 years   |                            |
| 16      | Compatibility             |         | Compatible with framed PV modules of proposed size |                            |
| 17      | Visual Appearance         |         | Clean, rust-free, and uniform finish               |                            |

**for manufacturer:**

Name:

Designation:

Email:

Phone No:

Seal &amp; Signature with Date:

**for tenderer:**

Name:

Designation:

Email:

Phone No:

Seal &amp; Signature with Date:

*N.B: the above information shall be clearly filled up by both manufacturer and tenderer.*

#### 4. 415 Volt 3-Phase, 4-Wire, 3-Element, CT Operated Programmable Type Solid State Energy Meter

(To be filled up appropriately, then to be signed and sealed by both Tenderer and Manufacturer in Manufacturer's Letterhead Pad)

| Sl. No. | Description  | Unit | Required Specification  | Manufacturer's Particulars |
|---------|--|------|---|----------------------------|
| 1       | Name of the manufacturer                                   | -    | To be mentioned   |                            |
| 2       | Address of the manufacturer                                | -    | To be mentioned   |                            |
| 3       | Country of manufacture                                     | -    | To be mentioned   |                            |
| 4       | Reference Standard   | -    | IEC 62052-11, IEC 62052-21, IEC 62053-22, 62053-23, IEC 62053-24, IEC 62056-21        |                            |
| 5       | Model of meter   |      | To be mentioned   |                            |
| 6       | Type   | -    | AMR/RMR Compatible LT AC Static, 3 Phase 4 Wire CT operated programmable energy meter |                            |
| 7       | Number of elements   | nos. | 3   |                            |
| 8       | Installation   | -    | Indoor/outdoor type   |                            |
| 9       | Parameters to be displayed in auto mode and by push button | -    | Shall comply as per display list specified in tender specification                    |                            |
| 10      | Meter reading display during main ac line power off        | -    | Shall have this feature   |                            |
| 11      | Power factor range   | -    | 0.5 lag – unity – 0.8 lead  |                            |
| 12      | Rated current (In)   | A    | 5   |                            |
| 13      | Maximum current  | A    | 6   |                            |
| 14      | Starting current (maximum)                                 | mA   | 10 mA or less   |                            |
| 15      | Accuracy Class   | -    | Active energy: 0.5S<br>Reactive energy: ≤1.0  |                            |
| 16      | Rated voltage (Vref)                                       | V    | Suitable for operation for 415V phase to phase or 240V phase to Neutral               |                            |
| 17      | Variation of Voltage                                       | %    | +20% to -20%  |                            |

| Sl. No. | Description                                  | Unit         | Required Specification  | Manufacturer's Particulars |
|---------|--|--------------|---|----------------------------|
| 18      | Rated frequency                              | Hz           | 50  |                            |
| 19      | Number of Digit of Meter display             | nos.         | Seven Segment LCD/LED display with backlit, total no. of digit shall be 8 with at least 6 integer digits. |                            |
| 20      | <b>Size of Digit of Display</b>              |              |   |                            |
|         | a. Width                                     | mm           | minimum 4 mm  |                            |
|         | b. Height                                    | mm           | minimum 8 mm  |                            |
| 21      | Power Consumption in each voltage circuit    | Watt & VA    | To be mentioned   |                            |
| 22      | Power Consumption in each current circuit    | VA           | To be mentioned   |                            |
| 23      | IP protection rating                         |              | IP 54 or better   |                            |
|         | <b>Maximum Demand Register</b>               |              |   |                            |
| 24      | a. Integration period                        | minute       | 30 minutes  |                            |
|         | b. Sub Integration period                    | minute       | To be mentioned   |                            |
|         | c. Method                                    | -            | Sliding window  |                            |
|         | d. Resetting period                          | month        | Calendar Month  |                            |
|         | e. Timing Devices                            | -            | RTC (Real Time Clock)   |                            |
| 25      | Type of Memory                               | -            | Non-Volatile  |                            |
| 26      | No. of Terminal                              | Nos.         | minimum 10 (ten)  |                            |
| 27      | Battery life                                 | Year.        | minimum 10 (ten) years  |                            |
| 28      | Size of conductor for connection at Terminal | Sq.mm        | Shall be suitable for using 4 sq.mm conductor   |                            |
| 29      | Internal diameter of connection Terminal     | mm           | To be mentioned   |                            |
| 30      | Weight of meter                              | kg.          | To be mentioned   |                            |
| 31      | Dimensions                                   | mm x mm x mm | To be mentioned   |                            |
| 32      | a) AMR/RMR facility                          | -            | shall have this feature   |                            |
|         | b) MODEM with antenna and accessories        | -            | Meter shall have option to incorporate MODEM  |                            |

| Sl. No. | Description   | Unit    | Required Specification  | Manufacturer's Particulars |
|---------|---|---------|---|----------------------------|
|         |   |         | compliant to standard DLMS, COSEM communication protocol  |                            |
|         | c) Communication protocol used                                      | -       | Shall support DLMS, COSEM open communication protocol   |                            |
|         | d) Baud rate of data transmission                                   | bps     | 9600  |                            |
|         | e) Optical communication port and remote communication port         | -       | Shall be provided   |                            |
|         | f) Cover for Optical communication port for protection against dust | -       | Shall be provided   |                            |
|         | g) Manufacturer's seal at meter body                                | -       | Shall be provided   |                            |
|         | h) Meter terminal sealing provision (2 nos.) with twist tight seal  | YES/No  | YES   |                            |
|         | i) Meter body   | -       | Ultrasonically welded/ Hermetically Sealed/ internally mechanically locked and Properly sealed to avoid unauthorized opening of meter cover without breaking.   |                            |
| 33      | Meter Constant  | Imp/KWh | To be mentioned   |                            |
| 34      | Time of Day Zones (Selectable)                                      | -       | Shall have this feature, Minimum 2  |                            |
| 35      | List of events(minimum) to be recorded                              | -       | Meter shall keep record of the following minimum events (minimum last 20 occurrence and minimum last 20 restoration of each event) with date and time:<br>a. CT Short (Bypass) / Open<br>b. Missing Potential |                            |

| Sl. No. | Description                        | Unit | Required Specification  | Manufacturer's Particulars |
|---------|------------------------------------|------|---|----------------------------|
|         |                                    |      | c. Missing Current<br>d. Neutral Missing<br>e. Current imbalance<br>f. Voltage imbalance<br>g. Magnetic Influence<br>h. Power on/off<br>i. Over voltage/under voltage<br>j. Body cover open<br>k. Meter body open<br><br>The report shall be in non-editable format   |                            |
| 36      | List of Load survey data (minimum) | -    | Meter shall keep record of the following minimum load survey data for a period of minimum 90 days:<br>a. Phase wise average current<br>b. Phase wise average voltage<br>c. Delta value of Active, Reactive and Apparent Energy<br><br>Moreover, meter shall keep record of the following minimum load survey data for a period of minimum 12 months:<br>a. Maximum monthly Demand (active, reactive & apparent)<br>b. Average power factor. |                            |
| 37      | Meter memory capacity              | -    | Meter shall have sufficient memory to keep record of at least last 12 months energy consumption and demand data (active and reactive both)  |                            |
| 38      | Forward Energy calculation         | -    | Meter shall record forward energy and meters shall be capable of recording  |                            |

| Sl. No. | Description   | Unit | Required Specification  | Manufacturer's Particulars |
|---------|---|------|---|----------------------------|
|         |   |      | correctly even if input and output terminals are interchanged.                              |                            |
| 39      | Total Measurement of Energy   | -    | The total energy calculation shall consist of fundamental energy as well as harmonic energy |                            |
| 40      | Type of assembly of component used in the meter                         | -    | Surface Mounting Technology   |                            |
| 41      | Material of Meter Body  | -    | High Grade Polycarbonate  |                            |
| 42      | Grade of printed circuit board material                                 | -    | Glass Epoxy, fire resistance grade  |                            |
| 43      | No. of micro CT inside the meter  | nos. | 4 (3 nos. for phase and 1 no. for neutral)  |                            |
|         | <b>Manufacturer's Name &amp; country of Meter's critical components</b> |      |   |                            |
|         | Measurement / Computing chips<br>(Manufacturer's Name & Country)        | -    | To be mentioned   |                            |
| 44      | Memory chips<br>(Manufacturer's Name & Country)                         | -    | To be mentioned   |                            |
|         | Display modules<br>(Manufacturer's Name & Country)                      | -    | To be mentioned   |                            |
|         | RTC<br>(Manufacturer's Name & Country)                                  | -    | To be mentioned   |                            |
| 45      | Drawing   | -    | To be submitted   |                            |

for manufacturer:

Name:

for tenderer:

Name:

Designation:

Email:

Phone No:

Seal & Signature with Date:

Designation:

Email:

Phone No:

Seal & Signature with Date:

*N.B: the above information shall be clearly filled up by both manufacturer and tenderer.*

***Note: Tenderers shall propose meters from at least 03 (three) different meter manufacturers, all of which shall be capable of communicating with the proposed single Data Acquisition System for AMR metering. During implementation, meters from each of the proposed manufacturers shall be installed at various sites.***

**5. 415 Volt 3-Phase, 4-Wire, 3-Element, CT Operated Programmable Type Solid State Net Energy Meter (Bidirectional Meter)**

*(To be filled up appropriately, then to be signed and sealed by both Tenderer and Manufacturer in Manufacturer's Letterhead Pad)*

| Sl. No. | Description  | Unit | Required Specification  | Manufacturer's Particulars |
|---------|--|------|---|----------------------------|
| 1       | Name of the manufacturer                                   | -    | To be mentioned   |                            |
| 2       | Address of the manufacturer                                | -    | To be mentioned   |                            |
| 3       | Country of manufacture                                     | -    | To be mentioned   |                            |
| 4       | Reference Standard   | -    | IEC 62052-11, IEC 62052-21, IEC 62053-22, 62053-23, IEC 62053-24, IEC 62056-21        |                            |
| 5       | Model of meter   |      | To be mentioned   |                            |
| 6       | Type   | -    | AMR/RMR Compatible LT AC Static, 3 Phase 4 Wire CT operated programmable energy meter |                            |
| 7       | Number of elements   | nos. | 3   |                            |
| 8       | Installation   | -    | Indoor/outdoor type   |                            |
| 9       | Parameters to be displayed in auto mode and by push button | -    | Shall comply as per display list specified in tender specification                    |                            |
| 10      | Meter reading display during main ac line power off        | -    | Shall have this feature   |                            |
| 11      | Power factor range   | -    | 0.5 lag – unity – 0.8 lead  |                            |
| 12      | Rated current (In)   | A    | 5   |                            |
| 13      | Maximum current  | A    | 6   |                            |
| 14      | Starting current (maximum)                                 | mA   | 10 mA or less   |                            |
| 15      | Accuracy Class   | -    | Active energy: 0.5S<br>Reactive energy: ≤1.0  |                            |
| 16      | Rated voltage (Vref)                                       | V    | Suitable for operation for 415V phase to phase or 240V phase to Neutral               |                            |
| 17      | Variation of Voltage                                       | %    | +20% to -20%  |                            |

| Sl. No. | Description                                  | Unit         | Required Specification  | Manufacturer's Particulars |
|---------|--|--------------|---|----------------------------|
| 18      | Rated frequency                              | Hz           | 50  |                            |
| 19      | Number of Digit of Meter display             | nos.         | Seven Segment LCD/LED display with backlit, total no. of digit shall be 8 with at least 6 integer digits. |                            |
| 20      | <b>Size of Digit of Display</b>              |              |   |                            |
|         | c. Width                                     | mm           | minimum 4 mm  |                            |
|         | d. Height                                    | mm           | minimum 8 mm  |                            |
| 21      | Power Consumption in each voltage circuit    | Watt & VA    | To be mentioned   |                            |
| 22      | Power Consumption in each current circuit    | VA           | To be mentioned   |                            |
| 23      | IP protection rating                         |              | IP 54 or better   |                            |
|         | <b>Maximum Demand Register</b>               |              |   |                            |
| 24      | f. Integration period                        | minute       | 30 minutes  |                            |
|         | g. Sub Integration period                    | minute       | To be mentioned   |                            |
|         | h. Method                                    | -            | Sliding window  |                            |
|         | i. Resetting period                          | month        | Calendar Month  |                            |
|         | j. Timing Devices                            | -            | RTC (Real Time Clock)   |                            |
| 25      | Type of Memory                               | -            | Non-Volatile  |                            |
| 26      | No. of Terminal                              | Nos.         | minimum 10 (ten)  |                            |
| 27      | Battery life                                 | Year.        | minimum 10 (ten) years  |                            |
| 28      | Size of conductor for connection at Terminal | Sq.mm        | Shall be suitable for using 4 sq.mm conductor   |                            |
| 29      | Internal diameter of connection Terminal     | mm           | To be mentioned   |                            |
| 30      | Weight of meter                              | kg.          | To be mentioned   |                            |
| 31      | Dimensions                                   | mm x mm x mm | To be mentioned   |                            |
| 32      | a) AMR/RMR facility                          | -            | shall have this feature   |                            |
|         | b) MODEM with antenna and accessories        | -            | Meter shall have option to incorporate MODEM  |                            |

| Sl. No. | Description   | Unit    | Required Specification  | Manufacturer's Particulars |
|---------|---|---------|---|----------------------------|
|         |   |         | compliant to standard DLMS, COSEM communication protocol  |                            |
|         | c) Communication protocol used                                      | -       | Shall support DLMS, COSEM open communication protocol   |                            |
|         | d) Baud rate of data transmission                                   | bps     | 9600  |                            |
|         | e) Optical communication port and remote communication port         | -       | Shall be provided   |                            |
|         | f) Cover for Optical communication port for protection against dust | -       | Shall be provided   |                            |
|         | g) Manufacturer's seal at meter body                                | -       | Shall be provided   |                            |
|         | h) Meter terminal sealing provision (2 nos.) with twist tight seal  | YES/No  | YES   |                            |
|         | i) Meter body   | -       | Ultrasonically welded/ Hermetically Sealed/ internally mechanically locked and Properly sealed to avoid unauthorized opening of meter cover without breaking.   |                            |
| 33      | Meter Constant  | Imp/KWh | To be mentioned   |                            |
| 34      | Time of Day Zones (Selectable)                                      | -       | Shall have this feature, Minimum 2  |                            |
| 35      | List of events(minimum) to be recorded                              | -       | Meter shall keep record of the following minimum events (minimum last 20 occurrence and minimum last 20 restoration of each event) with date and time:<br>l. CT Short (Bypass) / Open<br>m. Missing Potential |                            |

| Sl. No. | Description                        | Unit | Required Specification  | Manufacturer's Particulars |
|---------|------------------------------------|------|---|----------------------------|
|         |                                    |      | n. Missing Current<br>o. Neutral Missing<br>p. Current imbalance<br>q. Voltage imbalance<br>r. Magnetic Influence<br>s. Power on/off<br>t. Over voltage/under voltage<br>u. Body cover open<br>v. Meter body open<br><br>The report shall be in non-editable format   |                            |
| 36      | List of Load survey data (minimum) | -    | Meter shall keep record of the following minimum load survey data for a period of minimum 90 days:<br>d. Phase wise average current<br>e. Phase wise average voltage<br>f. Delta value of Active, Reactive and Apparent Energy<br><br>Moreover, meter shall keep record of the following minimum load survey data for a period of minimum 12 months:<br>a. Maximum monthly Demand (active, reactive & apparent)<br>b. Average power factor. |                            |
| 37      | Meter memory capacity              | -    | Meter shall have sufficient memory to keep record of at least last 12 months energy consumption and demand data (active and reactive both)  |                            |
| 38      | Forward Energy calculation         | -    | Meter shall record forward energy and meters shall be capable of recording  |                            |

| Sl. No. | Description   | Unit | Required Specification   | Manufacturer's Particulars |
|---------|---|------|--|----------------------------|
|         |   |      | correctly even if input and output terminals are interchanged.   |                            |
| 39      | Total Measurement of Energy   | -    | The total energy calculation shall consist of fundamental energy as well as harmonic energy  |                            |
| 40      | Type of assembly of component used in the meter                         | -    | Surface Mounting Technology  |                            |
| 41      | Material of Meter Body  | -    | High Grade Polycarbonate   |                            |
| 42      | Grade of printed circuit board material                                 | -    | Glass Epoxy, fire resistance grade   |                            |
| 43      | No. of micro CT inside the meter  | nos. | 4 (3 nos. for phase and 1 no. for neutral)   |                            |
| 44      | Net metering  | -    | <p>Meter shall record in its register and display the followings:</p> <ul style="list-style-type: none"> <li>a. Lamp test</li> <li>b. Date &amp; Time</li> <li>c. Meter Number</li> <li>d. TOD Import Active Energy(Q1+Q4)</li> <li>e. Total Export Active Energy(Q2+Q3)</li> <li>f. Total Net Active Energy (Import-Export)</li> <li>g. Import Reactive Energy (Lag+Lead)</li> <li>h. Export Reactive Energy (Lag+Lead)</li> <li>i. Instantaneous Active Load</li> <li>j. MD Reset</li> <li>k. Phase Wise Voltage</li> <li>l. Phase Wise Current</li> </ul> |                            |
| 45      | <b>Manufacturer's Name &amp; country of Meter's critical components</b> |      |  |                            |
|         | Measurement / Computing   | -    | To be mentioned  |                            |

| Sl. No. | Description  | Unit | Required Specification | Manufacturer's Particulars |
|---------|--|------|------------------------|----------------------------|
|         | chips<br>(Manufacturer's Name & Country)           |      |                        |                            |
|         | Memory chips<br>(Manufacturer's Name & Country)    | -    | To be mentioned        |                            |
|         | Display modules<br>(Manufacturer's Name & Country) | -    | To be mentioned        |                            |
|         | RTC<br>(Manufacturer's Name & Country)             | -    | To be mentioned        |                            |
| 46      | Drawing  | -    | To be submitted        |                            |

*for manufacturer:*

Name:

Designation:

Email:

Phone No:

Seal & Signature with Date:

*for tenderer:*

Name:

Designation:

Email:

Phone No:

Seal & Signature with Date:

*N.B: the above information shall be clearly filled up by both manufacturer and tenderer.*

***Note: Tenderers shall propose meters from at least 03 (three) different meter manufacturers, all of which shall be capable of communicating with the proposed single Data Acquisition System for AMR metering. During implementation, meters from each of the proposed manufacturers shall be installed at various sites.***

**6. 415v, 3- Phase, 4-Wire, 3- Element, Solid State Programmable Type Whole Current Energy Meter**

*(To be filled up appropriately, then to be signed and sealed by both Tenderer and Manufacturer in Manufacturer's Letterhead Pad)*

| Sl. No. | Description  | Unit  | Required Specification  | Manufacturer's Particulars |
|---------|--|-------|---|----------------------------|
| 1.      | Name of the manufacturer                                   | -     | To be mentioned   |                            |
| 2.      | Address of the manufacturer                                | -     | To be mentioned   |                            |
| 3.      | Country of manufacturer                                    | -     | To be mentioned   |                            |
| 4.      | Reference standard   | -     | IEC 62052-11, IEC 62052-21, IEC 62053-22, 62053-23, IEC 62053-24, IEC 62056-21                |                            |
| 5.      | Model of meter   | -     | To be mentioned   |                            |
| 6.      | Type   | -     | AMR/RMR Compatible LT AC Static, 3 Phase, 4 Wire programmable type whole current energy meter |                            |
| 7.      | Number of Element  | -     | 3   |                            |
| 8.      | Installation   | -     | Indoor/outdoor type   |                            |
| 9.      | Parameters to be displayed in auto mode and by push button | -     | Shall comply as per display list specified in tender specification                            |                            |
| 10.     | Meter reading display during main ac line power off        | -     | Shall have this feature   |                            |
| 11.     | Power factor range   | -     | 0 lag – unity – 0 lead  |                            |
| 12.     | Basic Current ( $I_n$ )                                    | A     | 10  |                            |
| 13.     | Maximum Continuous Current ( $I_{max}$ )                   | A     | 100   |                            |
| 14.     | Minimum Starting Current.                                  | -     | 0.4% of $I_n$ at Unity PF   |                            |
| 15.     | Short time current   | -     | To be mentioned   |                            |
| 16.     | Accuracy Class   | -     | Active energy: 1.0<br>Reactive energy: 2.0  |                            |
| 17.     | Rated Voltage  | Volt. | Suitable for operation for 415 V Ph-Ph or 230V Ph-N   |                            |

| Sl. No. | Description                                  | Unit            | Required Specification  | Manufacturer's Particulars |
|---------|--|-----------------|---|----------------------------|
| 18.     | Variation of Voltage                         | %               | +20% to -20%  |                            |
| 19.     | Rated frequency                              | Hz.             | 50  |                            |
| 20.     | Number of Digit of Meter display             | nos.            | Seven Segment LCD/LED display with backlit, total no. of digit shall be 8 with at least 6 integer digits. |                            |
| 21.     | Size of Digit of Display                     |                 |   |                            |
|         | Width  | mm              | minimum 4 mm  |                            |
|         | Height                                       | mm              | minimum 8 mm  |                            |
| 22.     | Power consumption                            | -               |   |                            |
|         | a) in each voltage circuit                   | Watt & VA       | To be mentioned   |                            |
|         | b) in each current circuit                   | VA              | To be mentioned   |                            |
| 23.     | IP protection rating                         | -               | IP 54 or better   |                            |
| 24.     | Maximum Demand Register                      | -               |   |                            |
|         | a. Integration period                        | -               | 30 minutes  |                            |
|         | b. Sub Integration period                    | -               | To be mentioned   |                            |
|         | c. Method                                    | -               | Sliding window  |                            |
|         | d. Resetting period                          | -               | Calendar Month  |                            |
|         | e. Timing Devices                            | -               | RTC (Real Time Clock)   |                            |
| 25.     | Type of memory                               | -               | non - volatile  |                            |
| 26.     | No. of Terminal                              | Nos.            | minimum 10 (ten)  |                            |
| 27.     | Battery life                                 | Year            | minimum 10 (ten) years  |                            |
| 28.     | Internal diameter of terminal hole (minimum) | mm              | 10 mm   |                            |
| 29.     | Weight of Meter                              | Kg.             | To be mentioned   |                            |
| 30.     | Dimensions                                   | mm x mm<br>x mm | To be mentioned   |                            |
| 31.     | a) AMR/RMR facility                          | -               | shall have this feature   |                            |
|         | b) MODEM with antenna and accessories        | -               | Meter shall have option to incorporate MODEM compliant to standard DLMS, COSEM                            |                            |

| Sl. No. | Description   | Unit    | Required Specification  | Manufacturer's Particulars |
|---------|---|---------|---|----------------------------|
|         |   |         | communication protocol  |                            |
|         | c) Communication protocol used                                      | -       | Shall support DLMS, COSEM open communication protocol   |                            |
|         | d) Baud rate of data transmission                                   | bps     | 9600  |                            |
|         | e) Optical communication port and remote communication port         | -       | Shall be provided   |                            |
|         | f) Cover for Optical communication port for protection against dust | -       | Shall be provided   |                            |
|         | g) Manufacturer's seal at meter body                                | -       | Shall be provided   |                            |
|         | h) Meter terminal sealing provision (2 nos.) with twist tight seal  | YES/No  | YES   |                            |
|         | i) Meter body   | -       | Ultrasonically welded/ Hermetically Sealed/ internally mechanically locked and Properly sealed to avoid unauthorized opening of meter cover without breaking.   |                            |
| 32.     | Meter Constant  | Imp/KWh | To be mentioned   |                            |
| 33.     | Time of Day Zones (Selectable)                                      | -       | Shall have this feature, Minimum 2  |                            |
| 34.     | List of events(minimum) to be recorded                              | -       | Meter shall keep record of the following minimum events (minimum last 20 occurrence and minimum last 20 restoration of each event) with date and time:<br>a. CT Short (Bypass) / Open<br>b. Missing Potential<br>c. Missing Current<br>d. Neutral Missing<br>e. Current imbalance |                            |

| Sl. No. | Description                               | Unit | Required Specification  | Manufacturer's Particulars |
|---------|---|------|---|----------------------------|
|         |   |      | f. Voltage imbalance<br>g. Magnetic Influence<br>h. Power on/off<br>i. Over voltage/under voltage<br>j. Body cover open<br>k. Meter body open<br><br>The report shall be in non-editable format   |                            |
| 35.     | List of Load survey data (minimum)        | -    | Meter shall keep record of the following minimum load survey data for a period of minimum 90 days:<br>a. Phase wise average current<br>b. Phase wise average voltage<br>c. Delta value of Active, Reactive and Apparent Energy<br><br>Moreover, meter shall keep record of the following minimum load survey data for a period of minimum 12 months:<br>c. Maximum monthly Demand (active, reactive & apparent)<br>d. Average power factor. |                            |
| 36.     | Meter memory capacity                     | -    | Meter shall have sufficient memory to keep record of at least last 12 months energy consumption and demand data (active and reactive both)  |                            |
| 37.     | Forward Energy calculation                | -    | Meter shall record forward energy and meters shall be capable of recording correctly even if input and output terminals are interchanged.   |                            |
| 38.     | Total Measurement of Energy               | -    | The total energy calculation shall consist of fundamental energy as well as harmonic energy   |                            |
| 39.     | Type of assembly of component used in the | -    | Surface Mounting Technology   |                            |

| Sl. No. | Description   | Unit | Required Specification                       | Manufacturer's Particulars |
|---------|---|------|--|----------------------------|
|         | meter   |      |  |                            |
| 40.     | Material of Meter Body  | -    | High grade Engineering Plastic/Polycarbonate |                            |
| 41.     | Grade of printed circuit board material                                 | -    | Glass Epoxy, fire resistance grade           |                            |
| 42.     | Meter reading display during main power off                             | -    | shall have this feature                      |                            |
| 43.     | <b>Manufacturer's Name &amp; country of Meter's critical components</b> |      |  |                            |
|         | Measurement / Computing chips (Manufacturer's Name & Country)           | -    | To be mentioned                              |                            |
|         | Memory chips (Manufacturer's Name & Country)                            | -    | To be mentioned                              |                            |
|         | Display modules (Manufacturer's Name & Country)                         | -    | To be mentioned                              |                            |
|         | RTC (Manufacturer's Name & Country)                                     | -    | To be mentioned                              |                            |
| 44.     | Drawing   | -    | To be submitted                              |                            |

*for manufacturer:*

Name:

Designation:

Email:

Phone No:

Seal & Signature with Date:

*for tenderer:*

Name:

Designation:

Email:

Phone No:

Seal & Signature with Date:

*N.B: the above information shall be clearly filled up by both manufacturer and tenderer.*

**Note: Tenderers shall propose meters from at least 03 (three) different meter manufacturers, all of which shall be capable of communicating with the proposed single Data Acquisition System for**

**Procurement of Solar Energy from 4.136 MWp Rooftop Solar System in Bhola Palli Bidyut Samity (LALMOHON UPAZILLA) Area on BOO (Build, Own, Operate) Basis following OpEx Model.**

*AMR metering. During implementation, meters from each of the proposed manufacturers shall be installed at various sites.*

**7. 415v, 3- Phase, 4-Wire, 3- Element, Solid State Programmable Type Whole Current Net Energy Meter (Bidirectional Meter)**

*(To be filled up appropriately, then to be signed and sealed by both Tenderer and Manufacturer in Manufacturer's Letterhead Pad)*

| Sl. No. | Description  | Unit  | Required Specification  | Manufacturer's Particulars |
|---------|--|-------|---|----------------------------|
| 1.      | Name of the manufacturer                                   | -     | To be mentioned   |                            |
| 2.      | Address of the manufacturer                                | -     | To be mentioned   |                            |
| 3.      | Country of manufacturer                                    | -     | To be mentioned   |                            |
| 4.      | Reference standard   | -     | IEC 62052-11, IEC 62052-21, IEC 62053-22, 62053-23, IEC 62053-24, IEC 62056-21                |                            |
| 5.      | Model of meter   | -     | To be mentioned   |                            |
| 6.      | Type   | -     | AMR/RMR Compatible LT AC Static, 3 Phase, 4 Wire programmable type whole current energy meter |                            |
| 7.      | Number of Element  | -     | 3   |                            |
| 8.      | Installation   | -     | Indoor/outdoor type   |                            |
| 9.      | Parameters to be displayed in auto mode and by push button | -     | Shall comply as per display list specified in tender specification                            |                            |
| 10.     | Meter reading display during main ac line power off        | -     | Shall have this feature   |                            |
| 11.     | Power factor range   | -     | 0 lag – unity – 0 lead  |                            |
| 12.     | Basic Current ( $I_n$ )                                    | A     | 10  |                            |
| 13.     | Maximum Continuous Current ( $I_{max}$ )                   | A     | 100   |                            |
| 14.     | Minimum Starting Current.                                  | -     | 0.4% of $I_n$ at Unity PF   |                            |
| 15.     | Short time current   | -     | To be mentioned   |                            |
| 16.     | Accuracy Class   | -     | Active energy: 1.0<br>Reactive energy: 2.0  |                            |
| 17.     | Rated Voltage  | Volt. | Suitable for operation for 415 V Ph-Ph or 230V Ph-N   |                            |

| Sl. No. | Description                                  | Unit            | Required Specification  | Manufacturer's Particulars |
|---------|--|-----------------|---|----------------------------|
| 18.     | Variation of Voltage                         | %               | +20% to -20%  |                            |
| 19.     | Rated frequency                              | Hz.             | 50  |                            |
| 20.     | Number of Digit of Meter display             | nos.            | Seven Segment LCD/LED display with backlit, total no. of digit shall be 8 with at least 6 integer digits. |                            |
| 21.     | Size of Digit of Display                     |                 |   |                            |
|         | Width  | mm              | minimum 4 mm  |                            |
|         | Height                                       | mm              | minimum 8 mm  |                            |
| 22.     | Power consumption                            | -               |   |                            |
|         | a) in each voltage circuit                   | Watt & VA       | To be mentioned   |                            |
|         | b) in each current circuit                   | VA              | To be mentioned   |                            |
| 23.     | IP protection rating                         | -               | IP 54 or better   |                            |
| 24.     | Maximum Demand Register                      | -               |   |                            |
|         | a. Integration period                        | -               | 30 minutes  |                            |
|         | b. Sub Integration period                    | -               | To be mentioned   |                            |
|         | c. Method                                    | -               | Sliding window  |                            |
|         | d. Resetting period                          | -               | Calendar Month  |                            |
|         | e. Timing Devices                            | -               | RTC (Real Time Clock)   |                            |
| 25.     | Type of memory                               | -               | non - volatile  |                            |
| 26.     | No. of Terminal                              | Nos.            | minimum 10 (ten)  |                            |
| 27.     | Battery life                                 | Year            | minimum 10 (ten) years  |                            |
| 28.     | Internal diameter of terminal hole (minimum) | mm              | 10 mm   |                            |
| 29.     | Weight of Meter                              | Kg.             | To be mentioned   |                            |
| 30.     | Dimensions                                   | mm x mm<br>x mm | To be mentioned   |                            |
| 31.     | a) AMR/RMR facility                          | -               | shall have this feature   |                            |
|         | b) MODEM with antenna and accessories        | -               | Meter shall have option to incorporate MODEM compliant to standard DLMS, COSEM                            |                            |

| Sl. No. | Description   | Unit    | Required Specification  | Manufacturer's Particulars |
|---------|---|---------|---|----------------------------|
|         |   |         | communication protocol  |                            |
|         | c) Communication protocol used                                      | -       | Shall support DLMS, COSEM open communication protocol   |                            |
|         | d) Baud rate of data transmission                                   | bps     | 9600  |                            |
|         | e) Optical communication port and remote communication port         | -       | Shall be provided   |                            |
|         | f) Cover for Optical communication port for protection against dust | -       | Shall be provided   |                            |
|         | g) Manufacturer's seal at meter body                                | -       | Shall be provided   |                            |
|         | h) Meter terminal sealing provision (2 nos.) with twist tight seal  | YES/No  | YES   |                            |
|         | i) Meter body   | -       | Ultrasonically welded/ Hermetically Sealed/ internally mechanically locked and Properly sealed to avoid unauthorized opening of meter cover without breaking.   |                            |
| 32.     | Meter Constant  | Imp/KWh | To be mentioned   |                            |
| 33.     | Time of Day Zones (Selectable)                                      | -       | Shall have this feature, Minimum 2  |                            |
| 34.     | List of events(minimum) to be recorded                              | -       | Meter shall keep record of the following minimum events (minimum last 20 occurrence and minimum last 20 restoration of each event) with date and time:<br>l. CT Short (Bypass) / Open<br>m. Missing Potential<br>n. Missing Current<br>o. Neutral Missing<br>p. Current imbalance |                            |

| Sl. No. | Description                               | Unit | Required Specification  | Manufacturer's Particulars |
|---------|---|------|---|----------------------------|
|         |   |      | q. Voltage imbalance<br>r. Magnetic Influence<br>s. Power on/off<br>t. Over voltage/under voltage<br>u. Body cover open<br>v. Meter body open<br><br>The report shall be in non-editable format   |                            |
| 35.     | List of Load survey data (minimum)        | -    | Meter shall keep record of the following minimum load survey data for a period of minimum 90 days:<br>d. Phase wise average current<br>e. Phase wise average voltage<br>f. Delta value of Active, Reactive and Apparent Energy<br><br>Moreover, meter shall keep record of the following minimum load survey data for a period of minimum 12 months:<br>e. Maximum monthly Demand (active, reactive & apparent)<br>f. Average power factor. |                            |
| 36.     | Meter memory capacity                     | -    | Meter shall have sufficient memory to keep record of at least last 12 months energy consumption and demand data (active and reactive both)  |                            |
| 37.     | Forward Energy calculation                | -    | Meter shall record forward energy and meters shall be capable of recording correctly even if input and output terminals are interchanged.   |                            |
| 38.     | Total Measurement of Energy               | -    | The total energy calculation shall consist of fundamental energy as well as harmonic energy   |                            |
| 39.     | Type of assembly of component used in the | -    | Surface Mounting Technology   |                            |

| Sl. No. | Description   | Unit | Required Specification   | Manufacturer's Particulars |
|---------|---|------|--|----------------------------|
|         | meter   |      |  |                            |
| 40.     | Material of Meter Body  | -    | High grade Engineering Plastic/Polycarbonate   |                            |
| 41.     | Grade of printed circuit board material                                 | -    | Glass Epoxy, fire resistance grade   |                            |
| 42.     | Meter reading display during main power off                             | -    | shall have this feature  |                            |
| 43.     | Net metering  | -    | <p>Meter shall record in its register and display the followings:</p> <ul style="list-style-type: none"> <li>a. Lamp test</li> <li>b. Date &amp; Time</li> <li>c. Meter Number</li> <li>d. TOD Import Active Energy(Q1+Q4)</li> <li>e. Total Export Active Energy(Q2+Q3)</li> <li>f. Total Net Active Energy (Import-Export)</li> <li>g. Import Reactive Energy (Lag+Lead)</li> <li>h. Export Reactive Energy (Lag+Lead)</li> <li>i. Instantaneous Active Load</li> <li>j. MD Reset</li> <li>k. Phase Wise Voltage</li> <li>l. Phase Wise Current</li> </ul> |                            |
| 44.     | <b>Manufacturer's Name &amp; country of Meter's critical components</b> |      |  |                            |
|         | Measurement / Computing chips (Manufacturer's Name & Country)           | -    | To be mentioned  |                            |
|         | Memory chips (Manufacturer's Name & Country)                            | -    | To be mentioned  |                            |
|         | Display modules (Manufacturer's Name & Country)                         | -    | To be mentioned  |                            |
|         | RTC   | -    | To be mentioned  |                            |

| Sl. No. | Description                     | Unit | Required Specification | Manufacturer's Particulars |
|---------|---------------------------------|------|------------------------|----------------------------|
|         | (Manufacturer's Name & Country) |      |                        |                            |
| 45.     | Drawing                         | -    | To be submitted        |                            |

for manufacturer:

Name:

Designation:

Email:

Phone No:

Seal & Signature with Date:

for tenderer:

Name:

Designation:

Email:

Phone No:

Seal & Signature with Date:

*N.B: the above information shall be clearly filled up by both manufacturer and tenderer.*

***Note: Tenderers shall propose meters from at least 03 (three) different meter manufacturers, all of which shall be capable of communicating with the proposed single Data Acquisition System for AMR metering. During implementation, meters from each of the proposed manufacturers shall be installed at various sites.***

**8. 110/√3 V, 3- PHASE, 4-WIRE, 3- ELEMENT, 5 AMPS SOLID STATE TYPE NET ENERGY METER  
(BIDIRECTIONAL METER)**

*(To be filled up appropriately, then to be signed and sealed by both Tenderer and Manufacturer  
in Manufacturer's Letterhead Pad)*

| Sl. No. | Description                                      | Unit | Required Specification  | Manufacturer's Particulars |
|---------|--|------|---|----------------------------|
| 1.      | Name of the manufacturer                         | -    | To be mentioned   |                            |
| 2.      | Address of the manufacturer                      | -    | To be mentioned   |                            |
| 3.      | Place of manufacture                             | -    | To be mentioned   |                            |
| 4.      | Reference Standard                               | -    | IEC 62052-11, IEC 62052-21, IEC 62053-22, 62053-23, IEC 62053-24, IEC 62056-21, IEC 62056-61  |                            |
| 5.      | Model of meter                                   | -    | To be mentioned   |                            |
| 6.      | Type   | -    | AMR/RMR Compatible AC Static, 3 Phase 4 Wire CT & PT operated net energy meter (bidirectional meter)  |                            |
| 7.      | Number of element                                | -    | 3   |                            |
| 8.      | Installation                                     | -    | Indoor/outdoor type   |                            |
| 9.      | Parameters to be Displayed in auto and push mode | -    | As specified in tender specification  |                            |
| 10.     | Energy Calculation                               |      | Shall calculate Bi-directional Energy (shall calculate import and export energy separately)   |                            |
| 11.     | Measurement of energy                            |      | The meter shall be capable of measuring fundamental plus harmonics energy as total energy. The Total Energy shall be made available on meter-display and the same only shall be used for billing purpose. |                            |
| 12.     | Power factor range                               | -    | 0.5 lag – unity – 0.8 lead  |                            |
| 13.     | Rated current (In)                               | A    | 5   |                            |
| 14.     | Maximum current                                  | A    | ≥ 6   |                            |

| Sl. No. | Description                                  | Unit      | Required Specification   | Manufacturer's Particulars |
|---------|--|-----------|--|----------------------------|
| 15.     | Starting current                             | mA        | 10 mA or less  |                            |
| 16.     | Accuracy Class                               | -         | Active energy: 0.5S<br>Reactive energy: $\leq 1.0$   |                            |
| 17.     | Rated voltage (Vref)                         | -         | $110V/\sqrt{3}$ from PT secondary  |                            |
| 18.     | Variation of Voltage                         | %         | +20% to -20%   |                            |
| 19.     | Biasing Voltage                              | V         | 40% of rated voltage   |                            |
| 20.     | Rated frequency                              | Hz        | 50   |                            |
| 21.     | Number of Digit of Meter display             | -         | Seven Segment LCD/LED display with backlit, total no. of digit shall be 7 or 8 with at least 5 or 6 integer digits respectively.<br>For High resolution display, decimal digit shall be 3 or 4 |                            |
| 22.     | Size of Digit of Display                     | WxH       | Width= minimum 4 mm;<br>Height= minimum 8 mm   |                            |
| 23.     | Power Consumption in each voltage circuit    | Watt & VA | To be mentioned  |                            |
| 24.     | Power Consumption in each current circuit    | VA        | To be mentioned  |                            |
| 25.     | IP protection rating                         | -         | IP 54 or better  |                            |
| 26.     | Maximum Demand Register                      | -         |  |                            |
|         | a. Integration period                        | -         | 30 minutes   |                            |
|         | b. Sub Integration period                    | -         | To be mentioned  |                            |
|         | c. Method                                    | -         | Sliding window   |                            |
|         | d. Resetting period                          | -         | Calendar Month   |                            |
|         | e. Timing Devices                            | -         | RTC (Real Time Clock)  |                            |
| 27.     | Type of Memory                               | -         | Non Volatile   |                            |
| 28.     | No. of Terminal                              | Nos.      | minimum 10 (ten)   |                            |
| 29.     | Battery life                                 | Year.     | minimum 10 (ten) years   |                            |
| 30.     | Size of conductor for connection at Terminal | Sq.mm     | Shall be suitable for using 4 sq.mm conductor  |                            |

| Sl. No. | Description   | Unit               | Required Specification   | Manufacturer's Particulars |
|---------|---|--------------------|--|----------------------------|
| 31.     | Internal diameter of connection Terminal                            | mm                 | To be mentioned  |                            |
| 32.     | Weight of meter   | kg                 | To be mentioned  |                            |
| 33.     | Dimensions  | mm x<br>mm x<br>mm | To be mentioned  |                            |
| 34.     | a) AMR/RMR facility   | -                  | shall have this feature  |                            |
|         | b) Option to connect MODEM with antenna and accessories             | -                  | Meter shall have option to incorporate MODEM compliant to standard DLMS, COSEM communication protocol                      |                            |
|         | c) Communication protocol used                                      | -                  | Shall support DLMS, COSEM open communication protocol  |                            |
|         | d) Meter terminal sealing provision (2 nos.) with twist tight seal  | YES/No             | YES  |                            |
|         | e) Baud rate of data transmission                                   | -                  | minimum 9600 bps   |                            |
|         | f) Optical communication port and remote communication port         | -                  | Shall be provided  |                            |
|         | g) Cover for Optical communication port for protection against dust | -                  | Shall be provided  |                            |
|         | h) Manufacturer's seal at meter body                                | -                  | Shall be provided  |                            |
|         | i) Meter body   | -                  | Ultrasonically welded/ Hermetically Sealed/ Properly sealed to avoid unauthorized opening of meter cover without breaking. |                            |
| 35.     | Meter Constant  | Imp/<br>KWh        | Shall be mentioned   |                            |
| 36.     | Time of Day Zones   | -                  | shall have this feature, Minimum 2   |                            |

| Sl. No. | Description                             | Unit | Required Specification  | Manufacturer's Particulars |
|---------|---|------|---|----------------------------|
| 37.     | List of events (minimum) to be recorded | -    | Meter shall keep record of the following minimum events (last 20 occurrences and restoration of each event) with date and time along with related snapshots (Total Active & Reactive Energy and Phase wise Voltage, Current & PF):<br>a. CT Short (Bypass) / Open<br>b. Missing Potential<br>c. Missing Current<br>d. Current imbalance<br>e. Voltage imbalance<br>f. Magnetic Influence<br>g. Power on/off<br>h. Over voltage/undervoltage<br>i. Body cover open<br>j. Current Reversal          |                            |
| 38.     | List of Load survey data (minimum)      | -    | Meter shall keep record of the following minimum load survey data for a period of minimum 90 days:<br>a. Phase wise average current,<br>b. Phase wise average voltage,<br>c. Active Energy (Import, Export & Net),<br>d. Reactive Energy (Import, Export & Net)<br>e. Apparent Energy<br>f. Maximum Demand (active, reactive & apparent),<br>g. average power factor<br>Meter will record delta values of mentioned parameters (Energy values) for defined interval/ capture period (30 minutes). |                            |
| 39.     | Meter memory capacity                   | -    | Meter shall have sufficient memory to keep record of at least last 12 months energy consumption and demand data (active and reactive  |                            |

| Sl. No. | Description   | Unit | Required Specification             | Manufacturer's Particulars |
|---------|---|------|------------------------------------|----------------------------|
|         |   |      | both)                              |                            |
| 40.     | Type of assembly of component used in the meter                     | -    | Surface Mounting Technology        |                            |
| 41.     | Material of Meter Body  | -    | High grade Polycarbonate           |                            |
| 42.     | Grade of printed circuit board material                             | -    | Glass Epoxy, fire resistance grade |                            |
| 43.     | Meter commissioning   | -    | Secondary commissioning.           |                            |
| 44.     | <b>Manufacturer Name &amp; country of Meter critical components</b> |      |                                    |                            |
|         | Measurement / Computing chips (Manufacturer Name & Country)         |      | To be mentioned                    |                            |
|         | Memory chips (Manufacturer Name & Country)                          |      | To be mentioned                    |                            |
|         | Display modules (Manufacturer Name & Country)                       |      | To be mentioned                    |                            |
|         | RTC (Manufacturer Name & Country)                                   |      | To be mentioned                    |                            |

for manufacturer:

Name:

Designation:

Email:

Phone No:

Seal &amp; Signature with Date:

for tenderer:

Name:

Designation:

Email:

Phone No:

Seal &amp; Signature with Date:

*N.B: the above information shall be clearly filled up by both manufacturer and tenderer.*

*Note: Tenderers shall propose meters from at least 03 (three) different meter manufacturers, all of which shall be capable of communicating with the proposed single Data Acquisition System for AMR metering. During implementation, meters from each of the proposed manufacturers shall be installed at various sites*

### 8. 415 Volt 200/5 Amps Indoor Type Single Phase Current Transformer

(To be filled up appropriately, then to be signed and sealed by both Tenderer and Manufacturer in Manufacturer's Letterhead Pad)

| Sl. No. | Description                                  | Unit | Required Specification                        | Manufacturer's Particulars |
|---------|--|------|---|----------------------------|
| 1.      | Name of the Manufacturer                     | -    | To be mentioned                               |                            |
| 2.      | Address of the Manufacturer                  | -    | To be mentioned                               |                            |
| 3.      | Country of manufacture                       | -    | To be mentioned                               |                            |
| 4.      | Manufacturer's model no.                     | -    | To be mentioned                               |                            |
| 5.      | Reference standard                           | -    | IEC 60044-1, IEC 61869-2                      |                            |
| 6.      | Application                                  | -    | Metering                                      |                            |
| 7.      | Type   | -    | Induction                                     |                            |
| 8.      | Installation                                 | -    | Indoor  |                            |
| 9.      | Construction                                 | -    | Dry Type Epoxy Resin Cast, ring type          |                            |
| 10.     | Number of Phases                             | -    | Single  |                            |
| 11.     | Rated Frequency                              | Hz   | 50  |                            |
| 12.     | Mounting                                     | -    | On Supporting Structure inside Metering panel |                            |
| 13.     | Rated System Voltage (Phase to Phase)        | V    | 415   |                            |
| 14.     | System Earthing                              | -    | Effectively earthed                           |                            |
| 15.     | Rated secondary current                      | A    | 5A (balanced and unbalanced load)             |                            |
| 16.     | CT Ratio                                     | -    | 200/5   |                            |
| 17.     | Type of Winding:                             |      |   |                            |
|         | a) Primary                                   | -    | Single Winding                                |                            |
|         | b) Secondary                                 | -    | Single Winding                                |                            |
| 18.     | Accuracy Class                               | -    | 0.5   |                            |
| 19.     | Rated Burden                                 | VA   | 5 VA  |                            |
| 20.     | Extended Current Rating (% of rated current) | %    | 120   |                            |
| 21.     | IP rating                                    | -    | IP 51 or better                               |                            |
| 22.     | Polarity marking                             | -    | Indelibly marked for primary and secondary    |                            |

| Sl. No. | Description                  | Unit | Required Specification | Manufacturer's Particulars |
|---------|------------------------------|------|------------------------|----------------------------|
| 23.     | Core material and grade      | -    | To be mentioned        |                            |
| 24.     | No. of turns in CT secondary | -    | To be mentioned        |                            |
| 25.     | Maximum ratio error          | -    | To be mentioned        |                            |
| 26.     | Maximum phase angle error    | -    | To be mentioned        |                            |
| 27.     | Knee point emf               | -    | To be mentioned        |                            |
| 28.     | Weight                       | Kg   | To be mentioned        |                            |
| 29.     | Drawing                      | -    | To be submitted        |                            |

*for manufacturer:*

Name:

Designation:

Email:

Phone No:

Seal & Signature with Date:

*for tenderer:*

Name:

Designation:

Email:

Phone No:

Seal & Signature with Date:

*N.B: the above information shall be clearly filled up by both manufacturer and tenderer.*

### 9. 415 Volt 400/5 Amps Indoor Type Single Phase Current Transformer

(To be filled up appropriately, then to be signed and sealed by both Tenderer and Manufacturer in Manufacturer's Letterhead Pad)

| Sl. No. | Description                                  | Unit | Required Specification                        | Manufacturer's Particulars |
|---------|--|------|---|----------------------------|
| 1.      | Name of the Manufacturer                     | -    | To be mentioned                               |                            |
| 2.      | Address of the Manufacturer                  | -    | To be mentioned                               |                            |
| 3.      | Country of manufacture                       | -    | To be mentioned                               |                            |
| 4.      | Manufacturer's model no.                     | -    | To be mentioned                               |                            |
| 5.      | Reference standard                           | -    | IEC 60044-1, IEC 61869-2                      |                            |
| 6.      | Application                                  | -    | Metering                                      |                            |
| 7.      | Type   | -    | Induction                                     |                            |
| 8.      | Installation                                 | -    | Indoor  |                            |
| 9.      | Construction                                 | -    | Dry Type Epoxy Resin Cast, ring type          |                            |
| 10.     | Number of Phases                             | -    | Single  |                            |
| 11.     | Rated Frequency                              | Hz   | 50  |                            |
| 12.     | Mounting                                     | -    | On Supporting Structure inside Metering panel |                            |
| 13.     | Rated System Voltage (Phase to Phase)        | V    | 415   |                            |
| 14.     | System Earthing                              | -    | Effectively earthed                           |                            |
| 15.     | Rated secondary current                      | A    | 5A (balanced and unbalanced load)             |                            |
| 16.     | CT Ratio                                     | -    | 400/5   |                            |
| 17.     | Type of Winding:                             |      |   |                            |
|         | a) Primary                                   | -    | Single Winding                                |                            |
|         | b) Secondary                                 | -    | Single Winding                                |                            |
| 18.     | Accuracy Class                               | -    | 0.5   |                            |
| 19.     | Rated Burden                                 | VA   | 5 VA  |                            |
| 20.     | Extended Current Rating (% of rated current) | %    | 120   |                            |
| 21.     | IP rating                                    | -    | IP 51 or better                               |                            |

| Sl. No. | Description                 | Unit | Required Specification                     | Manufacturer's Particulars |
|---------|-----------------------------|------|--|----------------------------|
| 22.     | Polarity marking            | -    | Indelibly marked for primary and secondary |                            |
| 23.     | Core material and grade     | -    | To be mentioned                            |                            |
| 24.     | No. of turn in CT secondary | -    | To be mentioned                            |                            |
| 25.     | Maximum ratio error         | -    | To be mentioned                            |                            |
| 26.     | Maximum phase angle error   | -    | To be mentioned                            |                            |
| 27.     | Knee point emf              | -    | To be mentioned                            |                            |
| 28.     | Weight                      | Kg   | To be mentioned                            |                            |
| 29.     | Drawing                     | -    | To be submitted                            |                            |

for manufacturer:

Name:

Designation:

Email:

Phone No:

Seal & Signature with Date:

for tenderer:

Name:

Designation:

Email:

Phone No:

Seal & Signature with Date:

*N.B: the above information shall be clearly filled up by both manufacturer and tenderer.*

### 10. 415 V Indoor Type Metering Panel

(To be filled up appropriately, then to be signed and sealed by both Tenderer and Manufacturer in Manufacturer's Letterhead Pad)

| Sl. No. | Description   | Unit | Required Specification   | Manufacturer's Particulars |
|---------|---|------|--|----------------------------|
| 1.      | Name of the Manufacturer                            | -    | To be mentioned  |                            |
| 2.      | Address of the Manufacturer                         | -    | To be mentioned  |                            |
| 3.      | Applied Standard                                    | -    | IEC or Equivalent Standard   |                            |
| 4.      | Country of manufacture                              | -    | To be mentioned  |                            |
| 5.      | Type/Model of Metering Panel                        | -    | To be mentioned  |                            |
| 6.      | Materials and Thickness of the Panel and copper bar | -    | The meter box shall be made of 1.6 mm metal sheet duly powder coated, having two compartment of housing-meter, Test Terminal Block in the upper compartment & CT, Copper bus bars in the lower compartment. CT compartment shall have Copper Bus of adequate ampere rating having incoming & outgoing power cable termination option along with insulated suitable glands plate having 08 (eight) hole for incoming & outgoing cable entry & exit. Diameter of each hole shall be suitable for entering incoming & outgoing cable after connecting the glands. |                            |
| 7.      | System Voltage                                      | V    | 415  |                            |
| 8.      | Earthing Provision                                  | -    | The metering unit shall have provision for meter body earthing connection. Moreover, there shall be provision to connect CT secondary to the earthing connection.  |                            |
| 9.      | Dimension of metering unit                          | mm   | To be mentioned  |                            |
| 10.     | Weight  | Kg   | To be mentioned  |                            |

| Sl. No. | Description   | Unit | Required Specification   | Manufacturer's Particulars |
|---------|---|------|--|----------------------------|
| 11.     | Minimum Component to be used:<br>- Upper Compartment: Solid State 3 phase 4 wire 415 V Energy Meter, TTB, looking glass and internal wiring<br>- Lower Compartment: Ring type CT for each phase, solid Cu Bus bar of adequate ampere rating for each phase and neutral<br>- 2 nos. twist tight sealing mechanism at each of two compartment and locking mechanism<br>- Provision for earthing of Metering panel | -    | To be provided   |                            |
| 12.     | Installation of Meter   | -    | Meter shall be installed inside the metering unit in such a way that the Meter information can be downloaded through the optical port by using scan head of HHU/Laptop without opening of lock and breaking of seals |                            |
| 13.     | No. of Cu Bus-bar inside metering unit  |      | 4 (for each of three phase and neutral)  |                            |
| 14.     | Material of Busbar  |      | Copper (Cu)  |                            |
| 15.     | Thickness and width of copper bar (the cross-section area of copper bar shall be sufficient to carry above primary current. Necessary calculation in support of current carrying capacity of each busbar shall be submitted)  | -    | To be mentioned  |                            |
| 16.     | Ingress Protection rating   | -    | IP 51 or better  |                            |
| 17.     | Color of enclosure  | -    | To be mentioned  |                            |
| 18.     | Type of paint used in the enclosure   | -    | To be mentioned  |                            |
| 19.     | Drawing   | -    | To be submitted  |                            |

for manufacturer:

Name:

Designation:

Email:

Phone No:

Seal & Signature with Date:

for tenderer:

Name:

Designation:

Email:

Phone No:

Seal & Signature with Date:

*N.B: the above information shall be clearly filled up by both manufacturer and tenderer.*

### 11. Test Terminal Block

(To be filled up appropriately, then to be signed and sealed by both Tenderer and Manufacturer in Manufacturer's Letterhead Pad)

| Sl. No. | Description   | Unit                     | Required Specification  | Manufacturer's Particulars |
|---------|---|--------------------------|---|----------------------------|
| 1.      | Name of the manufacturer  | -                        | To be mentioned   |                            |
| 2.      | Address of the manufacturer   | -                        | To be mentioned   |                            |
| 3.      | Country of manufacturer   | -                        | To be mentioned   |                            |
| 4.      | Applied Standard  | -                        | IEC   |                            |
| 5.      | Type / Model of Test Terminal Block   | -                        | To be mentioned   |                            |
| 6.      | Voltage Rating  | V                        | 500   |                            |
| 7.      | Insulation Test Voltage   | KV                       | 4   |                            |
| 8.      | Current Rating  | A                        | 20  |                            |
| 9.      | AC RMS withstand voltage  | KV                       | 4   |                            |
| 10.     | Materials of the Test Terminal Block  | -                        | High grade Engineering Plastic/Polycarbonate  |                            |
| 11.     | Type of Test Terminal Block   | -                        | Suitable for 3 Phase 4 Wire meter connection.   |                            |
| 12.     | Diameter of entries (minimum)   | mm                       | 05  |                            |
| 13.     | Dimensions (L x W x H)<br>(Suitable for installation inside the Metering Panels of this contract) | mm<br>x<br>mm<br>x<br>mm | To be mentioned   |                            |
| 15.     | Construction  | -                        | The test block and the cover are made of black Bakelite moulding of Fire-Retardant electric grade. The moulded barriers are provided in base between adjacent terminals to give complete protection against flash over. The cover is secured in place by knurled sealing nuts. All terminals, shorting links, screws are of brass |                            |

| Sl. No. | Description          | Unit | Required Specification   | Manufacturer's Particulars |
|---------|----------------------|------|--|----------------------------|
|         |                      |      | and nickel plated to prevent corrosion.  |                            |
| 16.     | Terminal Arrangement | -    | The basic terminal arrangement consists of three voltage terminals and a neutral terminal together with 3 sets of current terminals and movable links which allow the meter or relay to disconnect from their normal supply voltage. The links are connected to the terminals by means of screws and knobs. When several meters are tested their current circuits should be connected in series. If meters are to be tested individually, separate test terminal blocks are required for each meter. |                            |
| 17.     | Mounting             | -    | Two holes of min 5 mm diameter on opposite sides of the base are provided for panel fixing   |                            |
| 18.     | Drawing              | -    | To be submitted  |                            |

for manufacturer:

Name:

Designation:

Email:

Phone No:

Seal &amp; Signature with Date:

for tenderer:

Name:

Designation:

Email:

Phone No:

Seal &amp; Signature with Date:

*N.B: the above information shall be clearly filled up by both manufacturer and tenderer.*

## 12. AMR Meter Communication Modem

(To be completed on manufacturer's official letterhead pad, duly signed and sealed by both the tenderer and manufacturer)

| Sl. No. | Description                                | Unit   | Required Specification  | Manufacturer's Particulars |
|---------|--|--------|---|----------------------------|
| 1.      | Name of the Manufacturer                   | -      | To be mentioned   |                            |
| 2.      | Address of the Manufacturer                | -      | To be mentioned   |                            |
| 3.      | Place of Manufacture                       | -      | To be mentioned   |                            |
| 4.      | Compliance Standards                       | -      | IEC 60950, CE, EMI/EMC or equivalent                                      |                            |
| 5.      | Model Name / Number                        | -      | To be mentioned   |                            |
| 6.      | Device Type                                | -      | Plug-and-play modem for AMR meter communication                           |                            |
| 7.      | Dimensions                                 | mm     | Shall be mentioned  |                            |
| 8.      | Communication Technology                   | -      | NB-IoT with automatic fallback to cellular network                        |                            |
| 9.      | Supported Protocol for Meter Communication | -      | IEC 62056 (DLMS/COSEM)  |                            |
| 10.     | Communication Capabilities                 | -      | Push, Pull and Over-the-Air (OTA) functionality                           |                            |
| 11.     | Baud Rate                                  | baud/s | 300 to 115200   |                            |
| 12.     | Detection                                  | -      | Auto-detection of Network and Meter                                       |                            |
| 13.     | LED Indicators                             | -      | Minimum 3 LEDs: Power, Network, Communication (Local/Remote)              |                            |
| 14.     | Operating Voltage                          | VAC    | 230 V AC (for 1 $\phi$ systems)<br>415 V AC (for 3 $\phi$ systems)        |                            |
| 15.     | Meter Interface                            | -      | RS232 (DB9 or equivalent standard connector)                              |                            |
| 16.     | SIM Interface                              | -      | 1 Nano SIM (IPv4 & IPv6) with provision for SIM sealing and e-SIM support |                            |
| 17.     | Antenna                                    | -      | High gain (minimum 3 dBi) external antenna; min. 1 meter length           |                            |

| Sl. No. | Description                  | Unit | Required Specification   | Manufacturer's Particulars |
|---------|------------------------------|------|--|----------------------------|
| 18.     | Antenna Mounting Arrangement |      | Shall be provided  |                            |
| 19.     | Power Outage Notification    | -    | Last gasp message support  |                            |
| 20.     | Data Storage Capacity        | MB   | Minimum 8 MB   |                            |
| 21.     | Surge & Impulse Withstand    | kV   | Minimum 6 kV   |                            |
| 22.     | Ingress Protection           | -    | Minimum IP-55, with tamper-evident/break-to-open type enclosure  |                            |
| 23.     | Security Features            | -    | Device-level security with kiosk-mode or similar, restricting user access to only essential functions. |                            |
| 24.     | Local Configuration Tool     | -    | Support for secure local configuration via software, accessible only by authorized personnel.          |                            |

for manufacturer:

Name:

Designation:

Email:

Phone No:

Seal &amp; Signature with Date:

for tenderer:

Name:

Designation:

Email:

Phone No:

Seal &amp; Signature with Date:

*N.B: the above information shall be clearly filled up by both manufacturer and tenderer.*

### 13. Data Acquisition System for AMR Metering

(To be completed on manufacturer's official letterhead pad, duly signed and sealed by both the tenderer and manufacturer)

| Sl. No. | Description                 | Unit | Required Specification  | Manufacturer's Particulars |
|---------|-----------------------------|------|---|----------------------------|
| 1.      | Name of the Manufacturer    | -    | To be mentioned   |                            |
| 2.      | Address of the Manufacturer | -    | To be mentioned   |                            |
| 3.      | System Functions            | -    | Data acquisition and logging, performance monitoring, fault detection and alerts, secure communication, grid compliance reporting, integration with higher-level systems (PCMS/SCADA) |                            |
| 4.      | System Data Transfer        | -    | 4G/5G, Wi-Fi/LAN, RS485/Modbus TCP/IP   |                            |
| 5.      | Meter Reading Modes         | -    | Scheduled (15 min/hourly/daily/monthly) and On-demand   |                            |
| 6.      | User Access Levels          | -    | Role-based (Admin, Operator, Viewer)  |                            |
| 7.      | Web Access                  | -    | Intranet for operations, Internet for data viewing  |                            |
| 8.      | Modem Integration           | -    | Compatible with auto-registration and manual configuration  |                            |
| 9.      | Data Dashboard              | -    | Actionable, showing alarms, statuses, communication health  |                            |
| 10.     | Notifications & Alarms      | -    | Alerts for communication fail, power outage, time drift, signal issues  |                            |
| 11.     | Firmware Management         | -    | OTA firmware upgrade support for modems   |                            |
| 12.     | Data Storage & Archival     | -    | Auto-backup and long-term archival capability   |                            |
| 13.     | Device Management           | -    | Modem, Meter, and SIM   |                            |
| 14.     | Report Generation           | -    | Meter reading, diagnostics, configuration, registration reports, device info, grid compliance reporting   |                            |
| 15.     | Supported Export            | -    | Excel and PDF   |                            |

| Sl. No. | Description   | Unit       | Required Specification   | Manufacturer's Particulars |
|---------|---|------------|--|----------------------------|
|         | Formats   |            |  |                            |
| 16.     | Security Features   | -          | Password-based user access, HTTPS/TLS encryption   |                            |
| 17.     | Integration Capability  | -          | REST API (JSON) for B2B integration with Bhola Palli Bidyut Samity systems (e.g. billing/ERP)    |                            |
| 18.     | Mobile App Support  | -          | for Field configuration & Diagnostics  |                            |
| 19.     | Scalability   | Points     | Supports $\geq$ 100,000 metering points  |                            |
| 20.     | Local and Remote Configuration  | -          | Available for authorized users   |                            |
| 21.     | Compliance Standards  | -          | Industry standard cybersecurity and IT infrastructure compliance, preferably IEC 62443 certified |                            |
| 22.     | HES and MDMS software   |            | The solution shall include software for HES and MDMS and shall be complete in all respect        |                            |
| 23.     | <b>Compatibility:</b><br>The Data Acquisition System for AMR Metering shall be capable of communicating with meters from at least three (03) different manufacturers. | Yes/<br>No | Yes  |                            |

for manufacturer:

Name:

Designation:

Email:

Phone No:

Seal &amp; Signature with Date:

for tenderer:

Name:

Designation:

Email:

Phone No:

Seal &amp; Signature with Date:

*N.B: the above information shall be clearly filled up by both manufacturer and tenderer.*

**14. Servers for Data Acquisition System for HES and MDMS**

(To be completed on manufacturer's official letterhead pad, duly signed and sealed by both the tenderer and manufacturer)

| Sl. No. | Description                 | Unit | Required Specification  | Manufacturer's Particulars |
|---------|-----------------------------|------|---|----------------------------|
| 1.      | Name of the Manufacturer    | -    | To be mentioned   |                            |
| 2.      | Address of the Manufacturer | -    | To be mentioned   |                            |
| 3.      | Place of Manufacture        | -    | To be mentioned   |                            |
| 4.      | Processor & Core            | GHz  | Minimum 8-core, 3.2 GHz or better   |                            |
| 5.      | RAM                         | GB   | Minimum 16 GB   |                            |
| 6.      | Storage                     | TB   | SSD: minimum 1 TB +<br>HDD: minimum 5 TB<br>(with RAID support)                           |                            |
| 7.      | Server Type                 | -    | Rack Mounted Server   |                            |
| 8.      | Network Interfaces          | -    | Dual 10 Gbps Ethernet (IPv4/IPv6)   |                            |
| 9.      | Operating System            | -    | Linux (RHEL/Ubuntu) or Windows Server   |                            |
| 10.     | Virtualization Support      | -    | VMware, KVM, Hyper-V  |                            |
| 11.     | Security Features           | -    | TLS 1.2+, BIOS lockdown, role-based access control  |                            |
| 12.     | Power Supply                | -    | Redundant hot-swappable power supply  |                            |
| 13.     | Management Interface        | -    | Remote management compatible  |                            |
| 14.     | HES and MDMS hardware       |      | The solution shall include hardware for HES and MDMS and shall be complete in all respect |                            |

for manufacturer:

Name:

Designation:

Email:

Phone No:

Seal & Signature with Date:

for tenderer:

Name:

Designation:

Email:

Phone No:

Seal & Signature with Date:

*N.B: the above information shall be clearly filled up by both manufacturer and tenderer.*

**Parameters to be displayed in Energy Meter in Auto Mode and by Push Button:****DISPLAY CYCLE (AUTO)**

|     |   |
|-----|---|
| 1.  | LAMP TEST                                       |
| 2.  | REAL TIME & DATE                                |
| 3.  | METER SERIAL NUMBER                             |
| 4.  | R PHASE ACTIVE FORWARDED ENERGY                 |
| 5.  | Y PHASE ACTIVE FORWARDED ENERGY                 |
| 6.  | B PHASE ACTIVE FORWARDED ENERGY                 |
| 7.  | TOTAL ACTIVE FORWARDED ENERGY REG               |
| 8.  | TOTAL TOD 1 ACTIVE FORWARDED ENERGY REG.(REG.1) |
| 9.  | TOTAL TOD 2 ACTIVE FORWARDED ENERGY REG.(REG.2) |
| 10. | REACTIVE ENERGY LEADING PART FORWARD DIRECTION  |
| 11. | REACTIVE ENERGY LAGGING PART FORWARD DIRECTION  |
| 12. | REACTIVE TOTAL FORWARDED ENERGY REG             |
| 13. | CURRENT MONTH FORWARDED MD IN KW                |
| 14. | LAST MONTH FORWARDED MD IN KW                   |
| 15. | PHASE TO NEUTRAL VOLTAGE (R)                    |
| 16. | PHASE TO NEUTRAL VOLTAGE (Y)                    |
| 17. | PHASE TO NEUTRAL VOLTAGE (B)                    |
| 18. | R PHASE LINE CURRENT                            |
| 19. | Y PHASE LINE CURRENT                            |
| 20. | B PHASE LINE CURRENT                            |
| 21. | INSTANTANEOUS AVERAGE POWER FACTOR              |
| 22. | LAST OCCURRENCE TAMPER ID                       |
| 23. | DATE OF LAST TAMPER OCCURRENCE                  |
| 24. | TIME OF LAST TAMPER OCCURRENCE                  |
| 25. | CONNECTION CHECK/SELF DIAGNOSTIC                |

**DISPLAY CYCLE (PUSH)**

|     |   |
|-----|---|
| 1.  | LAMP TEST   |
| 2.  | REAL TIME   |
| 3.  | DATE  |
| 4.  | METER SERIAL NUMBER                                 |
| 5.  | R PHASE ACTIVE FORWARDED ENERGY                     |
| 6.  | Y PHASE ACTIVE FORWARDED ENERGY                     |
| 7.  | B PHASE ACTIVE FORWARDED ENERGY                     |
| 8.  | TOTAL ACTIVE FORWARDED ENERGY REG                   |
| 9.  | TOTAL TOD 1 ACTIVE FORWARDED ENERGY REG.(REG.1)     |
| 10. | TOTAL TOD 2 ACTIVE FORWARDED ENERGY REG.(REG.2)     |
| 11. | TOTAL ACTIVE EXPORT ENERGY REG                      |
| 12. | REACTIVE ENERGY LEADING PART FORWARD DIRECTION      |
| 13. | REACTIVE ENERGY LAGGING PART FORWARD DIRECTION      |
| 14. | REACTIVE (TOTAL) FORWARDED (LEAD + LAG) ENERGY REG. |
| 15. | PHASE TO NEUTRAL VOLTAGE (R)                        |
| 16. | PHASE TO NEUTRAL VOLTAGE (Y)                        |
| 17. | PHASE TO NEUTRAL VOLTAGE (B)                        |
| 18. | R PHASE LINE CURRENT                                |
| 19. | Y PHASE LINE CURRENT                                |
| 20. | B PHASE LINE CURRENT                                |
| 21. | INSTANTANEOUS AVERAGE POWER FACTOR                  |
| 22. | CURRENT MONTH AVERAGE POWER FACTOR                  |
| 23. | R PHASE POWER FACTOR Q1                             |
| 24. | Y PHASE POWER FACTOR Q2                             |
| 25. | B PHASE POWER FACTOR Q3                             |
| 26. | INSTANTANEOUS LOAD ACTIVE                           |
| 27. | FORWARDED MD REG. (0-24 HRS.)                       |
| 28. | CURRENT MONTH FORWARDED MD IN KW                    |

|     |  |
|-----|--|
| 29. | LAST MONTH FORWARDED MD IN KW                      |
| 30. | FORWARDED CUMULATIVE ACTIVE MD REG                 |
| 31. | RISING DEMAND WITH ELAPSED TIME (ACTIVE FORWARDED) |
| 32. | MD RESET OR BILL COUNT                             |
| 33. | PRESENT PT STATUS                                  |
| 34. | PRESENT CT STATUS                                  |
| 35. | PRESENT OTHERS STATUS                              |
| 36. | FIRST OCCURRENCE TAMPER ID                         |
| 37. | DATE OF 1ST TAMPER OCCURRENCE                      |
| 38. | TIME OF 1ST TAMPER OCCURRENCE                      |
| 39. | LAST OCCURRENCE TAMPER ID                          |
| 40. | DATE OF LAST TAMPER OCCURRENCE                     |
| 41. | TIME OF LAST TAMPER OCCURRENCE                     |
| 42. | LAST RESTORATION TAMPER ID                         |
| 43. | DATE OF LAST TAMPER RESTORATION                    |
| 44. | TIME OF LAST TAMPER RESTORATION                    |
| 45. | CUMULATIVE TAMPER OCCURRENCE COUNTS                |
| 46. | CONNECTION CHECK/SELF DIAGNOSTIC                   |

## 6.3 Form of Completion Certificate

Contract No:  
To:

Date:

*[Name of Contractor]*

Pursuant to GCC Clause 42 (Completion of the Facilities) of the General Conditions of the Contract entered into between yourselves and the Procuring Entity dated *[insert date]*, for the supply and installation of plant and Services for *[name of contract]*, we hereby notify you that the following part(s) of the Facilities was (were) complete on the date specified below, and that, in accordance with the terms of the Contract, the Procuring Entity hereby takes over the said part(s) of the Facilities, together with the responsibility for care and custody and the risk of loss thereof on the date mentioned below.

1. Description of the Facilities or part thereof: \_\_\_\_\_
2. Date of Completion: \_\_\_\_\_

However, you are required to complete the outstanding items listed in the attachment hereto as soon as practicable.

This letter does not relieve you of your obligation to complete the execution of the Facilities in accordance with the Contract nor of your obligations during the Defect Liability Period.

Very truly yours,

for and on behalf of the Procuring Entity

[ *Signature* ]

[ *Title of the Project Manager* ]

## 6.4 Form of Operational Acceptance Certificate

Contract No:

Date:

To:

*[Name of Contractor]*

Pursuant to GCC Clause 43.3 (Operational Acceptance) of the General Conditions of the Contract entered into between yourselves and the Procuring Entity dated *[insert date]*, for the supply and installation of plant and Services for *[name of contract]*, we hereby notify you that the Functional Guarantees of the following part(s) of the Facilities were satisfactorily attained on the date specified below.

1. Description of the Facilities or part thereof: \_\_\_\_\_
2. Date of Operational Acceptance: \_\_\_\_\_

This letter does not relieve you of your obligation to complete the execution of the Facilities in accordance with the Contract nor of your obligations during the Defect Liability Period.

Very truly yours,

for and on behalf of the Procuring Entity

[ *Signature* ]

[ *Title of the Project Manager* ]

## 6.5 Form of Change Order Procedure and Forms

Contract No:  
To:

Date:

*[Name of Contractor]*

### CONTENTS

1. General
2. Change Order Log
3. References for Changes

### ANNEXES

- Annex 1 Request for Change Proposal
- Annex 2 Estimate for Change Proposal
- Annex 3 Acceptance of Estimate
- Annex 4 Change Proposal
- Annex 5 Change Order
- Annex 6 Pending Agreement Change Order
- Annex 7 Application for Change Proposal

## Change Order Procedure

### 1. General

This section provides samples of procedures and forms for implementing changes in the Facilities during the performance of the Contract in accordance with GCC Clause 69 (Change in the Facilities) of the General Conditions.

### 2. Change Order Log

The Contractor shall keep an up-to-date Change Order Log to show the current status of Requests for Change and Changes authorized or pending, as Annex 8. Entries of the Changes in the Change Order Log shall be made to ensure that the log is up-to-date. The Contractor shall attach a copy of the current Change Order Log in the monthly progress report to be submitted to the Procuring Entity.

### 3. References for Changes

- (1) Request for Change as referred to in GCC Clause 69 shall be serially numbered CR-X-nnn.
- (2) Estimate for Change Proposal as referred to in GCC Clause 69 shall be serially numbered CN-X-nnn.
- (3) Acceptance of Estimate as referred to in GCC Clause 69 shall be serially numbered CA-X-nnn.
- (4) Change Proposal as referred to in GCC Clause 69 shall be serially numbered CP-X-nnn.
- (5) Change Order as referred to in GCC Clause 69 shall be serially numbered CO-X-nnn.

Note: (a) Requests for Change issued from the Procuring Entity's Home Office and the Site representatives of the Procuring Entity shall have the following respective references:

|             |          |
|-------------|----------|
| Home Office | CR-H-nnn |
| Site        | CR-S-nnn |

- (b) The above number "nnn" is the same for Request for Change, Estimate for Change Proposal, Acceptance of Estimate, Change Proposal and Change Order.

## Annex 1. Request for Change Proposal

(Procuring Entity's Letterhead)

To:

Date:

Attention:

Contract Name:

Contract Number:

With reference to the captioned Contract, you are requested to prepare and submit a Change Proposal for the Change noted below in accordance with the following instructions within \_\_\_\_\_ days of the date of this letter \_\_\_\_\_.

1. Title of Change: \_\_\_\_\_
2. Change Request No. \_\_\_\_\_
3. Originator of Change: Procuring Entity: \_\_\_\_\_  
Contractor (by Application for Change Proposal No. \_\_\_\_\_):

4. Brief Description of Change: \_\_\_\_\_

5. Facilities and/or Item No. of equipment related to the requested Change: \_\_\_\_\_

6. Reference drawings and/or technical documents for the request of Change:

| <u>Drawing No./Document No.</u> | <u>Description</u> |
|---------------------------------|--------------------|
|---------------------------------|--------------------|

7. Detailed conditions or special requirements on the requested Change: \_\_\_\_\_

8. General Terms and Conditions:

- (a) Please submit your estimate to us showing what effect the requested Change will have on the Contract Price.
- (b) Your estimate shall include your claim for the additional time, if any, for completion of the requested Change.
- (c) If you have any opinion negative to the adoption of the requested Change in connection with the conformability to the other provisions of the Contract or the safety of the Plant or Facilities, please inform us of your opinion in your proposal of revised provisions.
- (d) Any increase or decrease in the work of the Contractor relating to the services of its personnel shall be calculated.
- (e) You shall not proceed with the execution of the work for the requested Change until we have accepted and confirmed the amount and nature in writing.

\_\_\_\_\_

|                               |  |
|-------------------------------|--|
| Signature:                    | <i>[insert signature of authorised representative of the Procuring Entity]</i> |
| Name:                         | <i>[insert full name of signatory with National ID Number]</i>                 |
| Title of the Signatory:       | <i>[insert title of the Signatory]</i>   |
| Name of the Procuring Entity: | <i>[insert name of the Procuring Entity]</i>                                   |

## Annex 2. Estimate for Change Proposal

(Contractor's Letterhead)

To:

Date:

Attention:

Contract Name:

Contract Number:

With reference to your Request for Change Proposal, we are pleased to notify you of the approximate cost of preparing the below-referenced Change Proposal in accordance with GCC Sub-Clause 69.2.1 of the General Conditions. We acknowledge that your agreement to the cost of preparing the Change Proposal, in accordance with GCC Sub-Clause 69.2.2, is required before estimating the cost for change work.

1. Title of Change: \_\_\_\_\_
2. Change Request No./Rev.: \_\_\_\_\_
3. Brief Description of Change: \_\_\_\_\_
4. Scheduled Impact of Change: \_\_\_\_\_
5. Cost for Preparation of Change Proposal: \_\_\_\_\_<sup>2</sup>

(a) Engineering (Amount)

- (i) Engineer \_\_\_\_\_ hrs x \_\_\_\_\_ rate/hr =
- (ii) Draftsperson \_\_\_\_\_ hrs x \_\_\_\_\_ rate/hr =
- Sub-total \_\_\_\_\_ hrs

Total Engineering Cost

(b) Other Cost

Total Cost (a) + (b)

|                               |  |
|-------------------------------|--|
| Signature:                    | <i>[insert signature of authorised representative of the Procuring Entity]</i> |
| Name:                         | <i>[insert full name of signatory with National ID Number]</i>                 |
| Title of the Signatory:       | <i>[insert title of the Signatory]</i>   |
| Name of the Procuring Entity: | <i>[insert name of the Procuring Entity]</i>                                   |

<sup>2</sup> Costs shall be in the currencies of the Contract.

### Annex 3. Acceptance of Estimate

(Procuring Entity's Letterhead)

To:

Date:

Attention:

Contract Name:

Contract Number:

We hereby accept your Estimate for Change Proposal and agree that you should proceed with the preparation of the Change Proposal.

1. Title of Change: \_\_\_\_\_
2. Change Request No./Rev.: \_\_\_\_\_
3. Estimate for Change Proposal No./Rev.: \_\_\_\_\_
4. Acceptance of Estimate No./Rev.: \_\_\_\_\_
5. Brief Description of Change: \_\_\_\_\_
6. Other Terms and Conditions: In the event that we decide not to order the Change accepted, you shall be entitled to compensation for the cost of preparation of Change Proposal described in your Estimate for Change Proposal mentioned in para. 3 above in accordance with GCC Clause 69 of the General Conditions.

|                               |  |
|-------------------------------|--|
| Signature:                    | <i>[insert signature of authorised representative of the Procuring Entity]</i> |
| Name:                         | <i>[insert full name of signatory with National ID Number]</i>                 |
| Title of the Signatory:       | <i>[insert title of the Signatory]</i>   |
| Name of the Procuring Entity: | <i>[insert name of the Procuring Entity]</i>                                   |

## Annex 4. Change Proposal

(Contractor's Letterhead)

To:

Date:

Attention:

Contract Name:

Contract Number:

In response to your Request for Change Proposal No. \_\_\_\_\_, we hereby submit our proposal as follows:

1. Title of Change: \_\_\_\_\_
2. Change Proposal No./Rev.: \_\_\_\_\_
3. Originator of Change: Procuring Entity: / \_\_\_\_\_  
Contractor: \_\_\_\_\_
4. Brief Description of Change: \_\_\_\_\_
5. Reasons for Change: \_\_\_\_\_
6. Facilities and/or Item No. of Equipment related to the requested Change:  
\_\_\_\_\_
7. Reference drawings and/or technical documents for the requested Change:

| <u>Drawing/Document No.</u> | <u>Description</u> |
|-----------------------------|--------------------|
|-----------------------------|--------------------|

8. Estimate of increase/decrease to the Contract Price resulting from Change Proposal:<sup>3</sup>

(Amount)

- (a) Direct material
- (b) Major construction equipment
- (c) Direct field labor (Total \_\_\_\_\_hrs)
- (d) Subcontracts
- (e) Indirect material and labor
- (f) Site supervision
- (g) Head office technical staff salaries

---

<sup>3</sup> Costs shall be in the currencies of the Contract.

|                    |                           |
|--------------------|---------------------------|
| Process engineer   | _____ hrs @ _____ rate/hr |
| Project engineer   | _____ hrs @ _____ rate/hr |
| Equipment engineer | _____ hrs @ _____ rate/hr |
| Procurement        | _____ hrs @ _____ rate/hr |
| Draftsperson       | _____ hrs @ _____ rate/hr |
| Total              | _____ hrs                 |

- (h) Extraordinary costs (computer, travel, etc.)
- (i) Fee for general administration, \_\_\_\_\_ % of Items
- (j) Taxes and customs duties

Total lump sum cost of Change Proposal  
*(Sum of items (a) to (j))*

Cost to prepare Estimate for Change Proposal  
*(Amount payable if Change is not accepted)*

- 9. Additional time for Completion required due to Change Proposal
- 10. Effect on the Functional Guarantees
- 11. Effect on the other terms and conditions of the Contract
- 12. Validity of this Proposal: within *[Number]* days after receipt of this Proposal by the Procuring Entity
- 13. Other terms and conditions of this Change Proposal:
  - (a) You are requested to notify us of your acceptance, comments or rejection of this detailed Change Proposal within \_\_\_\_\_ days from your receipt of this Proposal.
  - (b) The amount of any increase and/or decrease shall be taken into account in the adjustment of the Contract Price.
  - (c) Contractor’s cost for preparation of this Change Proposal:<sup>2</sup>

|                         |  |
|-------------------------|--|
| Signature:              | <i>[insert signature of authorised representative of the Contractor]</i> |
| Name:                   | <i>[insert full name of signatory with National ID Number]</i>           |
| Title of the Signatory: | <i>[insert title of the Signatory]</i>                                   |
| Name of the Contractor: | <i>[insert name of the Contractor]</i>                                   |

<sup>2</sup> Specify where necessary.

## Annex 5. Change Order

(Procuring Entity's Letterhead)

To:

Date:

Attention:

Contract Name:

Contract Number:

We approve the Change Order for the work specified in the Change Proposal (No. \_\_\_\_\_), and agree to adjust the Contract Price, Time for Completion and/or other conditions of the Contract in accordance with GCC Clause 69 of the General Conditions.

1. Title of Change: \_\_\_\_\_

2. Change Request No./Rev.: \_\_\_\_\_

3. Change Order No./Rev.: \_\_\_\_\_

4. Originator of Change: Procuring Entity: \_\_\_\_\_  
Contractor: \_\_\_\_\_

5. Authorized Price:

Ref. No.: \_\_\_\_\_ Date: \_\_\_\_\_  
Foreign currency portion \_\_\_\_\_ plus Local currency portion \_\_\_\_\_

6. Adjustment of Time for Completion

None                      Increase \_\_\_\_\_ days                      Decrease \_\_\_\_\_ days

7. Other effects, if any

Authorized by: \_\_\_\_\_  
(Procuring Entity)

Date:

Accepted by: \_\_\_\_\_  
(Contractor)

Date:

## Annex 6. Pending Agreement Change Order

(Procuring Entity's Letterhead)

To:

Date:

Attention:

Contract Name:

Contract Number:

We instruct you to carry out the work in the Change Order detailed below in accordance with GCC Clause 64 of the General Conditions.

1. Title of Change: \_\_\_\_\_
2. Procuring Entity's Request for Change Proposal No./Rev.: \_\_\_\_\_ dated: \_\_\_\_\_
3. Contractor's Change Proposal No./Rev.: \_\_\_\_\_ dated: \_\_\_\_\_
4. Brief Description of Change: \_\_\_\_\_
5. Facilities and/or Item No. of equipment related to the requested Change: \_\_\_\_\_
6. Reference Drawings and/or technical documents for the requested Change:
 

| <u>Drawing/Document No.</u> | <u>Description</u> |
|-----------------------------|--------------------|
|                             |                    |
7. Adjustment of Time for Completion:
8. Other change in the Contract terms:
9. Other terms and conditions:

|                               |  |
|-------------------------------|--|
| Signature:                    | <i>[insert signature of authorised representative of the Procuring Entity]</i> |
| Name:                         | <i>[insert full name of signatory with National ID Number]</i>                 |
| Title of the Signatory:       | <i>[insert title of the Signatory]</i>   |
| Name of the Procuring Entity: | <i>[insert name of the Procuring Entity]</i>                                   |

## Annex 7. Application for Change Proposal

(Contractor's Letterhead)

To:

Date:

Attention:

Contract Name:

Contract Number:

We hereby propose that the below-mentioned work be treated as a Change in the Facilities.

1. Title of Change: \_\_\_\_\_
2. Application for Change Proposal No./Rev.: \_\_\_\_\_ dated: \_\_\_\_\_
3. Brief Description of Change: \_\_\_\_\_
4. Reasons for Change:
5. Order of Magnitude Estimation (in the currencies of the Contract):
6. Scheduled Impact of Change:
7. Effect on Functional Guarantees, if any:
8. Appendix:

|                         |  |
|-------------------------|--|
| Signature:              | <i>[insert signature of authorised representative of the Contractor]</i> |
| Name:                   | <i>[insert full name of signatory with National ID Number]</i>           |
| Title of the Signatory: | <i>[insert title of the Signatory]</i>                                   |
| Name of the Contractor: | <i>[insert name of the Contractor]</i>                                   |
|                         |  |

Signature

Seal

## Annex 8. Guaranteed Generation Chart

(To be provided by the contractor)

| Year | Installed Capacity (MWp) | Estimated Solar Generation (Per Year) | Allowable Degradation (%) | Guaranteed Generation (80% of Estimated Generation unit or kWh) | Remarks |
|------|--------------------------|---------------------------------------|---------------------------|---|---------|
| 1    |                          |                                       | 0.00                      |   |         |
| 2    |                          |                                       | 0.80                      |   |         |
| 3    |                          |                                       | 0.80                      |   |         |
| 4    |                          |                                       | 0.80                      |   |         |
| 5    |                          |                                       | 0.80                      |   |         |
| 6    |                          |                                       | 0.80                      |   |         |
| 7    |                          |                                       | 0.80                      |   |         |
| 8    |                          |                                       | 0.80                      |   |         |
| 9    |                          |                                       | 0.80                      |   |         |
| 10   |                          |                                       | 0.80                      |   |         |
| 11   |                          |                                       | 0.80                      |   |         |
| 12   |                          |                                       | 0.80                      |   |         |
| 13   |                          |                                       | 0.80                      |   |         |
| 14   |                          |                                       | 0.80                      |   |         |
| 15   |                          |                                       | 0.80                      |   |         |
| 16   |                          |                                       | 0.80                      |   |         |
| 17   |                          |                                       | 0.80                      |   |         |
| 18   |                          |                                       | 0.80                      |   |         |
| 19   |                          |                                       | 0.80                      |   |         |
| 20   |                          |                                       | 0.80                      |   |         |

## Appendix- A: List of prospective sites

“In addition to the listed schools and hospitals, other Government offices and interested private organizations located within the project area may be included as eligible rooftop sites, subject to technical feasibility, availability of rooftop space, and approval of the Utility.”

## প্যাকেজ-৩

## উপজেলাঃ লালমোহন

| ক্রম | জেলা | সমিতির নাম | উপজেলা  | ইউনিয়ন | শিক্ষা প্রতিষ্ঠানের নাম               | মোট ছাদের ক্ষেত্রফল (বর্গফুট) | ছাদের ক্ষেত্রফল (বর্গফুট) | ছাদের ক্ষেত্রফল অনুযায়ী উৎপাদন ক্ষমতা | অনুমোদিত লোড | সোলার সিস্টেম স্থাপনে কি কি কারিগরি পরিবর্তন হবে | সংযোগের ধরণ (১ ফেজ/ ৩ ফেজ) | সংযোগের ধরণ ও ফেজ না হলে নিকটবর্তী ৩ ফেজ লাইনের সম্ভব্য দূরত্ব (কি.মি.) | ৩ ফেজ লাইন না থাকলে লাইন নির্মাণ/ Conversion সম্ভব্য খরচ | বিদ্যুৎ বিভাগের রুফটপ সোলার ক্যান্টাকুলেটর অনুযায়ী |         | মন্তব্য |
|------|------|------------|---------|---------|---------------------------------------|-------------------------------|---------------------------|--|--------------|--|----------------------------|---|--|---|---------|---------|
|      |      |            |         |         |                                       |                               |                           |  |              |  |                            |   |  | ক্ষমতা  | খরচ     |         |
| ১    | ২    | ৩          | ৪       | ৫       | ৬                                     | ৭                             | ৮                         | ৯                                      | ১০           | ১১   | ১২                         | ১৩  | ১৪   | ১৫  | ১৬      | ১৭      |
| ১    | ভোলা | ভোলা পবিস  | লালমোহন | পৌরসভা  | লালমোহন হাই ব্রড সঃ প্রাঃ বিঃ         | ৩২০০                          | ২২৪০                      | ৩৭.৩৩                                  | ২.০          | রূপান্তর   | ১-ফেজ                      | ০.১২  | ৪৩৫৩৭৮.০০  | ৩২  | ১০৫১১৭৬ |         |
| ২    | ভোলা | ভোলা পবিস  | লালমোহন | পৌরসভা  | লালমোহন ২ নং সঃ প্রাঃ বিঃ             | ৩২০০                          | ২২৪০                      | ৩৭.৩৩                                  | ১.৯৩         | রূপান্তর   | ১-ফেজ                      | ০.১৮  | ৪৬৫৩৭৮.০০  | ৩২  | ১০৫১১৭৬ |         |
| ৩    | ভোলা | ভোলা পবিস  | লালমোহন | পৌরসভা  | লালমোহন মডেল সঃ প্রাঃ বিঃ             | ৩২০০                          | ২২৪০                      | ৩৭.৩৩                                  | ২.০          | রূপান্তর   | ১-ফেজ                      | ০.১২  | ৪৩৫৩৭৮.০০  | ৩২  | ১০৫১১৭৬ |         |
| ৪    | ভোলা | ভোলা পবিস  | লালমোহন | পৌরসভা  | কলেজ সংলগ্ন সঃ প্রাঃ বিঃ              | ৩২০০                          | ২২৪০                      | ৩৭.৩৩                                  | ১.০          |  | ১-ফেজ                      | ০.০০  | ৩৭৫৩৭৮.০০  | ৩২  | ১০৫১১৭৬ |         |
| ৫    | ভোলা | ভোলা পবিস  | লালমোহন | পৌরসভা  | দঃ মেহেরগঞ্জ সঃ প্রাঃ বিঃ             | ৩২০০                          | ২২৪০                      | ৩৭.৩৩                                  | ০.৪          |  | ১-ফেজ                      | ০.০০  | ৩৭৫৩৭৮.০০  | ৩২  | ১০৫১১৭৬ |         |
| ৬    | ভোলা | ভোলা পবিস  | লালমোহন | পৌরসভা  | নয়ানীগ্রাম সঃ প্রাঃ বিঃ              | ৩২০০                          | ২২৪০                      | ৩৭.৩৩                                  | ১.৫          |  | ১-ফেজ                      | ০.০০  | ৩৭৫৩৭৮.০০  | ৩২  | ১০৫১১৭৬ |         |
| ৭    | ভোলা | ভোলা পবিস  | লালমোহন | পৌরসভা  | লালমোহন কলেজিয়েট মাঃ বিঃ             | ৪৮০০                          | ৩৩৬০                      | ৫৬                                     | ২.০          | রূপান্তর   | ১-ফেজ                      | ০.২৪  | ৬৪৬৮৯১.০০  | ৪৮  | ১৫৮৫২৪৬ |         |
| ৮    | ভোলা | ভোলা পবিস  | লালমোহন | পৌরসভা  | হা-মীম রেসিডেন্সিয়াল স্কুল এন্ড কলেজ | ৪৮০০                          | ৩৩৬০                      | ৫৬                                     | ৭.০          |  | ১-ফেজ                      | ০.০০  | ৫২৬৮৯১.০০  | ৪৮  | ১৫৮৫২৪৬ |         |
| ৯    | ভোলা | ভোলা পবিস  | লালমোহন | পৌরসভা  | হোসনে আরা বেগম নিম্ন মাঃ বিঃ          | ৪৮০০                          | ৩৩৬০                      | ৫৬                                     | ২.০          |  | ১-ফেজ                      | ০.০০  | ৫২৬৮৯১.০০  | ৪৮  | ১৫৮৫২৪৬ |         |
| ১০   | ভোলা | ভোলা পবিস  | লালমোহন | পৌরসভা  | সরকারি শাহাবাজপুর কলেজ                | ৪৮০০                          | ৩৩৬০                      | ৫৬                                     | ৭.০          | রূপান্তর   | ১-ফেজ                      | ০.২৪  | ৬৪৬৮৯১.০০  | ৪৮  | ১৫৮৫২৪৬ |         |

Procurement of Solar Energy from 4.136 MWp Rooftop Solar System in Bhola Palli Bidyut Samity (LALMOHON UPAZILLA) Area on BOO (Build, Own, Operate) Basis following OpEx Model.

|    |      |           |         |        |   |      |      |       |       |          |       |      |           |    |         |
|----|------|-----------|---------|--------|---|------|------|-------|-------|----------|-------|------|-----------|----|---------|
| ১১ | ভোলা | ভোলা পবিস | লালমোহন | পৌরসভা | লালমোহন সরকারি টেকনিক্যাল স্কুল ও কলেজ  | ৪৮০০ | ৩৩৬০ | ৫৬    | ৩২০.০ |          | ৩-ফেজ | ০.০০ | ০.০০      | ৪৮ | ১৫৮৫২৪৬ |
| ১২ | ভোলা | ভোলা পবিস | লালমোহন | পৌরসভা | করিমুমেছা হাফিজ মহিলা কলেজ              | ৪৮০০ | ৩৩৬০ | ৫৬    | ২.০   |          | ১-ফেজ | ০.০০ | ৫২৬৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |
| ১৩ | ভোলা | ভোলা পবিস | লালমোহন | পৌরসভা | হাজী মোঃ নুরুল ইসলাম চৌধুরী ডিগ্রি কলেজ | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ২.০   | রূপান্তর | ১-ফেজ | ০.১২ | ৪৩৫৩৭৮.০০ | ৩২ | ১৫৮৫২৪৬ |
| ১৪ | ভোলা | ভোলা পবিস | লালমোহন | পৌরসভা | লালমোহন কৃষি প্রযুক্তি ইন্সটিটিউট       | ৪৮০০ | ৩৩৬০ | ৫৬    | ৩.০   |          | ১-ফেজ | ০.০০ | ৫২৬৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |
| ১৫ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | ডাক্তারী হাট সং প্রাঃ বিঃ               | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০   | রূপান্তর | ১-ফেজ | ০.১৮ | ৪৬৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ১৬ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | উঃ কালমা সং প্রাঃ বিঃ                   | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০   | রূপান্তর | ১-ফেজ | ০.৩০ | ৫২৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ১৭ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | উঃ চর ছখিনা সং প্রাঃ বিঃ                | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০   | রূপান্তর | ১-ফেজ | ০.২৪ | ৪৯৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ১৮ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | দঃ চর ছখিনা সং প্রাঃ বিঃ                | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০   | রূপান্তর | ১-ফেজ | ০.২৪ | ৪৯৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ১৯ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | দঃ কালমা সং প্রাঃ বিঃ                   | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০   | রূপান্তর | ১-ফেজ | ০.২৪ | ৪৯৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ২০ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | বালুরচর সং প্রাঃ বিঃ                    | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০   | রূপান্তর | ১-ফেজ | ০.৩৬ | ৫৫৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ২১ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | দঃ বালুর চর সং প্রাঃ বিঃ                | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০   |          | ১-ফেজ | ০.০০ | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ২২ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | মধ্য কালমা সং প্রাঃ বিঃ                 | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০   |          | ১-ফেজ | ০.০০ | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ২৩ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | লেজ ছখিনা একতা বাজার সং প্রাঃ বিঃ       | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০   |          | ১-ফেজ | ০.০০ | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ২৪ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | উঃ পূর্ব চর ছখিনাসং প্রাঃ বিঃ           | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০   |          | ১-ফেজ | ০.০০ | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ২৫ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | উঃ বালুরচর সং প্রাঃ বিঃ                 | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০   | রূপান্তর | ১-ফেজ | ০.৩০ | ৫২৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ২৬ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | মধ্য বালুরচর সং প্রাঃ বিঃ               | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০   | রূপান্তর | ১-ফেজ | ০.৩০ | ৫২৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ২৭ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | বালুর চর দালালবাজার সং প্রাঃ বিঃ        | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০   |          | ১-ফেজ | ০    | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ২৮ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | মধ্য চরলক্ষ্মী সং প্রাঃ বিঃ             | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০   | রূপান্তর | ১-ফেজ | ০.১৮ | ৪৬৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |

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|----|------|-----------|---------|--------|--------------------------------------|------|------|-------|-----|----------|-------|-------|-----------|----|---------|
| ২৯ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | লেজ ছকিনা সঃ প্রাঃ বিঃ               | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ |          | ১-ফেজ | ০     | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৩০ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | মধ্য চর ছকিনা ০২ নং সঃ প্রাঃ বিঃ     | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.২৪  | ৪৯৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৩১ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | ডাত্তরী হাট মাঃ বিঃ                  | ৪৮০০ | ৩৩৬০ | ৫৬    | ১.০ |          | ১-ফেজ | ০     | ৫২৬৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |
| ৩২ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | বালুর চর দালাল বাজার স্কুল এন্ড কলেজ | ৪৮০০ | ৩৩৬০ | ৫৬    | ১.০ |          | ১-ফেজ | ০     | ৫২৬৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |
| ৩৩ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | আবদুর হামান মাঃ বিঃ                  | ৪৮০০ | ৩৩৬০ | ৫৬    | ১.০ | রূপান্তর | ১-ফেজ | ০.১২  | ৫৮৬৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |
| ৩৪ | ভোলা | ভোলা পবিস | লালমোহন | কালমা  | ডাত্তরী হাট ফাজিল মাদ্রাসা           | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ |          | ১-ফেজ | ০     | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৩৫ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | দেবীরচর সঃ প্রাঃ বিঃ                 | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ |          | ১-ফেজ | ০     | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৩৬ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | পঃ চরটিটিয়া সঃ প্রাঃ বিঃ            | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.০৬০ | ৪০৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৩৭ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | নাজিরপুর সঃ প্রাঃ বিঃ                | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.১৮  | ৪৬৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৩৮ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | চর কচপিয়া সঃ প্রাঃ বিঃ              | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.৩৭  | ৫৬০৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৩৯ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | পূর্ব চর কচপিয়া সঃ প্রাঃ বিঃ        | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ |          | ১-ফেজ | ০     | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৪০ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | তোরাবগঞ্জ সঃ প্রাঃ বিঃ               | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০     | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৪১ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | মাছুমা খানম সঃ প্রাঃ বিঃ             | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.১২  | ৪৩৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৪২ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | মধ্য বদরপু সেনের হাওলা সঃ প্রাঃ বিঃ  | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.৩৭  | ৫৬০৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৪৩ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | উঃ বদরপুর সঃ প্রাঃ বিঃ               | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.১২  | ৪৩৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৪৪ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | দঃ বদরপুর সঃ প্রাঃ বিঃ               | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ |          | ১-ফেজ | ০     | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৪৫ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | চরটিটিয়া আদর্শ সঃ প্রাঃ বিঃ         | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.৩০  | ৫২৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৪৬ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | জনতা বাজার মাধ্যমিক বিঃ              | ৪৮০০ | ৩৩৬০ | ৫৬    | ২.০ | রূপান্তর | ১-ফেজ | ০.১২  | ৫৮৬৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |

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|----|------|-----------|---------|--------|---|------|------|-------|-----|----------|-------|-------|-----------|----|---------|
| ৪৭ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | দেবীর চর মাধ্যমিক বিদ্যালয়             | ৪৮০০ | ৩৩৬০ | ৫৬    | ২.০ |          | ১-ফেজ | ০     | ৫২৬৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |
| ৪৮ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | হাজীগঞ্জ মাধ্যমিক বিদ্যালয়             | ৪৮০০ | ৩৩৬০ | ৫৬    | ২.০ | রূপান্তর | ১-ফেজ | ০.১৮  | ৬১৬৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |
| ৪৯ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | আশ্রাফনগর মাধ্যমিক বিদ্যালয়            | ৪৮০০ | ৩৩৬০ | ৫৬    | ২.০ |          | ১-ফেজ | ০     | ৫২৬৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |
| ৫০ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | একতা বাজার নিম্ন মাধ্যমিক বিদ্যালয়     | ৪৮০০ | ৩৩৬০ | ৫৬    | ২.০ |          | ১-ফেজ | ০     | ৫২৬৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |
| ৫১ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | নাজিরপুর দারুল আউলিয়া ফাজিল মাদ্রাসা   | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ৩.০ | রূপান্তর | ১-ফেজ | ০.২৭৩ | ৫৬১৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৫২ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | দেবীরচর বাজার হোসাইনিয়া দাখিল মাদ্রাসা | ২৪০০ | ১৪৪০ | ২৪    | ২.০ | রূপান্তর | ১-ফেজ | ০.১২  | ৩৯৭৬১১.০০ | ২৪ | ৮৫৬৪৩২  |
| ৫৩ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | আলহাজ্ব আঃ মোতালেব মিয়া দাখিল মাদ্রাসা | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ২.০ |          | ১-ফেজ | ০     | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৫৪ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর | নুরুমবী চৌধুরী মহা বিদ্যালয়            | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ৩.০ | রূপান্তর | ১-ফেজ | ০.১২  | ৪৩৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৫৫ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা | উঃ চরভূতা রহিমপুর সঃ প্রাঃ বিঃ          | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.৩০  | ৫২৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৫৬ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা | পূজাখালী সঃ প্রাঃ বিঃ                   | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.০৬  | ৪০৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৫৭ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা | হাজীগঞ্জ সঃ প্রাঃ বিঃ                   | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.৩০  | ৪৮৭৬১১.০০ | ৩২ | ১০৫১১৭৬ |
| ৫৮ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা | হাজী রশিদ আহম্মদ সঃ প্রাঃ বিঃ           | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.৩০  | ৫২৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৫৯ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা | চতলা মোহাম্মাদিয়া সঃ প্রাঃ বিঃ         | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ |          | ১-ফেজ | ০     | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৬০ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা | হাসিনা খানম সঃ প্রাঃ বিঃ                | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ |          | ১-ফেজ | ০     | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৬১ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা | পূর্ব হরিগঞ্জ সঃ প্রাঃ বিঃ              | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.১২  | ৪৩৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৬২ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা | উঃ হরিগঞ্জ সঃ প্রাঃ বিঃ                 | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.৩৬  | ৫৫৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৬৩ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা | উঃ পঃ হরিগঞ্জ সঃ প্রাঃ বিঃ              | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.২৪  | ৪৯৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |

|    |      |           |         |            |   |      |      |       |     |          |       |      |           |    |         |
|----|------|-----------|---------|------------|---|------|------|-------|-----|----------|-------|------|-----------|----|---------|
| ৬৪ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা     | উঃ তারাগঞ্জ সঃ প্রাঃ বিঃ                      | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.২৪ | ৪৯৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৬৫ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা     | তারাগঞ্জ সঃ প্রাঃ বিঃ                         | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.৪২ | ৫৮৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৬৬ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা     | দঃ তারাগঞ্জ ইসলামিয়া সঃ প্রাঃ বিঃ            | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ |          | ১-ফেজ | ০    | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৬৭ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা     | চতলা মোহাম্মদিয়া মাধ্যমিক বিদ্যালয়          | ৪৮০০ | ৩৩৬০ | ৫৬    | ২.০ | রূপান্তর | ১-ফেজ | ০.১২ | ৫৮৬৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |
| ৬৮ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা     | দ্বীপ শিখা মাধ্যমিক বিদ্যালয়                 | ৪৮০০ | ৩৩৬০ | ৫৬    | ৩.০ | রূপান্তর | ১-ফেজ | ০.১২ | ৫৮৬৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |
| ৬৯ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা     | উত্তর চরভূতা রহিমপুর নিম্ন মাধ্যমিক বিদ্যালয় | ৪৮০০ | ৩৩৬০ | ৫৬    | ১.০ |          | ১-ফেজ | ০    | ৫২৬৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |
| ৭০ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | ধলীগৌরনগর ২ নং সঃ প্রাঃ বিঃ                   | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.০৬ | ৪৩৭৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৭১ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | নয়াভাংগনী সঃ প্রাঃ বিঃ                       | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ |          | ১-ফেজ | ০    | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৭২ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | ভেদুরিয়া সঃ প্রাঃ বিঃ                        | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.৩০ | ৫২৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৭৩ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | কুলচড়া সঃ প্রাঃ বিঃ                          | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.৩০ | ৫২৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৭৪ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | বুড়িরচর সঃ প্রাঃ বিঃ                         | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.১২ | ৪৩৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৭৫ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | ধলীগৌরনগর এম রহমান সঃ প্রাঃ বিঃ               | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.১২ | ৪৩৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৭৬ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | চর কালাচাঁদ আয়শা সঃ প্রাঃ বিঃ                | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ |          | ১-ফেজ | ০    | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৭৭ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | রোজিনা সঃ প্রাঃ বিঃ                           | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.২৪ | ৪৯৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৭৮ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | চরপাতা সঃ প্রাঃ বিঃ                           | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রূপান্তর | ১-ফেজ | ০.২৪ | ৪৯৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৭৯ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | ধলীগৌর নগর মাধ্যমিক বিদ্যালয়                 | ৪৮০০ | ৩৩৬০ | ৫৬    | ১.০ | রূপান্তর | ১-ফেজ | ০.০৬ | ৫৫৬৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |
| ৮০ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | হাজির হাট টি এ মাধ্যমিক বিদ্যালয়             | ৪৮০০ | ৩৩৬০ | ৫৬    | ১.০ |          | ১-ফেজ | ০    | ৫২৬৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |

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|----|------|-----------|---------|------------|--|------|------|-------|-----|----------|-------|-------|-----------|----|---------|
| ৮১ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | জি.এম. মাধ্যমিক বিদ্যালয়              | ৪৮০০ | ৩৩৬০ | ৫৬    | ১.০ | রুপান্তর | ১-ফেজ | ০.১৮  | ৬১৬৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |
| ৮২ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | ভেদুরিয়া সেরাজিয়া ফাজিল মাদ্রাসা     | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রুপান্তর | ১-ফেজ | ০.০৬  | ৪০৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৮৩ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | হাজিরহাট টি.এ দাখিল মাদ্রাসা           | ২৪০০ | ১৪৪০ | ২৪    | ১.০ |          | ১-ফেজ | ০     | ৩৩৭৬১১.০০ | ২৪ | ৮৫৬৪৩২  |
| ৮৪ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | ধলীগৌর নগর ডিগ্রি কলেজ                 | ৩০০০ | ১৮০০ | ৩০    | ১.০ | রুপান্তর | ১-ফেজ | ০.৩০  | ৫২৫৩৭৮.০০ | ৩০ | ৯৭৭৪৬৪  |
| ৮৫ | ভোলা | ভোলা পবিস | লালমোহন | চরউমেদ     | গজারিয়া সং প্রাঃ বিঃ                  | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রুপান্তর | ১-ফেজ | ০.০৬  | ৫৮৮৮৯১.০০ | ৩২ | ১০৫১১৭৬ |
| ৮৬ | ভোলা | ভোলা পবিস | লালমোহন | চরউমেদ     | পঃ চরউমেদ ০২ নং সং প্রাঃ বিঃ           | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রুপান্তর | ১-ফেজ | ০.২৪  | ৫২৭৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৮৭ | ভোলা | ভোলা পবিস | লালমোহন | চরউমেদ     | পূর্ব কচুয়াখালী সং প্রাঃ বিঃ          | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রুপান্তর | ১-ফেজ | ০.২৪  | ৪৯৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৮৮ | ভোলা | ভোলা পবিস | লালমোহন | চরউমেদ     | মহিষখালী সং প্রাঃ বিঃ                  | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রুপান্তর | ১-ফেজ | ০.৩০  | ৫২৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৮৯ | ভোলা | ভোলা পবিস | লালমোহন | রমাগঞ্জ    | রায়চাঁদ সং প্রাঃ বিঃ                  | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | নতুন     | ১-ফেজ | ০.০৬  | ৪৩৭৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৯০ | ভোলা | ভোলা পবিস | লালমোহন | রমাগঞ্জ    | রমাগঞ্জ সং প্রাঃ বিঃ                   | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রুপান্তর | ১-ফেজ | ০.১৮  | ৫৬১৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৯১ | ভোলা | ভোলা পবিস | লালমোহন | রমাগঞ্জ    | পূর্ব রমাগঞ্জ সং প্রাঃ বিঃ             | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রুপান্তর | ১-ফেজ | ০.০৬  | ৪৩৭৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৯২ | ভোলা | ভোলা পবিস | লালমোহন | রমাগঞ্জ    | রমাগঞ্জ জি হক সং প্রাঃ বিঃ             | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রুপান্তর | ১-ফেজ | ০.০৬০ | ৪৩৭৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৯৩ | ভোলা | ভোলা পবিস | লালমোহন | রমাগঞ্জ    | পঃ রায়চাঁদ সং প্রাঃ বিঃ               | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রুপান্তর | ১-ফেজ | ০.৩৬  | ৫৫১৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৯৪ | ভোলা | ভোলা পবিস | লালমোহন | রমাগঞ্জ    | দঃ রায়চাঁদ সং প্রাঃ বিঃ               | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রুপান্তর | ১-ফেজ | ০.১২  | ৪৩৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৯৫ | ভোলা | ভোলা পবিস | লালমোহন | রমাগঞ্জ    | উঃ রমাগঞ্জ নয়া ভাইয়া সং প্রাঃ বিঃ    | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ |          | ১-ফেজ | ০     | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |
| ৯৬ | ভোলা | ভোলা পবিস | লালমোহন | রমাগঞ্জ    | রমাগঞ্জ উদয় চন্দ্র মাধ্যমিক বিদ্যালয় | ৪৮০০ | ৩৩৬০ | ৫৬    | ৩.০ | রুপান্তর | ১-ফেজ | ০.০৬  | ৫৮৮৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |
| ৯৭ | ভোলা | ভোলা পবিস | লালমোহন | রমাগঞ্জ    | রমাগঞ্জ স্কুল এন্ড কলেজ                | ৪৮০০ | ৩৩৬০ | ৫৬    | ৪.০ | রুপান্তর | ১-ফেজ | ০.০৬  | ৫৫৬৮৯১.০০ | ৪৮ | ১৫৮৫২৪৬ |
| ৯৮ | ভোলা | ভোলা পবিস | লালমোহন | লর্ডহাডিজ  | লর্ডহাডিজ ০২ নং সং প্রাঃ বিঃ           | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০ | রুপান্তর | ১-ফেজ | ০.০৬  | ৪৩৭৩৭৮.০০ | ৩২ | ১০৫১১৭৬ |

|     |      |           |         |            |  |      |      |       |        |          |       |      |           |    |           |
|-----|------|-----------|---------|------------|--|------|------|-------|--------|----------|-------|------|-----------|----|-----------|
| ৯৯  | ভোলা | ভোলা পবিস | লালমোহন | লর্ডহাডিজ  | মধ্য অনন্যদাপ্রসাদ সং প্রাঃ বিঃ                  | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১.০    |          | ১-ফেজ | ০    | ৩৭৫৩৭৮.০০ | ৩২ | ১০৫১১৭৬   |
| ১০০ | ভোলা | ভোলা পবিস | লালমোহন | পৌরসভা     | উপজেলা স্বাস্থ্য কমপ্লেক্স                       | ৫০০০ | ৩৫০০ | ৫০    | ১৯.০   |          | ৩-ফেজ | ০    | ৫২৬৮৯১.০০ | ৫০ | ১৫৯৩৭৪০   |
| ১০১ | ভোলা | ভোলা পবিস | লালমোহন | পৌরসভা     | উপজেলা পরিবার পরিকল্পনা কার্যালয়                | ১৪৯৫ | ১০৪৭ | ১৪    | ২.০    |          | ১-ফেজ | ০    | ৩৩৭৬১১.০০ | ১৪ | ৫৬৭৭৪৪    |
| ১০২ | ভোলা | ভোলা পবিস | লালমোহন | পৌরসভা     | মা ও শিশু কল্যান কেন্দ্র                         | ২৪৭৫ | ১৭৩৩ | ২৪    | ৬.০    |          | ১-ফেজ | ০    | ৩৩৭৬১১.০০ | ২৪ | ৮৫৬৪৩২    |
| ১০৩ | ভোলা | ভোলা পবিস | লালমোহন | কালমা      | চরপঞ্জীরহাট (কালমা) ইউনিয়ন উপ স্বাস্থ্য কেন্দ্র | ২২৭৫ | ১৫৯৩ | ২২    | ৩.০    |          | ১-ফেজ | ০    | ৩৩৭৬১১.০০ | ২২ | ৭৫৫৬৩৮    |
| ১০৪ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | মঞ্জলশিকদার ইউনিয়ন উপ স্বাস্থ্য কেন্দ্র         | ৩০০০ | ২১০০ | ৩০    | ৩.০    | রূপান্তর | ১-ফেজ | ১    | ৩৭৫৩৭৮.০০ | ৩০ | ৯৭৭৪৬৪    |
| ১০৫ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা     | ইউনিয়ন স্বাস্থ্য ও পরিবার কল্যান কেন্দ্র চরভূতা | ১৫০০ | ১০৫০ | ১৫    | ২.০    |          | ১-ফেজ | ০    | ৩৩৭৬১১.০০ | ১৫ | ৫৪২৯৮২    |
| ১০৬ | ভোলা | ভোলা পবিস | লালমোহন | বদরপুর     | ইউনিয়ন স্বাস্থ্য ও পরিবার কল্যান কেন্দ্র বদরপুর | ১৫০০ | ১০৫০ | ১৫    | ২.০    |          | ১-ফেজ | ০    | ৩৩৭৬১১.০০ | ১৫ | ৫৪২৯৮২    |
| ১০৭ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | দঃ ভেদুরিয়া সং প্রাঃ বিঃ                        | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১কিঃওঃ | রূপান্তর | ১-ফেজ | ০.১২ | ৪৩৫৩৭৮.০০ | ৩২ | ১,০৫১,১৭৬ |
| ১০৮ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | পূর্ব চরকালান্দীদ সঃ প্রাঃ বিদ্যালয়             | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১কিঃওঃ | রূপান্তর | ১-ফেজ | ০.১৮ | ৪৬৫৩৭৮    | ৩২ | ১,০৫১,১৭৬ |
| ১০৯ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | দঃ পূর্ব চরমোল্লাজি সং প্রাঃ বিঃ                 | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১কিঃওঃ | রূপান্তর | ১-ফেজ | ০.৩০ | ৫৫৫,৩৭৮   | ৩২ | ১,০৫১,১৭৬ |
| ১১০ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | চর মোল্লাজি নিম্ন মাধ্যমিক বিদ্যালয়             | ৪৮০০ | ৩৩৬০ | ৫৬    | ৪কিঃওঃ | নতুন     | ১-ফেজ | ০.০৬ | ৫৮৮৮৯১    | ৪৮ | ১৫৮৫২৪৬   |
| ১১১ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | কামারের হাট সং প্রাঃ বিঃ                         | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১কিঃওঃ |          | ১-ফেজ | ০.০০ | ৩৭৫,৩৭৮   | ৩২ | ১,০৫১,১৭৬ |
| ১১২ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা     | দঃ চর মিয়াজী সং প্রাঃ বিঃ                       | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১কিঃওঃ | রূপান্তর | ১-ফেজ | ০.১৮ | ৪৬৫,৩৭৮   | ৩২ | ১,০৫১,১৭৬ |
| ১১৩ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা     | পূর্ব তারাগঞ্জ সং প্রাঃ বিঃ                      | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১কিঃওঃ | রূপান্তর | ১-ফেজ | ০.০৬ | ৪০৫,৩৭৮   | ৩২ | ১,০৫১,১৭৬ |
| ১১৪ | ভোলা | ভোলা পবিস | লালমোহন | চরভূতা     | চরভূতা ডিএম আলেমিয়া দাখিল মাদ্রাসা              | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১কিঃওঃ | রূপান্তর | ১-ফেজ | ০.১২ | ৪৩৫,৩৭৮   | ৩২ | ১,০৫১,১৭৬ |
| ১১৫ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | আজিজিয়া সং প্রাঃ বিঃ                            | ৩২০০ | ২২৪০ | ৩৭.৩৩ | ১কিঃওঃ | রূপান্তর | ১-ফেজ | ০.০৬ | ৪০৫,৩৭৮   | ৩২ | ১,০৫১,১৭৬ |

|     |      |           |         |            |                                  |        |        |       |        |          |       |      |             |      |           |  |
|-----|------|-----------|---------|------------|----------------------------------|--------|--------|-------|--------|----------|-------|------|-------------|------|-----------|--|
| ১১৬ | ভোলা | ভোলা পবিস | লালমোহন | ধলীগৌর নগর | খাদিজা খানম সঃ প্রাঃ বিঃ         | ৩২০০   | ২২৪০   | ৩৭.৩৩ | ১কিঃওঃ | রূপান্তর | ১-ফেজ | ০.৩৬ | ৫৮৭,৩৭৮     | ৩২   | ১,০৫১,১৭৬ |  |
| ১১৭ | ভোলা | ভোলা পবিস | লালমোহন | রমাগঞ্জ    | উত্তর রামগঞ্জ মাধ্যমিক বিদ্যালয় | ৪৮০০   | ৩৩৬০   | ৫৬    | ৪কিঃওঃ | রূপান্তর | ১-ফেজ | ০.০৬ | ৫৮৮,৮৯১     | ৪৮   | ১৫৮৫২৪৬   |  |
| ১১৮ | ভোলা | ভোলা পবিস | লালমোহন | চরউমেদ     | কচুয়াখালী সঃ প্রাঃ বিঃ          | ৩২০০   | ২২৪০   | ৩৭.৩৩ | ১কিঃওঃ | রূপান্তর | ১-ফেজ | ০.৩৬ | ৫৫১,৩৭৮     | ৩২   | ১,০৫১,১৭৬ |  |
| ১১৯ | ভোলা | ভোলা পবিস | লালমোহন | চরউমেদ     | মহিষখালী আশ্রাফিয়া স: প্রা:বিঃ  | ৩২০০   | ২২৪০   | ৩৭.৩৩ | ১কিঃওঃ | রূপান্তর | ১-ফেজ | ০.৩৬ | ৫৫৫৩৭৮      | ৩২   | ১,০৫১,১৭৬ |  |
|     |      |           |         |            |                                  | ৪১৩৮৪৫ | ২৮৮৯১৩ | ৪৭৮৪  |        |          |       |      | ৫৫৭৯৭৮০৬.০০ | ৪১৩৬ | ১৩৬৯৯১৩১৪ |  |

**Appendix- B: Site Visit Report Format**

Tenderers shall submit Site visit Report in the Tender Proposal following the below mentioned format:

| SL No   | Name and address of Govt. / govt. affiliated Schools / Colleges / Madrasas / Polytechnic Institutes/ Hospitals/ Medical Colleges/ Other Organization | Sanction load (KW) | Available Roof top Area for Solar System Installation (sq.ft) | Proposed Solar system capacity (KWp) | Roof Condition Suitable for Proposed Solar system during contract period (Yes / No) | Service drop modification required (YES/NO) | Service Drop Information (if yes) |            | Replacement of existing meter with Net meter required (YES/NO) | Solar Power required to be evacuated at |                               |
|---|--|--------------------|---|--------------------------------------|---|---|-----------------------------------|------------|--|---|-------------------------------|
|   |  |                    |   |                                      |   |   | Cros Section Area (sq,mm)         | Length (m) |  | [ UTILITY NAME ] 's LT network (YES/NO) | Customer's Load side (YES/NO) |
|   |  |                    |   |                                      |   |   |                                   |            |  |   |                               |
|   |  |                    |   |                                      |   |   |                                   |            |  |   |                               |
|   |  |                    |   |                                      |   |   |                                   |            |  |   |                               |
|   |  |                    |   |                                      |   |   |                                   |            |  |   |                               |
| <b>Total Proposed Solar System Capacity (KWp)</b> |  |                    |   |                                      |   |   |                                   |            |  |   |                               |

## Appendix- C: List of meter parameters and OBIS Code

## Single Phase Meter:

## Justified Short Code

There are short code table, through this short code, user can get the information of meter.

| Short code | Data meaning  | Short code | Data meaning  |
|------------|---|------------|---|
| Any code   | Cancel audible alarm  | 00         | Active emergency overdraft                          |
| 800        | Total positive active energy  | 801        | Meter remaining balance                             |
| 802        | Current date  | 803        | Current time  |
| 804        | Meter serial No.  | 805        | SGC No.   |
| 806        | Reason of relay operation   | 807        | Meter status words                                  |
| 808        | Total instantaneous power   | 809        | Tariff index number                                 |
| 810        | Emergency Overdraft limit   | 811        | Active emergency overdraft                          |
| 813        | Total forward active energy for yesterday                                 | 814        | Total forward active energy for current month       |
| 815        | Recharge date for last time   | 816        | Recharge time for last time                         |
| 817        | Recharge amount for last time   | 818        | Log out return code                                 |
| 819        | Power outage No   | 820        | Total forward active energy for last month          |
| 821        | Total forward active energy for last 2nd month                            | 822        | Total forward active energy for last 3rd month      |
| 823        | Total forward active energy for last 4th month                            | 824        | Total forward active energy for last 5th month      |
| 825        | Total forward active energy for last 6th month                            | 830        | TOKEN code for last time recharging                 |
| 831        | TOKEN codes for last 2nd time recharging                                  | 832        | TOKEN codes for last 3rd time recharging            |
| 833        | TOKEN codes for last 4th time recharging                                  | 834        | TOKEN codes for last 5th time recharging            |
| 835        | TOKEN codes for last 6th time recharging                                  | 836        | TOKEN codes for last 7th time recharging            |
| 837        | TOKEN codes for last 8th time recharging                                  | 838        | TOKEN codes for last 9th time recharging            |
| 839        | TOKEN codes for last 10th time recharging                                 | 865        | Meter entering normal working mode                  |
| 866        | Measuring accuracy displays 3 decimals, automatically exit after 1 minute | 868        | Relay testing                                       |
| 869        | Maximum power (Load Limit)  | 870        | A phase voltage                                     |
| 871        | B phase voltage (not support in single phase meter)                       | 872        | C phase voltage (not support in single phase meter) |
| 873        | Key version No.   | 874        | A phase current                                     |
| 875        | B phase current   | 876        | C phase current (not support in single              |

| Short code | Data meaning  | Short code | Data meaning   |
|------------|---|------------|--|
|            |   |            | phase meter)   |
| 877        | A phase power   | 878        | B phase power  |
| 879        | C phase power (not support in single phase meter)     | 880        | Average value for daily power consumption  |
| 881        | Average value for monthly power consumption           | 886        | The price of current Tariff  |
| 887        | Current step tariff                                   | 888        | Recharging return code   |
| 889        | Current TOKEN sequence No.                            | 890        | TOKEN rejected times   |
| 891        | TOKEN accepted times                                  | 892        | Relay connection times   |
| 893        | Relay disconnection times                             | 894        | Max. overdraft amount under friendly mode  |
| 895        | Allowed using days under friendly mode                | 896        | Already used days under friendly mode  |
| 897        | Start time of friendly hour                           | 898        | End time of friendly hour  |
| 899        | Weekend   | 900        | The status of friendly mode<br>1 : uuworkday: No-friendly mode or friendly times is run out<br>2 : F-Hour: Friendly hour<br>3 : uueekend : weekend<br>4 : holiday: holiday<br>5 : EnnErg: emergency mode<br>6 : SpEciAL: weekend or friendly day is finished but does not arrival next day 10 o' clock |
| 901        | kWh of Step 1/ kWh of Tariff 1                        | 902        | kWh of Step 2/ kWh of Tariff 2   |
| 903        | kWh of Step 3/ kWh of Tariff 3                        | 904        | kWh of Step 4/ kWh of Tariff 4   |
| 905        | kWh of Step 5/ kWh of Tariff 5                        | 906        | kWh of Step 6/ kWh of Tariff 6   |
| 907        | kWh of Step 7/ kWh of Tariff 7                        | 908        | rate of Step 1/ price of Tariff 1  |
| 909        | rate of Step 2/ price of Tariff 2                     | 910        | rate of Step 3/ price of Tariff 3  |
| 911        | rate of Step 4/ price of Tariff 4                     | 912        | rate of Step 5/ price of Tariff 5  |
| 913        | rate of Step 6/ price of Tariff 6                     | 914        | rate of Step 7/ price of Tariff 7  |
| 915        | rate of Step 8/ price of Tariff 8                     | 916        | The average PF of last month   |
| 917        | Level 1 alarm of balance low                          | 918        | Level 2 alarm of balance low   |
| 919        | Level 3 alarm of balance low                          | 920        | Special step status word   |
| 921        | Already used times of weekend                         | 922        | Consumption amount of current month  |
| 923        | Consumption amount of last month                      | 924        | Consumption amount of last 2nd month   |
| 925        | Consumption amount of last 3rd month                  | 926        | Consumption amount of last 4th month   |
| 927        | Consumption amount of last 5th month                  | 928        | Consumption amount of last 6th month   |
| 930 *      | PFC of last month (not support in single phase meter) | 931        | PFC of last 2nd month (not support in single phase meter)  |

| Short code | Data meaning  | Short code | Data meaning  |
|------------|---|------------|---|
| 932        | PFC of last 3rd month (not support in single phase meter) | 933        | PFC of last 4th month (not support in single phase meter) |
| 934        | PFC of last 5th month (not support in single phase meter) | 935        | PFC of last 6th month (not support in single phase meter) |
| 940        | Reactive energy of last month                             | 941        | Reactive energy of last 2nd month                         |
| 942        | Reactive energy of last 3rd month                         | 943        | Reactive energy of last 4th month                         |
| 944        | Reactive energy of last 5th month                         | 945        | Reactive energy of last 6th month                         |
| 952        | Prepay Mode or Post-pay mode indication                   | 953        | Neutral Current   |
| 954        | Total tariff 1 active energy (KWh)                        | 955        | Total tariff 2 active energy(KWh)                         |
| 956        | Total tariff 3 active energy(KWh)                         | 957        | Total tariff 4 active energy(KWh)                         |
| 958        | Total tariff 5 active energy(KWh)                         | 959        | Total tariff 6 active energy(KWh)                         |
| 960        | Total tariff 7 active energy(KWh)                         | 961        | Total tariff 8 active energy(KWh)                         |
| 962        | Positive tariff 1 reactive energy                         | 963        | Positive tariff 1 reactive energy                         |
| 964        | Positive tariff 3 reactive energy                         | 965        | Positive tariff 3 reactive energy                         |
| 966        | Total positive reactive energy                            | 970        | Negative tariff 1 reactive energy                         |
| 971        | Negative tariff 2 reactive energy                         | 972        | Negative tariff 3 reactive energy                         |
| 973        | Negative tariff 4 reactive energy                         | 974        | Total negative reactive energy                            |
| 981        | Emergency overdraft balance                               | 985        | Total consumption credit                                  |
| 986        | Remaining energy (estimated value)                        | 998        | Average power factor of current month                     |
| 420        | The opening terminal cover time for last time             | 421        | The opening terminal cover date for last time             |

### Standard OBIS Information

| NO. | Data Name                             | Standard OBIS      | Standard CIM                              |
|-----|---------------------------------------|--------------------|---|
| 1   | A phase Current                       | 3#1.0.31.7.0.255#2 | 0.0.0.12.0.1.4.0.0.0.0.0.0.128.0.5.0      |
| 2   | A phase Power Factor                  | 3#1.0.33.7.0.255#2 | 0.0.0.12.19.1.37.0.0.0.0.0.0.0.224.3.38.0 |
| 3   | A phase Voltage                       | 3#1.0.32.7.0.255#2 | 0.0.0.12.0.1.54.0.0.0.0.0.0.128.0.29.0    |
| 4   | Active energy ( +A - -A ) Net tariff1 | 3#1.0.16.8.1.255#2 | 0.26.0.1.4.1.12.0.0.0.0.1.0.0.224.3.72.0  |
| 5   | Active energy ( +A - -A ) Net tariff2 | 3#1.0.16.8.2.255#2 | 0.26.0.1.4.1.12.0.0.0.0.2.0.0.224.3.72.0  |
| 6   | Active energy ( +A - -A ) Net tariff3 | 3#1.0.16.8.3.255#2 | 0.26.0.1.4.1.12.0.0.0.0.3.0.0.224.3.72.0  |
| 7   | Active energy ( +A - -A ) Net tariff4 | 3#1.0.16.8.4.255#2 | 0.26.0.1.4.1.12.0.0.0.0.4.0.0.224.3.72.0  |

| NO. | Data Name                                     | Standard OBIS      | Standard CIM                               |
|-----|---|--------------------|--|
| 8   | Active energy ( +A - -A )<br>Net total        | 3#1.0.16.8.0.255#2 | 0.26.0.1.4.1.12.0.0.0.0.0.0.0.0.224.3.72.0 |
| 9   | Active energy ( +A + -A )<br>Combined tariff1 | 3#1.0.15.8.1.255#2 | 0.26.0.1.20.1.12.0.0.0.0.1.0.0.224.3.72.0  |
| 10  | Active energy ( +A + -A )<br>Combined tariff2 | 3#1.0.15.8.2.255#2 | 0.26.0.1.20.1.12.0.0.0.0.2.0.0.224.3.72.0  |
| 11  | Active energy ( +A + -A )<br>Combined tariff3 | 3#1.0.15.8.3.255#2 | 0.26.0.1.20.1.12.0.0.0.0.3.0.0.224.3.72.0  |
| 12  | Active energy ( +A + -A )<br>Combined tariff4 | 3#1.0.15.8.4.255#2 | 0.26.0.1.20.1.12.0.0.0.0.4.0.0.224.3.72.0  |
| 13  | Active energy ( +A + -A )<br>Combined total   | 3#1.0.15.8.0.255#2 | 0.26.0.1.20.1.12.0.0.0.0.0.0.0.224.3.72.0  |
| 14  | Active energy export (-A)                     | 3#1.0.2.8.0.255#2  | 0.26.0.1.19.1.12.0.0.0.0.0.0.0.224.3.72.0  |
| 15  | Active energy export (-A)<br>rate1            | 3#1.0.2.8.1.255#2  | 0.26.0.1.19.1.12.0.0.0.0.1.0.0.224.3.72.0  |
| 16  | Active energy export (-A)<br>rate2            | 3#1.0.2.8.2.255#2  | 0.26.0.1.19.1.12.0.0.0.0.2.0.0.224.3.72.0  |
| 17  | Active energy export (-A)<br>rate3            | 3#1.0.2.8.3.255#2  | 0.26.0.1.19.1.12.0.0.0.0.3.0.0.224.3.72.0  |
| 18  | Active energy export (-A)<br>rate4            | 3#1.0.2.8.4.255#2  | 0.26.0.1.19.1.12.0.0.0.0.4.0.0.224.3.72.0  |
| 19  | Active energy export (-A)<br>rate5            | 3#1.0.2.8.5.255#2  | 0.26.0.1.19.1.12.0.0.0.0.5.0.0.224.3.72.0  |
| 20  | Active energy export (-A)<br>rate6            | 3#1.0.2.8.6.255#2  | 0.26.0.1.19.1.12.0.0.0.0.6.0.0.224.3.72.0  |
| 21  | Active energy export (-A)<br>rate7            | 3#1.0.2.8.7.255#2  | 0.26.0.1.19.1.12.0.0.0.0.7.0.0.224.3.72.0  |
| 22  | Active energy export (-A)<br>rate8            | 3#1.0.2.8.8.255#2  | 0.26.0.1.19.1.12.0.0.0.0.8.0.0.224.3.72.0  |
| 23  | Active energy import<br>(+A)                  | 3#1.0.1.8.0.255#2  | 0.26.0.1.1.1.12.0.0.0.0.0.0.0.224.3.72.0   |
| 24  | Active energy import<br>(+A) rate1            | 3#1.0.1.8.1.255#2  | 0.26.0.1.1.1.12.0.0.0.0.1.0.0.224.3.72.0   |
| 25  | Active energy import<br>(+A) rate2            | 3#1.0.1.8.2.255#2  | 0.26.0.1.1.1.12.0.0.0.0.2.0.0.224.3.72.0   |
| 26  | Active energy import<br>(+A) rate3            | 3#1.0.1.8.3.255#2  | 0.26.0.1.1.1.12.0.0.0.0.3.0.0.224.3.72.0   |
| 27  | Active energy import<br>(+A) rate4            | 3#1.0.1.8.4.255#2  | 0.26.0.1.1.1.12.0.0.0.0.4.0.0.224.3.72.0   |
| 28  | Active energy import<br>(+A) rate5            | 3#1.0.1.8.5.255#2  | 0.26.0.1.1.1.12.0.0.0.0.5.0.0.224.3.72.0   |
| 29  | Active energy import<br>(+A) rate6            | 3#1.0.1.8.6.255#2  | 0.26.0.1.1.1.12.0.0.0.0.6.0.0.224.3.72.0   |

*Procurement of Solar Energy from 4.136 MWp Rooftop Solar System in Bhola Palli Bidyut Samity (LALMOHON UPAZILLA) Area on BOO (Build, Own, Operate) Basis following OpEx Model.*

| NO. | Data Name                              | Standard OBIS       | Standard CIM                             |
|-----|--|---------------------|--|
| 30  | Active energy import (+A) rate7        | 3#1.0.1.8.7.255#2   | 0.26.0.1.1.1.12.0.0.0.0.7.0.0.224.3.72.0 |
| 31  | Active energy import (+A) rate8        | 3#1.0.1.8.8.255#2   | 0.26.0.1.1.1.12.0.0.0.0.8.0.0.224.3.72.0 |
| 32  | Active MD (-)                          | 4#1.0.2.6.0.255#2   | 0.8.2.6.19.1.8.0.0.0.0.0.0.0.224.3.38.0  |
| 33  | Active MD (-) tariff1                  | 4#1.0.2.6.1.255#2   | 0.8.2.6.19.1.8.0.0.0.0.1.0.0.224.3.38.0  |
| 34  | Active MD (-) tariff2                  | 4#1.0.2.6.2.255#2   | 0.8.2.6.19.1.8.0.0.0.0.2.0.0.224.3.38.0  |
| 35  | Active MD (-) tariff3                  | 4#1.0.2.6.3.255#2   | 0.8.2.6.19.1.8.0.0.0.0.3.0.0.224.3.38.0  |
| 36  | Active MD (-) tariff4                  | 4#1.0.2.6.4.255#2   | 0.8.2.6.19.1.8.0.0.0.0.4.0.0.224.3.38.0  |
| 37  | Active MD ( QI+QIV + QII+QIII)         | 4#1.0.15.6.0.255#2  | 0.8.0.6.20.1.8.0.0.0.0.0.0.0.224.3.38.0  |
| 38  | Active MD ( QI+QIV + QII+QIII) tariff1 | 4#1.0.15.6.1.255#2  | 0.8.0.6.20.1.8.0.0.0.0.1.0.0.224.3.38.0  |
| 39  | Active MD ( QI+QIV + QII+QIII) tariff2 | 4#1.0.15.6.2.255#2  | 0.8.0.6.20.1.8.0.0.0.0.2.0.0.224.3.38.0  |
| 40  | Active MD ( QI+QIV + QII+QIII) tariff3 | 4#1.0.15.6.3.255#2  | 0.8.0.6.20.1.8.0.0.0.0.3.0.0.224.3.38.0  |
| 41  | Active MD ( QI+QIV + QII+QIII) tariff4 | 4#1.0.15.6.4.255#2  | 0.8.0.6.20.1.8.0.0.0.0.4.0.0.224.3.38.0  |
| 42  | Active MD (+)                          | 4#1.0.1.6.0.255#2   | 0.8.0.6.1.1.8.0.0.0.0.0.0.0.224.3.38.0   |
| 43  | Active MD (+) tariff1                  | 4#1.0.1.6.1.255#2   | 0.8.0.6.1.1.8.0.0.0.0.1.0.0.224.3.38.0   |
| 44  | Active MD (+) tariff2                  | 4#1.0.1.6.2.255#2   | 0.8.0.6.1.1.8.0.0.0.0.2.0.0.224.3.38.0   |
| 45  | Active MD (+) tariff3                  | 4#1.0.1.6.3.255#2   | 0.8.0.6.1.1.8.0.0.0.0.3.0.0.224.3.38.0   |
| 46  | Active MD (+) tariff4                  | 4#1.0.1.6.4.255#2   | 0.8.0.6.1.1.8.0.0.0.0.4.0.0.224.3.38.0   |
| 47  | Tariff 5 Active MD(+)                  | 4#1.0.1.6.5.255#2   | 0.8.0.6.1.1.8.0.0.0.0.5.0.0.224.3.38.0   |
| 48  | Tariff 6 Active MD(+)                  | 4#1.0.1.6.6.255#2   | 0.8.0.6.1.1.8.0.0.0.0.6.0.0.224.3.38.0   |
| 49  | Tariff 7 Active MD(+)                  | 4#1.0.1.6.7.255#2   | 0.8.0.6.1.1.8.0.0.0.0.7.0.0.224.0.1.0    |
| 50  | Tariff 8 Active MD(+)                  | 4#1.0.1.6.8.255#2   | 0.8.0.6.1.1.8.0.0.0.0.8.0.0.224.3.38.0   |
| 51  | Angle of U(L1) - U(L2)                 | 3#1.0.81.7.10.255#2 | 0.0.0.1.0.1.55.0.0.0.0.0.0.0.224.0.1.0   |
| 52  | Angle of U(L1) - U(L3)                 | 3#1.0.81.7.20.255#2 | 0.0.0.1.0.1.55.0.0.0.0.1.0.0.224.0.1.0   |
| 53  | Apparent power+ (QI+QIV) , Phase A     | 3#1.0.29.7.0.255#2  | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.128.3.61.0 |
| 54  | Apparent power+ (QI+QIV) , Phase B     | 3#1.0.49.7.0.255#2  | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.64.3.61.0  |
| 55  | Apparent power+ (QI+QIV) , Phase C     | 3#1.0.69.7.0.255#2  | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.32.3.61.0  |
| 56  | B phase Current                        | 3#1.0.51.7.0.255#2  | 0.0.0.12.0.1.4.0.0.0.0.0.0.0.64.0.5.0    |

| NO. | Data Name  | Standard OBIS        | Standard CIM                              |
|-----|--|----------------------|---|
| 57  | B phase Power Factor                                   | 3#1.0.53.7.0.255#2   | 0.0.0.12.19.1.37.0.0.0.0.0.0.0.224.3.63.0 |
| 58  | B phase Voltage  | 3#1.0.52.7.0.255#2   | 0.0.0.12.0.1.54.0.0.0.0.0.0.0.64.0.29.0   |
| 59  | C phase Current  | 3#1.0.71.7.0.255#2   | 0.0.0.12.0.1.4.0.0.0.0.0.0.0.32.0.5.0     |
| 60  | C phase Power Factor                                   | 3#1.0.73.7.0.255#2   | 0.0.0.12.0.1.38.0.0.0.0.0.0.0.32.0.65.0   |
| 61  | C phase Voltage  | 3#1.0.72.7.0.255#2   | 0.0.0.12.0.1.54.0.0.0.0.0.0.0.32.0.29.0   |
| 62  | Current , neutral                                      | 3#1.0.91.7.0.255#2   | 0.0.0.1.0.1.4.0.0.0.0.0.0.0.224.0.5.0     |
| 63  | Daily Freezing For Energy                              | 7#0.0.98.2.0.255#2   | 11.26.0.1.0.1.12.0.0.0.0.0.0.0.224.3.72.0 |
| 64  | Daily Freezing For Total Energy                        | 7#0.0.98.5.128.255#2 | 11.0.0.1.0.1.12.0.0.0.0.0.0.0.224.3.72.0  |
| 65  | Daily Freezing Prepaid Information                     | 7#0.0.99.2.0.255#2   | 11.26.0.1.0.1.12.0.0.0.0.1.0.0.224.3.72.0 |
| 66  | Daily Frozen Forward Active Energy Block               | 7#0.0.98.1.128.255#2 | 11.26.0.1.0.1.12.0.0.0.0.2.0.0.224.3.72.0 |
| 67  | Instantaneous active export power (-A)                 | 3#1.0.2.7.0.255#2    | 0.0.0.12.19.1.37.0.0.0.0.0.0.0.224.3.38.0 |
| 68  | Instantaneous active import power (+A)                 | 3#1.0.1.7.0.255#2    | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.224.3.38.0  |
| 69  | Instantaneous active import power (+A) L1              | 3#1.0.21.7.0.255#2   | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.128.3.38.0  |
| 70  | Instantaneous active import power (+A) L2              | 3#1.0.41.7.0.255#2   | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.64.3.38.0   |
| 71  | Instantaneous active import power (+A) L3              | 3#1.0.61.7.0.255#2   | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.32.3.38.0   |
| 72  | Instantaneous net frequency                            | 3#1.0.14.7.0.255#2   | 0.0.0.12.0.1.15.0.0.0.0.0.0.0.224.0.33.0  |
| 73  | Instantaneous Power factor (+A/+VA)                    | 3#1.0.13.7.0.255#2   | 0.0.0.12.0.1.38.0.0.0.0.0.0.0.0.0.65.0    |
| 74  | Instantaneous reactive export power (-R)               | 3#1.0.4.7.0.255#2    | 0.0.0.12.19.1.37.0.0.0.0.0.0.0.224.3.63.0 |
| 75  | Instantaneous reactive import power (+R)               | 3#1.0.3.7.0.255#2    | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.224.3.63.0  |
| 76  | Meter Log Off Return Token                             | 1.0.129.129.11.255   | 0.0.0.12.0.0.0.0.0.0.0.128.0.211.0        |
| 77  | Monthly Freezing For Active MD Import Register Package | 7#0.0.98.7.128.255#2 | 13.0.0.1.0.1.8.0.0.0.0.0.0.0.224.3.72.0   |
| 78  | Monthly Freezing For Energy                            | 7#0.0.98.1.0.255#2   | 13.0.0.1.0.1.12.0.0.0.0.1.0.0.224.3.72.0  |

| NO. | Data Name                                  | Standard OBIS        | Standard CIM                              |
|-----|--|----------------------|---|
| 79  | Monthly Freezing For Total Energy          | 7#0.0.98.6.128.255#2 | 13.0.0.1.0.1.12.0.0.0.0.5.0.0.224.3.72.0  |
| 80  | Monthly Freezing Prepaid Information       | 7#0.0.99.1.0.255#2   | 13.0.0.1.0.1.12.0.0.0.0.2.0.0.224.3.72.0  |
| 81  | Monthly Frozen Forward Active Energy Block | 7#0.0.98.3.128.255#2 | 13.0.0.1.0.1.12.0.0.0.0.3.0.0.224.3.72.0  |
| 82  | Monthly Frozen Special Block               | 7#0.0.98.9.0.255#2   | 13.0.0.1.0.1.12.0.0.0.0.4.0.0.224.0.72.0  |
| 83  | Reactive energy export (-R)                | 3#1.0.4.8.0.255#2    | 0.26.0.1.13.1.12.0.0.0.0.0.0.0.224.3.73.0 |
| 84  | Reactive energy export (-R) rate1          | 3#1.0.4.8.1.255#2    | 0.26.0.1.13.1.12.0.0.0.0.1.0.0.224.3.73.0 |
| 85  | Reactive energy export (-R) rate2          | 3#1.0.4.8.2.255#2    | 0.26.0.1.13.1.12.0.0.0.0.2.0.0.224.3.73.0 |
| 86  | Reactive energy export (-R) rate3          | 3#1.0.4.8.3.255#2    | 0.26.0.1.13.1.12.0.0.0.0.3.0.0.224.3.73.0 |
| 87  | Reactive energy export (-R) rate4          | 3#1.0.4.8.4.255#2    | 0.26.0.1.13.1.12.0.0.0.0.4.0.0.224.3.73.0 |
| 88  | Reactive energy export (-R) rate5          | 3#1.0.4.8.5.255#2    | 0.26.0.1.13.1.12.0.0.0.0.5.0.0.224.3.73.0 |
| 89  | Reactive energy export (-R) rate6          | 3#1.0.4.8.6.255#2    | 0.26.0.1.13.1.12.0.0.0.0.6.0.0.224.3.73.0 |
| 90  | Reactive energy export (-R) rate7          | 3#1.0.4.8.7.255#2    | 0.26.0.1.13.1.12.0.0.0.0.7.0.0.224.3.73.0 |
| 91  | Reactive energy export (-R) rate8          | 3#1.0.4.8.8.255#2    | 0.26.0.1.13.1.12.0.0.0.0.8.0.0.224.3.73.0 |
| 92  | Reactive energy import (+R)                | 3#1.0.3.8.0.255#2    | 0.26.0.1.5.1.12.0.0.0.0.0.0.0.224.3.73.0  |
| 93  | Reactive energy import (+R) rate1          | 3#1.0.3.8.1.255#2    | 0.26.0.1.1.1.12.0.0.0.0.1.0.0.224.3.73.0  |
| 94  | Reactive energy import (+R) rate2          | 3#1.0.3.8.2.255#2    | 0.26.0.1.1.1.12.0.0.0.0.2.0.0.224.3.73.0  |
| 95  | Reactive energy import (+R) rate3          | 3#1.0.3.8.3.255#2    | 0.26.0.1.1.1.12.0.0.0.0.3.0.0.224.3.73.0  |
| 96  | Reactive energy import (+R) rate4          | 3#1.0.3.8.4.255#2    | 0.26.0.1.1.1.12.0.0.0.0.4.0.0.224.3.73.0  |
| 97  | Reactive energy import (+R) rate5          | 3#1.0.3.8.5.255#2    | 0.26.0.1.1.1.12.0.0.0.0.5.0.0.224.3.73.0  |
| 98  | Reactive energy import (+R) rate6          | 3#1.0.3.8.6.255#2    | 0.26.0.1.1.1.12.0.0.0.0.6.0.0.224.3.73.0  |
| 99  | Reactive energy import (+R) rate7          | 3#1.0.3.8.7.255#2    | 0.26.0.1.1.1.12.0.0.0.0.7.0.0.224.3.73.0  |
| 100 | Reactive energy import (+R) rate8          | 3#1.0.3.8.8.255#2    | 0.26.0.1.1.1.12.0.0.0.0.8.0.0.224.3.73.0  |

| NO. | Data Name                              | Standard OBIS         | Standard CIM                               |
|-----|--|-----------------------|--|
| 101 | Reactive MD (-)                        | 4#1.0.4.6.0.255#2     | 0.8.0.6.19.1.8.0.0.0.0.0.0.0.224.3.63.0    |
| 102 | Reactive MD (-)tariff1                 | 4#1.0.4.6.1.255#2     | 0.8.0.6.19.1.8.0.0.0.0.1.0.0.224.3.63.0    |
| 103 | Reactive MD (-)tariff2                 | 4#1.0.4.6.2.255#2     | 0.8.0.6.19.1.8.0.0.0.0.2.0.0.224.3.63.0    |
| 104 | Reactive MD (-)tariff3                 | 4#1.0.4.6.3.255#2     | 0.8.0.6.19.1.8.0.0.0.0.3.0.0.224.3.63.0    |
| 105 | Reactive MD (-)tariff4                 | 4#1.0.4.6.4.255#2     | 0.8.0.6.19.1.8.0.0.0.0.4.0.0.224.3.63.0    |
| 106 | Reactive MD (+)                        | 4#1.0.3.6.0.255#2     | 0.8.0.6.1.1.8.0.0.0.0.0.0.0.224.3.63.0     |
| 107 | Reactive MD (+) tariff1                | 4#1.0.3.6.1.255#2     | 0.8.0.6.1.1.8.0.0.0.0.1.0.0.224.3.63.0     |
| 108 | Reactive MD (+) tariff2                | 4#1.0.3.6.2.255#2     | 0.8.0.6.1.1.8.0.0.0.0.2.0.0.224.3.63.0     |
| 109 | Reactive MD (+) tariff3                | 4#1.0.3.6.3.255#2     | 0.8.0.6.1.1.8.0.0.0.0.3.0.0.224.3.63.0     |
| 110 | Reactive MD (+) tariff4                | 4#1.0.3.6.4.255#2     | 0.8.0.6.1.1.8.0.0.0.0.4.0.0.224.3.63.0     |
| 111 | Reactive power(+), Phase A             | 3#1.0.23.7.0.255#2    | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.0.128.3.63.0 |
| 112 | Reactive power(+), Phase B             | 3#1.0.43.7.0.255#2    | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.0.64.3.63.0  |
| 113 | Reactive power(+), Phase C             | 3#1.0.63.7.0.255#2    | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.0.32.3.63.0  |
| 114 | Relay Control Mode                     | 70#0.0.96.3.10.255#4  | 0.0.0.12.0.0.0.0.0.0.0.0.5.0.211.0         |
| 115 | Relay Control Status                   | 70#0.0.96.3.10.255#3  | 0.0.0.12.0.0.0.0.0.0.0.0.4.0.211.0         |
| 116 | Relay Output Status                    | 70#0.0.96.3.10.255#2  | 0.0.0.12.0.0.0.0.0.0.0.0.3.0.211.0         |
| 117 | Remaining balance                      | 3#1.0.140.129.0.255#2 | 0.0.0.12.0.0.0.0.1.0.0.0.0.0.0             |
| 118 | Tariff 1 Active billing energy+        | 3#1.0.1.9.1.255#2     | 13.0.0.1.1.1.12.0.0.0.0.1.0.0.224.3.72.0   |
| 119 | Tariff 1 Active MD(-) occurring time   | 4#1.0.2.6.1.255#5     | 0.8.0.6.19.1.7.0.0.0.0.1.0.0.224.0.1.0     |
| 120 | Tariff 1 Active MD(+) occurring time   | 4#1.0.1.6.1.255#5     | 0.8.0.6.1.1.7.0.0.0.0.1.0.0.224.0.1.0      |
| 121 | Tariff 1 apparent energy-              | 3#1.0.10.8.1.255#2    | 0.0.0.1.19.1.12.0.0.0.0.1.0.0.224.3.71.0   |
| 122 | Tariff 1 apparent energy+              | 3#1.0.9.8.1.255#2     | 0.0.0.1.1.1.12.0.0.0.0.1.0.0.224.3.71.0    |
| 123 | Tariff 1 apparent MD(-)                | 4#1.0.10.6.1.255#2    | 0.8.0.6.19.1.8.0.0.0.0.1.0.0.224.0.61.0    |
| 124 | Tariff 1 apparent MD(-) occurring time | 4#1.0.10.6.1.255#5    | 0.8.0.6.19.1.7.0.0.0.0.1.0.0.224.0.1.0     |
| 125 | Tariff 1 apparent MD(+)                | 4#1.0.9.6.1.255#2     | 0.8.0.6.1.1.8.0.0.0.0.1.0.0.224.0.61.0     |
| 126 | Tariff 1 apparent MD(+) occurring time | 4#1.0.9.6.1.255#5     | 0.8.0.6.1.1.7.0.0.0.0.1.0.0.224.0.1.0      |
| 127 | Tariff 1 reactive billing energy+      | 3#1.0.3.9.1.255#2     | 13.0.0.1.1.1.12.0.0.0.0.1.0.0.224.3.73.0   |
| 128 | Tariff 1 reactive MD(-) occurring time | 4#1.0.4.6.1.255#5     | 0.8.0.6.19.1.7.0.0.0.0.1.0.0.224.0.1.0     |
| 129 | Tariff 1 reactive MD(+) occurring time | 4#1.0.3.6.1.255#5     | 0.8.0.6.1.1.7.0.0.0.0.1.0.0.224.0.61.0     |

| NO. | Data Name                              | Standard OBIS      | Standard CIM                             |
|-----|--|--------------------|--|
| 130 | Tariff 2 Active billing energy+        | 3#1.0.1.9.2.255#2  | 13.0.0.1.1.1.12.0.0.0.0.2.0.0.224.3.72.0 |
| 131 | Tariff 2 Active MD(-) occurring time   | 4#1.0.2.6.2.255#5  | 0.8.0.6.19.1.7.0.0.0.0.2.0.0.224.0.1.0   |
| 132 | Tariff 2 Active MD(+) occurring time   | 4#1.0.1.6.2.255#5  | 0.8.0.6.1.1.7.0.0.0.0.2.0.0.224.0.1.0    |
| 133 | Tariff 2 apparent energy-              | 3#1.0.10.8.2.255#2 | 0.0.0.1.19.1.12.0.0.0.0.2.0.0.224.3.71.0 |
| 134 | Tariff 2 apparent energy+              | 3#1.0.9.8.2.255#2  | 0.0.0.1.1.1.12.0.0.0.0.2.0.0.224.3.71.0  |
| 135 | Tariff 2 apparent MD(-)                | 4#1.0.10.6.2.255#2 | 0.8.0.6.19.1.8.0.0.0.0.2.0.0.224.0.61.0  |
| 136 | Tariff 2 apparent MD(-) occurring time | 4#1.0.10.6.2.255#5 | 0.8.0.6.19.1.7.0.0.0.0.2.0.0.224.0.1.0   |
| 137 | Tariff 2 apparent MD(+)                | 4#1.0.9.6.2.255#2  | 0.8.0.6.1.1.8.0.0.0.0.2.0.0.224.0.61.0   |
| 138 | Tariff 2 apparent MD(+) occurring time | 4#1.0.9.6.2.255#5  | 0.8.0.6.1.1.7.0.0.0.0.2.0.0.224.0.1.0    |
| 139 | Tariff 2 reactive billing energy+      | 3#1.0.3.9.2.255#2  | 13.0.0.1.1.1.12.0.0.0.0.2.0.0.224.3.73.0 |
| 140 | Tariff 2 reactive MD(-) occurring time | 4#1.0.4.6.2.255#5  | 0.8.0.6.19.1.7.0.0.0.0.2.0.0.224.0.1.0   |
| 141 | Tariff 2 reactive MD(+) occurring time | 4#1.0.3.6.2.255#5  | 0.8.0.6.1.1.7.0.0.0.0.2.0.0.224.0.61.0   |
| 142 | Tariff 3 Active billing energy+        | 3#1.0.1.9.3.255#2  | 13.0.0.1.1.1.12.0.0.0.0.3.0.0.224.3.72.0 |
| 143 | Tariff 3 Active MD(-) occurring time   | 4#1.0.2.6.3.255#5  | 0.8.0.6.19.1.7.0.0.0.0.3.0.0.224.0.1.0   |
| 144 | Tariff 3 Active MD(+) occurring time   | 4#1.0.1.6.3.255#5  | 0.8.0.6.1.1.7.0.0.0.0.3.0.0.224.0.1.0    |
| 145 | Tariff 3 apparent energy-              | 3#1.0.10.8.3.255#2 | 0.0.0.1.19.1.12.0.0.0.0.3.0.0.224.3.71.0 |
| 146 | Tariff 3 apparent energy+              | 3#1.0.9.8.3.255#2  | 0.0.0.1.1.1.12.0.0.0.0.3.0.0.224.3.71.0  |
| 147 | Tariff 3 apparent MD(-)                | 4#1.0.10.6.3.255#2 | 0.8.0.6.19.1.8.0.0.0.0.3.0.0.224.0.61.0  |
| 148 | Tariff 3 apparent MD(-) occurring time | 4#1.0.10.6.3.255#5 | 0.8.0.6.19.1.7.0.0.0.0.3.0.0.224.0.1.0   |
| 149 | Tariff 3 apparent MD(+)                | 4#1.0.9.6.3.255#2  | 0.8.0.6.1.1.8.0.0.0.0.3.0.0.224.0.61.0   |
| 150 | Tariff 3 apparent MD(+) occurring time | 4#1.0.9.6.3.255#5  | 0.8.0.6.1.1.7.0.0.0.0.3.0.0.224.0.1.0    |
| 151 | Tariff 3 reactive billing energy+      | 3#1.0.3.9.3.255#2  | 13.0.0.1.1.1.12.0.0.0.0.3.0.0.224.3.73.0 |
| 152 | Tariff 3 reactive MD(-) occurring time | 4#1.0.4.6.3.255#5  | 0.8.0.6.19.1.7.0.0.0.0.3.0.0.224.0.1.0   |
| 153 | Tariff 3 reactive MD(+) occurring time | 4#1.0.3.6.3.255#5  | 0.8.0.6.1.1.7.0.0.0.0.3.0.0.224.0.61.0   |
| 154 | Tariff 4 Active billing energy+        | 3#1.0.1.9.4.255#2  | 13.0.0.1.1.1.12.0.0.0.0.4.0.0.224.3.72.0 |

| NO. | Data Name                              | Standard OBIS       | Standard CIM                             |
|-----|--|---------------------|--|
| 155 | Tariff 4 Active MD(-) occurring time   | 4#1.0.2.6.4.255#5   | 0.8.0.6.19.1.7.0.0.0.0.4.0.0.224.0.1.0   |
| 156 | Tariff 4 Active MD(+) occurring time   | 4#1.0.1.6.4.255#5   | 0.8.0.6.1.1.7.0.0.0.0.4.0.0.224.0.1.0    |
| 157 | Tariff 4 apparent energy-              | 3#1.0.10.8.4.255#2  | 0.0.0.1.19.1.12.0.0.0.0.4.0.0.224.3.71.0 |
| 158 | Tariff 4 apparent energy+              | 3#1.0.9.8.4.255#2   | 0.0.0.1.1.1.12.0.0.0.0.4.0.0.224.3.71.0  |
| 159 | Tariff 4 apparent MD(-)                | 4#1.0.10.6.4.255#2  | 0.8.0.6.19.1.8.0.0.0.0.4.0.0.224.0.61.0  |
| 160 | Tariff 4 apparent MD(-) occurring time | 4#1.0.10.6.4.255#5  | 0.8.0.6.19.1.7.0.0.0.0.4.0.0.224.0.1.0   |
| 161 | Tariff 4 apparent MD(+)                | 4#1.0.9.6.4.255#2   | 0.8.0.6.1.1.8.0.0.0.0.4.0.0.224.0.61.0   |
| 162 | Tariff 4 apparent MD(+) occurring time | 4#1.0.9.6.4.255#5   | 0.8.0.6.1.1.7.0.0.0.0.4.0.0.224.0.1.0    |
| 163 | Tariff 4 reactive billing energy+      | 3#1.0.3.9.4.255#2   | 13.0.0.1.1.1.12.0.0.0.0.4.0.0.224.3.73.0 |
| 164 | Tariff 4 reactive MD(-) occurring time | 4#1.0.4.6.4.255#5   | 0.8.0.6.19.1.7.0.0.0.0.4.0.0.224.0.1.0   |
| 165 | Tariff 4 reactive MD(+) occurring time | 4#1.0.3.6.4.255#5   | 0.8.0.6.1.1.7.0.0.0.0.4.0.0.224.0.61.0   |
| 166 | Tariff 5 Active MD(+) occurring time   | 4#1.0.1.6.5.255#5   | 0.8.0.6.1.1.7.0.0.0.0.5.0.0.224.0.1.0    |
| 167 | Tariff 6 Active MD(+) occurring time   | 4#1.0.1.6.6.255#5   | 0.8.0.6.1.1.7.0.0.0.0.6.0.0.224.0.1.0    |
| 168 | Tariff 7 Active MD(+) occurring time   | 4#1.0.1.6.7.255#5   | 0.8.0.6.1.1.7.0.0.0.0.7.0.0.224.0.1.0    |
| 169 | Tariff 8 Active MD(+) occurring time   | 4#1.0.1.6.8.255#5   | 0.8.0.6.1.1.7.0.0.0.0.8.0.0.224.0.1.0    |
| 170 | Total Active billing energy+           | 3#1.0.1.9.0.255#2   | 0.26.0.1.0.1.12.0.0.0.0.0.0.0.224.3.72.0 |
| 171 | Total Active MD(-) occurring time      | 4#1.0.2.6.0.255#5   | 0.8.0.6.19.1.7.0.0.0.0.0.0.0.224.0.1.0   |
| 172 | Total Active MD(+) occurring time      | 4#1.0.1.6.0.255#5   | 0.8.0.6.1.1.7.0.0.0.0.0.0.0.224.0.1.0    |
| 173 | Total apparent energy-                 | 3#1.0.10.8.0.255#2  | 0.0.0.1.19.1.12.0.0.0.0.0.0.0.224.3.71.0 |
| 174 | Total apparent energy+                 | 3#1.0.9.8.0.255#2   | 0.0.0.1.1.1.12.0.0.0.0.0.0.0.224.3.71.0  |
| 175 | Total apparent MD(-)                   | 4#1.0.10.6.0.255#2  | 0.8.0.6.19.1.8.0.0.0.0.0.0.0.224.0.61.0  |
| 176 | Total apparent MD(-) occurring time    | 4#1.0.10.6.0.255#5  | 0.8.0.6.19.1.7.0.0.0.0.0.0.0.224.0.1.0   |
| 177 | Total apparent MD(+)                   | 4#1.0.9.6.0.255#2   | 0.8.0.6.1.1.8.0.0.0.0.0.0.0.224.0.61.0   |
| 178 | Total apparent MD(+) occurring time    | 4#1.0.9.6.0.255#5   | 0.8.0.6.1.1.7.0.0.0.0.0.0.0.224.0.1.0    |
| 179 | Total average power factor             | 3#1.0.13.15.0.255#2 | 0.2.0.1.0.1.38.0.0.0.0.0.0.0.224.0.65.0  |

| NO. | Data Name                            | Standard OBIS       | Standard CIM                             |
|-----|--------------------------------------|---------------------|--|
| 180 | Total average power factor, tariff 1 | 3#1.0.13.15.1.255#2 | 0.2.0.1.0.1.38.0.0.0.0.1.0.0.224.0.65.0  |
| 181 | Total average power factor, tariff 2 | 3#1.0.13.15.2.255#2 | 0.2.0.1.0.1.38.0.0.0.0.2.0.0.224.0.65.0  |
| 182 | Total average power factor, tariff 3 | 3#1.0.13.15.3.255#2 | 0.2.0.1.0.1.38.0.0.0.0.3.0.0.224.0.65.0  |
| 183 | Total average power factor, tariff 4 | 3#1.0.13.15.4.255#2 | 0.2.0.1.0.1.38.0.0.0.0.4.0.0.224.0.65.0  |
| 184 | Total reactive billing energy+       | 3#1.0.3.9.0.255#2   | 13.0.0.1.1.1.12.0.0.0.0.0.0.0.224.3.73.0 |
| 185 | Total reactive MD(-) occurring time  | 4#1.0.4.6.0.255#5   | 0.8.0.6.19.1.7.0.0.0.0.0.0.0.224.0.1.0   |
| 186 | Total reactive MD(+) occurring time  | 4#1.0.3.6.0.255#5   | 0.8.0.6.1.1.7.0.0.0.0.0.0.0.224.0.61.0   |
| 187 | Vector sum of current in all Phases  | 3#1.0.128.7.0.255#2 | 0.0.0.1.0.1.4.0.0.0.0.0.0.0.224.0.5.0    |

**Three Phase Meter:****Justified Short Code**

There are short code table, through this short code, user can get the information of meter.

| Short code | Data meaning                                   | Short code | Data meaning                                   |
|------------|--|------------|--|
| Any code   | Cancel audible alarm                           | 00         | Active emergency overdraft                     |
| 800        | Total positive active energy                   | 801        | Meter remaining balance                        |
| 802        | Current date                                   | 803        | Current time                                   |
| 804        | Meter serial No.                               | 805        | SGC No.  |
| 806        | Reason of relay operation                      | 807        | Meter status words                             |
| 808        | Total instantaneous power                      | 809        | Tariff index number                            |
| 810        | Emergency Overdraft limit                      | 811        | Active emergency overdraft                     |
| 813        | Total forward active energy for yesterday      | 814        | Total forward active energy for current month  |
| 815        | Recharge date for last time                    | 816        | Recharge time for last time                    |
| 817        | Recharge amount for last time                  | 818        | Log out return code                            |
| 819        | Power outage No                                | 820        | Total forward active energy for last month     |
| 821        | Total forward active energy for last 2nd month | 822        | Total forward active energy for last 3rd month |
| 823        | Total forward active energy for last 4th month | 824        | Total forward active energy for last 5th month |
| 825        | Total forward active energy for last           | 830        | TOKEN code for last time recharging            |

| Short code | Data meaning  | Short code | Data meaning   |
|------------|---|------------|--|
|            | 6th month   |            |  |
| 831        | TOKEN codes for last 2nd time recharging                                  | 832        | TOKEN codes for last 3rd time recharging   |
| 833        | TOKEN codes for last 4th time recharging                                  | 834        | TOKEN codes for last 5th time recharging   |
| 835        | TOKEN codes for last 6th time recharging                                  | 836        | TOKEN codes for last 7th time recharging   |
| 837        | TOKEN codes for last 8th time recharging                                  | 838        | TOKEN codes for last 9th time recharging   |
| 839        | TOKEN codes for last 10th time recharging                                 | 865        | Meter entering normal working mode   |
| 866        | Measuring accuracy displays 3 decimals, automatically exit after 1 minute | 868        | Relay testing  |
| 869        | Maximum power (Load Limit)  | 870        | A phase voltage  |
| 871        | B phase voltage (not support in Three phase meter)                        | 872        | C phase voltage (not support in Three phase meter)   |
| 873        | Key version No.   | 874        | A phase current  |
| 875        | B phase current   | 876        | C phase current (not support in Three phase meter)   |
| 877        | A phase power   | 878        | B phase power  |
| 879        | C phase power (not support in Three phase meter)                          | 880        | Average value for daily power consumption  |
| 881        | Average value for monthly power consumption                               | 886        | The price of current Tariff  |
| 887        | Current step tariff   | 888        | Recharging return code   |
| 889        | Current TOKEN sequence No.  | 890        | TOKEN rejected times   |
| 891        | TOKEN accepted times  | 892        | Relay connection times   |
| 893        | Relay disconnection times   | 894        | Max. overdraft amount under friendly mode  |
| 895        | Allowed using days under friendly mode                                    | 896        | Already used days under friendly mode  |
| 897        | Start time of friendly hour   | 898        | End time of friendly hour  |
| 899        | Weekend   | 900        | The status of friendly mode<br>1 : uuworkday: No-friendly mode or friendly times is run out<br>2 : F-Hour: Friendly hour<br>3 : uweekend : weekend<br>4 : holiday: holiday<br>5 : EnnErg: emergency mode<br>6 : SpEciAL: weekend or friendly day is finished but does not arrival next day 10 o' clock |

| Short code | Data meaning   | Short code | Data meaning   |
|------------|--|------------|--|
| 901        | kWh of Step 1/ kWh of Tariff 1                           | 902        | kWh of Step 2/ kWh of Tariff 2                           |
| 903        | kWh of Step 3/ kWh of Tariff 3                           | 904        | kWh of Step 4/ kWh of Tariff 4                           |
| 905        | kWh of Step 5/ kWh of Tariff 5                           | 906        | kWh of Step 6/ kWh of Tariff 6                           |
| 907        | kWh of Step 7/ kWh of Tariff 7                           | 908        | rate of Step 1/ price of Tariff 1                        |
| 909        | rate of Step 2/ price of Tariff 2                        | 910        | rate of Step 3/ price of Tariff 3                        |
| 911        | rate of Step 4/ price of Tariff 4                        | 912        | rate of Step 5/ price of Tariff 5                        |
| 913        | rate of Step 6/ price of Tariff 6                        | 914        | rate of Step 7/ price of Tariff 7                        |
| 915        | rate of Step 8/ price of Tariff 8                        | 916        | The average PF of last month                             |
| 917        | Level 1 alarm of balance low                             | 918        | Level 2 alarm of balance low                             |
| 919        | Level 3 alarm of balance low                             | 920        | Special step status word                                 |
| 921        | Already used times of weekend                            | 922        | Consumption amount of current month                      |
| 923        | Consumption amount of last month                         | 924        | Consumption amount of last 2nd month                     |
| 925        | Consumption amount of last 3rd month                     | 926        | Consumption amount of last 4th month                     |
| 927        | Consumption amount of last 5th month                     | 928        | Consumption amount of last 6th month                     |
| 930 *      | PFC of last month (not support in Three phase meter)     | 931        | PFC of last 2nd month (not support in Three phase meter) |
| 932        | PFC of last 3rd month (not support in Three phase meter) | 933        | PFC of last 4th month (not support in Three phase meter) |
| 934        | PFC of last 5th month (not support in Three phase meter) | 935        | PFC of last 6th month (not support in Three phase meter) |
| 940        | Reactive energy of last month                            | 941        | Reactive energy of last 2nd month                        |
| 942        | Reactive energy of last 3rd month                        | 943        | Reactive energy of last 4th month                        |
| 944        | Reactive energy of last 5th month                        | 945        | Reactive energy of last 6th month                        |
| 952        | Prepay Mode or Post-pay mode indication                  | 953        | Neutral Current  |
| 954        | Total tariff 1 active energy (KWh)                       | 955        | Total tariff 2 active energy(KWh)                        |
| 956        | Total tariff 3 active energy(KWh)                        | 957        | Total tariff 4 active energy(KWh)                        |
| 958        | Total tariff 5 active energy(KWh)                        | 959        | Total tariff 6 active energy(KWh)                        |
| 960        | Total tariff 7 active energy(KWh)                        | 961        | Total tariff 8 active energy(KWh)                        |
| 962        | Positive tariff 1 reactive energy                        | 963        | Positive tariff 1 reactive energy                        |
| 964        | Positive tariff 3 reactive energy                        | 965        | Positive tariff 3 reactive energy                        |
| 966        | Total positive reactive energy                           | 970        | Negative tariff 1 reactive energy                        |
| 971        | Negative tariff 2 reactive energy                        | 972        | Negative tariff 3 reactive energy                        |
| 973        | Negative tariff 4 reactive energy                        | 974        | Total negative reactive energy                           |
| 981        | Emergency overdraft balance                              | 985        | Total consumption credit                                 |
| 986        | Remaining energy (estimated value)                       | 998        | Average power factor of current month                    |
| 420        | The opening terminal cover time for last time            | 421        | The opening terminal cover date for last time            |

## Standard OBIS Information

| NO. | Data Name                                     | Standard OBIS      | Standard CIM                                |
|-----|---|--------------------|---|
| 1   | A phase Current                               | 3#1.0.31.7.0.255#2 | 0.0.0.12.0.1.4.0.0.0.0.0.0.0.128.0.5.0      |
| 2   | A phase Power Factor                          | 3#1.0.33.7.0.255#2 | 0.0.0.12.19.1.37.0.0.0.0.0.0.0.0.224.3.38.0 |
| 3   | A phase Voltage                               | 3#1.0.32.7.0.255#2 | 0.0.0.12.0.1.54.0.0.0.0.0.0.0.128.0.29.0    |
| 4   | Active energy ( +A - -A )<br>Net tariff1      | 3#1.0.16.8.1.255#2 | 0.26.0.1.4.1.12.0.0.0.0.1.0.0.224.3.72.0    |
| 5   | Active energy ( +A - -A )<br>Net tariff2      | 3#1.0.16.8.2.255#2 | 0.26.0.1.4.1.12.0.0.0.0.2.0.0.224.3.72.0    |
| 6   | Active energy ( +A - -A )<br>Net tariff3      | 3#1.0.16.8.3.255#2 | 0.26.0.1.4.1.12.0.0.0.0.3.0.0.224.3.72.0    |
| 7   | Active energy ( +A - -A )<br>Net tariff4      | 3#1.0.16.8.4.255#2 | 0.26.0.1.4.1.12.0.0.0.0.4.0.0.224.3.72.0    |
| 8   | Active energy ( +A - -A )<br>Net total        | 3#1.0.16.8.0.255#2 | 0.26.0.1.4.1.12.0.0.0.0.0.0.0.224.3.72.0    |
| 9   | Active energy ( +A + -A )<br>Combined tariff1 | 3#1.0.15.8.1.255#2 | 0.26.0.1.20.1.12.0.0.0.0.1.0.0.224.3.72.0   |
| 10  | Active energy ( +A + -A )<br>Combined tariff2 | 3#1.0.15.8.2.255#2 | 0.26.0.1.20.1.12.0.0.0.0.2.0.0.224.3.72.0   |
| 11  | Active energy ( +A + -A )<br>Combined tariff3 | 3#1.0.15.8.3.255#2 | 0.26.0.1.20.1.12.0.0.0.0.3.0.0.224.3.72.0   |
| 12  | Active energy ( +A + -A )<br>Combined tariff4 | 3#1.0.15.8.4.255#2 | 0.26.0.1.20.1.12.0.0.0.0.4.0.0.224.3.72.0   |
| 13  | Active energy ( +A + -A )<br>Combined total   | 3#1.0.15.8.0.255#2 | 0.26.0.1.20.1.12.0.0.0.0.0.0.0.224.3.72.0   |
| 14  | Active energy export (-A)                     | 3#1.0.2.8.0.255#2  | 0.26.0.1.19.1.12.0.0.0.0.0.0.0.224.3.72.0   |
| 15  | Active energy export (-A)<br>rate1            | 3#1.0.2.8.1.255#2  | 0.26.0.1.19.1.12.0.0.0.0.1.0.0.224.3.72.0   |
| 16  | Active energy export (-A)<br>rate2            | 3#1.0.2.8.2.255#2  | 0.26.0.1.19.1.12.0.0.0.0.2.0.0.224.3.72.0   |
| 17  | Active energy export (-A)<br>rate3            | 3#1.0.2.8.3.255#2  | 0.26.0.1.19.1.12.0.0.0.0.3.0.0.224.3.72.0   |
| 18  | Active energy export (-A)<br>rate4            | 3#1.0.2.8.4.255#2  | 0.26.0.1.19.1.12.0.0.0.0.4.0.0.224.3.72.0   |
| 19  | Active energy export (-A)<br>rate5            | 3#1.0.2.8.5.255#2  | 0.26.0.1.19.1.12.0.0.0.0.5.0.0.224.3.72.0   |
| 20  | Active energy export (-A)<br>rate6            | 3#1.0.2.8.6.255#2  | 0.26.0.1.19.1.12.0.0.0.0.6.0.0.224.3.72.0   |
| 21  | Active energy export (-A)<br>rate7            | 3#1.0.2.8.7.255#2  | 0.26.0.1.19.1.12.0.0.0.0.7.0.0.224.3.72.0   |

| NO. | Data Name                              | Standard OBIS      | Standard CIM                              |
|-----|--|--------------------|---|
| 22  | Active energy export (-A) rate8        | 3#1.0.2.8.8.255#2  | 0.26.0.1.19.1.12.0.0.0.0.8.0.0.224.3.72.0 |
| 23  | Active energy import (+A)              | 3#1.0.1.8.0.255#2  | 0.26.0.1.1.1.12.0.0.0.0.0.0.0.224.3.72.0  |
| 24  | Active energy import (+A) rate1        | 3#1.0.1.8.1.255#2  | 0.26.0.1.1.1.12.0.0.0.0.1.0.0.224.3.72.0  |
| 25  | Active energy import (+A) rate2        | 3#1.0.1.8.2.255#2  | 0.26.0.1.1.1.12.0.0.0.0.2.0.0.224.3.72.0  |
| 26  | Active energy import (+A) rate3        | 3#1.0.1.8.3.255#2  | 0.26.0.1.1.1.12.0.0.0.0.3.0.0.224.3.72.0  |
| 27  | Active energy import (+A) rate4        | 3#1.0.1.8.4.255#2  | 0.26.0.1.1.1.12.0.0.0.0.4.0.0.224.3.72.0  |
| 28  | Active energy import (+A) rate5        | 3#1.0.1.8.5.255#2  | 0.26.0.1.1.1.12.0.0.0.0.5.0.0.224.3.72.0  |
| 29  | Active energy import (+A) rate6        | 3#1.0.1.8.6.255#2  | 0.26.0.1.1.1.12.0.0.0.0.6.0.0.224.3.72.0  |
| 30  | Active energy import (+A) rate7        | 3#1.0.1.8.7.255#2  | 0.26.0.1.1.1.12.0.0.0.0.7.0.0.224.3.72.0  |
| 31  | Active energy import (+A) rate8        | 3#1.0.1.8.8.255#2  | 0.26.0.1.1.1.12.0.0.0.0.8.0.0.224.3.72.0  |
| 32  | Active MD (-)                          | 4#1.0.2.6.0.255#2  | 0.8.2.6.19.1.8.0.0.0.0.0.0.0.224.3.38.0   |
| 33  | Active MD (-) tariff1                  | 4#1.0.2.6.1.255#2  | 0.8.2.6.19.1.8.0.0.0.0.1.0.0.224.3.38.0   |
| 34  | Active MD (-) tariff2                  | 4#1.0.2.6.2.255#2  | 0.8.2.6.19.1.8.0.0.0.0.2.0.0.224.3.38.0   |
| 35  | Active MD (-) tariff3                  | 4#1.0.2.6.3.255#2  | 0.8.2.6.19.1.8.0.0.0.0.3.0.0.224.3.38.0   |
| 36  | Active MD (-) tariff4                  | 4#1.0.2.6.4.255#2  | 0.8.2.6.19.1.8.0.0.0.0.4.0.0.224.3.38.0   |
| 37  | Active MD ( QI+QIV + QII+QIII)         | 4#1.0.15.6.0.255#2 | 0.8.0.6.20.1.8.0.0.0.0.0.0.0.224.3.38.0   |
| 38  | Active MD ( QI+QIV + QII+QIII) tariff1 | 4#1.0.15.6.1.255#2 | 0.8.0.6.20.1.8.0.0.0.0.1.0.0.224.3.38.0   |
| 39  | Active MD ( QI+QIV + QII+QIII) tariff2 | 4#1.0.15.6.2.255#2 | 0.8.0.6.20.1.8.0.0.0.0.2.0.0.224.3.38.0   |
| 40  | Active MD ( QI+QIV + QII+QIII) tariff3 | 4#1.0.15.6.3.255#2 | 0.8.0.6.20.1.8.0.0.0.0.3.0.0.224.3.38.0   |
| 41  | Active MD ( QI+QIV + QII+QIII) tariff4 | 4#1.0.15.6.4.255#2 | 0.8.0.6.20.1.8.0.0.0.0.4.0.0.224.3.38.0   |
| 42  | Active MD (+)                          | 4#1.0.1.6.0.255#2  | 0.8.0.6.1.1.8.0.0.0.0.0.0.0.224.3.38.0    |
| 43  | Active MD (+) tariff1                  | 4#1.0.1.6.1.255#2  | 0.8.0.6.1.1.8.0.0.0.0.1.0.0.224.3.38.0    |
| 44  | Active MD (+) tariff2                  | 4#1.0.1.6.2.255#2  | 0.8.0.6.1.1.8.0.0.0.0.2.0.0.224.3.38.0    |
| 45  | Active MD (+) tariff3                  | 4#1.0.1.6.3.255#2  | 0.8.0.6.1.1.8.0.0.0.0.3.0.0.224.3.38.0    |

| NO. | Data Name                                 | Standard OBIS        | Standard CIM                              |
|-----|---|----------------------|---|
| 46  | Active MD (+) tariff4                     | 4#1.0.1.6.4.255#2    | 0.8.0.6.1.1.8.0.0.0.0.4.0.0.224.3.38.0    |
| 47  | Tariff 5 Active MD(+)                     | 4#1.0.1.6.5.255#2    | 0.8.0.6.1.1.8.0.0.0.0.5.0.0.224.3.38.0    |
| 48  | Tariff 6 Active MD(+)                     | 4#1.0.1.6.6.255#2    | 0.8.0.6.1.1.8.0.0.0.0.6.0.0.224.3.38.0    |
| 49  | Tariff 7 Active MD(+)                     | 4#1.0.1.6.7.255#2    | 0.8.0.6.1.1.8.0.0.0.0.7.0.0.224.0.1.0     |
| 50  | Tariff 8 Active MD(+)                     | 4#1.0.1.6.8.255#2    | 0.8.0.6.1.1.8.0.0.0.0.8.0.0.224.3.38.0    |
| 51  | Angle of U(L1) - U(L2)                    | 3#1.0.81.7.10.255#2  | 0.0.0.1.0.1.55.0.0.0.0.0.0.0.224.0.1.0    |
| 52  | Angle of U(L1) - U(L3)                    | 3#1.0.81.7.20.255#2  | 0.0.0.1.0.1.55.0.0.0.0.1.0.0.224.0.1.0    |
| 53  | Apparent power+ (QI+QIV) , Phase A        | 3#1.0.29.7.0.255#2   | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.128.3.61.0  |
| 54  | Apparent power+ (QI+QIV) , Phase B        | 3#1.0.49.7.0.255#2   | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.64.3.61.0   |
| 55  | Apparent power+ (QI+QIV) , Phase C        | 3#1.0.69.7.0.255#2   | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.32.3.61.0   |
| 56  | B phase Current                           | 3#1.0.51.7.0.255#2   | 0.0.0.12.0.1.4.0.0.0.0.0.0.0.64.0.5.0     |
| 57  | B phase Power Factor                      | 3#1.0.53.7.0.255#2   | 0.0.0.12.19.1.37.0.0.0.0.0.0.0.224.3.63.0 |
| 58  | B phase Voltage                           | 3#1.0.52.7.0.255#2   | 0.0.0.12.0.1.54.0.0.0.0.0.0.0.64.0.29.0   |
| 59  | C phase Current                           | 3#1.0.71.7.0.255#2   | 0.0.0.12.0.1.4.0.0.0.0.0.0.0.32.0.5.0     |
| 60  | C phase Power Factor                      | 3#1.0.73.7.0.255#2   | 0.0.0.12.0.1.38.0.0.0.0.0.0.0.32.0.65.0   |
| 61  | C phase Voltage                           | 3#1.0.72.7.0.255#2   | 0.0.0.12.0.1.54.0.0.0.0.0.0.0.32.0.29.0   |
| 62  | Current , neutral                         | 3#1.0.91.7.0.255#2   | 0.0.0.1.0.1.4.0.0.0.0.0.0.0.224.0.5.0     |
| 63  | Daily Freezing For Energy                 | 7#0.0.98.2.0.255#2   | 11.26.0.1.0.1.12.0.0.0.0.0.0.0.224.3.72.0 |
| 64  | Daily Freezing For Total Energy           | 7#0.0.98.5.128.255#2 | 11.0.0.1.0.1.12.0.0.0.0.0.0.0.224.3.72.0  |
| 65  | Daily Freezing Prepaid Information        | 7#0.0.99.2.0.255#2   | 11.26.0.1.0.1.12.0.0.0.0.1.0.0.224.3.72.0 |
| 66  | Daily Frozen Forward Active Energy Block  | 7#0.0.98.1.128.255#2 | 11.26.0.1.0.1.12.0.0.0.0.2.0.0.224.3.72.0 |
| 67  | Instantaneous active export power (-A)    | 3#1.0.2.7.0.255#2    | 0.0.0.12.19.1.37.0.0.0.0.0.0.0.224.3.38.0 |
| 68  | Instantaneous active import power (+A)    | 3#1.0.1.7.0.255#2    | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.224.3.38.0  |
| 69  | Instantaneous active import power (+A) L1 | 3#1.0.21.7.0.255#2   | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.128.3.38.0  |
| 70  | Instantaneous active import power (+A) L2 | 3#1.0.41.7.0.255#2   | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.64.3.38.0   |
| 71  | Instantaneous active import power (+A) L3 | 3#1.0.61.7.0.255#2   | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.32.3.38.0   |

| NO. | Data Name  | Standard OBIS        | Standard CIM                                |
|-----|--|----------------------|---|
| 72  | Instantaneous net frequency                            | 3#1.0.14.7.0.255#2   | 0.0.0.12.0.1.15.0.0.0.0.0.0.0.0.224.0.33.0  |
| 73  | Instantaneous Power factor (+A/+VA)                    | 3#1.0.13.7.0.255#2   | 0.0.0.12.0.1.38.0.0.0.0.0.0.0.0.0.65.0      |
| 74  | Instantaneous reactive export power (-R)               | 3#1.0.4.7.0.255#2    | 0.0.0.12.19.1.37.0.0.0.0.0.0.0.0.224.3.63.0 |
| 75  | Instantaneous reactive import power (+R)               | 3#1.0.3.7.0.255#2    | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.0.224.3.63.0  |
| 76  | Meter Log Off Return Token                             | 1.0.129.129.11.255   | 0.0.0.12.0.0.0.0.0.0.0.0.128.0.211.0        |
| 77  | Monthly Freezing For Active MD Import Register Package | 7#0.0.98.7.128.255#2 | 13.0.0.1.0.1.8.0.0.0.0.0.0.0.224.3.72.0     |
| 78  | Monthly Freezing For Energy                            | 7#0.0.98.1.0.255#2   | 13.0.0.1.0.1.12.0.0.0.0.1.0.0.224.3.72.0    |
| 79  | Monthly Freezing For Total Energy                      | 7#0.0.98.6.128.255#2 | 13.0.0.1.0.1.12.0.0.0.0.5.0.0.224.3.72.0    |
| 80  | Monthly Freezing Prepaid Information                   | 7#0.0.99.1.0.255#2   | 13.0.0.1.0.1.12.0.0.0.0.2.0.0.224.3.72.0    |
| 81  | Monthly Frozen Forward Active Energy Block             | 7#0.0.98.3.128.255#2 | 13.0.0.1.0.1.12.0.0.0.0.3.0.0.224.3.72.0    |
| 82  | Monthly Frozen Special Block                           | 7#0.0.98.9.0.255#2   | 13.0.0.1.0.1.12.0.0.0.0.4.0.0.224.0.72.0    |
| 83  | Reactive energy export (-R)                            | 3#1.0.4.8.0.255#2    | 0.26.0.1.13.1.12.0.0.0.0.0.0.0.224.3.73.0   |
| 84  | Reactive energy export (-R) rate1                      | 3#1.0.4.8.1.255#2    | 0.26.0.1.13.1.12.0.0.0.0.1.0.0.224.3.73.0   |
| 85  | Reactive energy export (-R) rate2                      | 3#1.0.4.8.2.255#2    | 0.26.0.1.13.1.12.0.0.0.0.2.0.0.224.3.73.0   |
| 86  | Reactive energy export (-R) rate3                      | 3#1.0.4.8.3.255#2    | 0.26.0.1.13.1.12.0.0.0.0.3.0.0.224.3.73.0   |
| 87  | Reactive energy export (-R) rate4                      | 3#1.0.4.8.4.255#2    | 0.26.0.1.13.1.12.0.0.0.0.4.0.0.224.3.73.0   |
| 88  | Reactive energy export (-R) rate5                      | 3#1.0.4.8.5.255#2    | 0.26.0.1.13.1.12.0.0.0.0.5.0.0.224.3.73.0   |
| 89  | Reactive energy export (-R) rate6                      | 3#1.0.4.8.6.255#2    | 0.26.0.1.13.1.12.0.0.0.0.6.0.0.224.3.73.0   |
| 90  | Reactive energy export (-R) rate7                      | 3#1.0.4.8.7.255#2    | 0.26.0.1.13.1.12.0.0.0.0.7.0.0.224.3.73.0   |
| 91  | Reactive energy export (-R) rate8                      | 3#1.0.4.8.8.255#2    | 0.26.0.1.13.1.12.0.0.0.0.8.0.0.224.3.73.0   |
| 92  | Reactive energy import (+R)                            | 3#1.0.3.8.0.255#2    | 0.26.0.1.5.1.12.0.0.0.0.0.0.0.224.3.73.0    |

| NO. | Data Name                            | Standard OBIS         | Standard CIM                             |
|-----|--------------------------------------|-----------------------|--|
| 93  | Reactive energy import (+R) rate1    | 3#1.0.3.8.1.255#2     | 0.26.0.1.1.1.12.0.0.0.0.1.0.0.224.3.73.0 |
| 94  | Reactive energy import (+R) rate2    | 3#1.0.3.8.2.255#2     | 0.26.0.1.1.1.12.0.0.0.0.2.0.0.224.3.73.0 |
| 95  | Reactive energy import (+R) rate3    | 3#1.0.3.8.3.255#2     | 0.26.0.1.1.1.12.0.0.0.0.3.0.0.224.3.73.0 |
| 96  | Reactive energy import (+R) rate4    | 3#1.0.3.8.4.255#2     | 0.26.0.1.1.1.12.0.0.0.0.4.0.0.224.3.73.0 |
| 97  | Reactive energy import (+R) rate5    | 3#1.0.3.8.5.255#2     | 0.26.0.1.1.1.12.0.0.0.0.5.0.0.224.3.73.0 |
| 98  | Reactive energy import (+R) rate6    | 3#1.0.3.8.6.255#2     | 0.26.0.1.1.1.12.0.0.0.0.6.0.0.224.3.73.0 |
| 99  | Reactive energy import (+R) rate7    | 3#1.0.3.8.7.255#2     | 0.26.0.1.1.1.12.0.0.0.0.7.0.0.224.3.73.0 |
| 100 | Reactive energy import (+R) rate8    | 3#1.0.3.8.8.255#2     | 0.26.0.1.1.1.12.0.0.0.0.8.0.0.224.3.73.0 |
| 101 | Reactive MD (-)                      | 4#1.0.4.6.0.255#2     | 0.8.0.6.19.1.8.0.0.0.0.0.0.0.224.3.63.0  |
| 102 | Reactive MD (-)tariff1               | 4#1.0.4.6.1.255#2     | 0.8.0.6.19.1.8.0.0.0.0.1.0.0.224.3.63.0  |
| 103 | Reactive MD (-)tariff2               | 4#1.0.4.6.2.255#2     | 0.8.0.6.19.1.8.0.0.0.0.2.0.0.224.3.63.0  |
| 104 | Reactive MD (-)tariff3               | 4#1.0.4.6.3.255#2     | 0.8.0.6.19.1.8.0.0.0.0.3.0.0.224.3.63.0  |
| 105 | Reactive MD (-)tariff4               | 4#1.0.4.6.4.255#2     | 0.8.0.6.19.1.8.0.0.0.0.4.0.0.224.3.63.0  |
| 106 | Reactive MD (+)                      | 4#1.0.3.6.0.255#2     | 0.8.0.6.1.1.8.0.0.0.0.0.0.0.224.3.63.0   |
| 107 | Reactive MD (+) tariff1              | 4#1.0.3.6.1.255#2     | 0.8.0.6.1.1.8.0.0.0.0.1.0.0.224.3.63.0   |
| 108 | Reactive MD (+) tariff2              | 4#1.0.3.6.2.255#2     | 0.8.0.6.1.1.8.0.0.0.0.2.0.0.224.3.63.0   |
| 109 | Reactive MD (+) tariff3              | 4#1.0.3.6.3.255#2     | 0.8.0.6.1.1.8.0.0.0.0.3.0.0.224.3.63.0   |
| 110 | Reactive MD (+) tariff4              | 4#1.0.3.6.4.255#2     | 0.8.0.6.1.1.8.0.0.0.0.4.0.0.224.3.63.0   |
| 111 | Reactive power(+), Phase A           | 3#1.0.23.7.0.255#2    | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.128.3.63.0 |
| 112 | Reactive power(+), Phase B           | 3#1.0.43.7.0.255#2    | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.64.3.63.0  |
| 113 | Reactive power(+), Phase C           | 3#1.0.63.7.0.255#2    | 0.0.0.12.1.1.37.0.0.0.0.0.0.0.32.3.63.0  |
| 114 | Relay Control Mode                   | 70#0.0.96.3.10.255#4  | 0.0.0.12.0.0.0.0.0.0.0.5.0.211.0         |
| 115 | Relay Control Status                 | 70#0.0.96.3.10.255#3  | 0.0.0.12.0.0.0.0.0.0.0.4.0.211.0         |
| 116 | Relay Output Status                  | 70#0.0.96.3.10.255#2  | 0.0.0.12.0.0.0.0.0.0.0.3.0.211.0         |
| 117 | Remaining balance                    | 3#1.0.140.129.0.255#2 | 0.0.0.12.0.0.0.0.1.0.0.0.0.0             |
| 118 | Tariff 1 Active billing energy+      | 3#1.0.1.9.1.255#2     | 13.0.0.1.1.1.12.0.0.0.0.1.0.0.224.3.72.0 |
| 119 | Tariff 1 Active MD(-) occurring time | 4#1.0.2.6.1.255#5     | 0.8.0.6.19.1.7.0.0.0.0.1.0.0.224.0.1.0   |

| NO. | Data Name                              | Standard OBIS      | Standard CIM                             |
|-----|--|--------------------|--|
| 120 | Tariff 1 Active MD(+) occurring time   | 4#1.0.1.6.1.255#5  | 0.8.0.6.1.1.7.0.0.0.0.1.0.0.224.0.1.0    |
| 121 | Tariff 1 apparent energy-              | 3#1.0.10.8.1.255#2 | 0.0.0.1.19.1.12.0.0.0.0.1.0.0.224.3.71.0 |
| 122 | Tariff 1 apparent energy+              | 3#1.0.9.8.1.255#2  | 0.0.0.1.1.1.12.0.0.0.0.1.0.0.224.3.71.0  |
| 123 | Tariff 1 apparent MD(-)                | 4#1.0.10.6.1.255#2 | 0.8.0.6.19.1.8.0.0.0.0.1.0.0.224.0.61.0  |
| 124 | Tariff 1 apparent MD(-) occurring time | 4#1.0.10.6.1.255#5 | 0.8.0.6.19.1.7.0.0.0.0.1.0.0.224.0.1.0   |
| 125 | Tariff 1 apparent MD(+)                | 4#1.0.9.6.1.255#2  | 0.8.0.6.1.1.8.0.0.0.0.1.0.0.224.0.61.0   |
| 126 | Tariff 1 apparent MD(+) occurring time | 4#1.0.9.6.1.255#5  | 0.8.0.6.1.1.7.0.0.0.0.1.0.0.224.0.1.0    |
| 127 | Tariff 1 reactive billing energy+      | 3#1.0.3.9.1.255#2  | 13.0.0.1.1.1.12.0.0.0.0.1.0.0.224.3.73.0 |
| 128 | Tariff 1 reactive MD(-) occurring time | 4#1.0.4.6.1.255#5  | 0.8.0.6.19.1.7.0.0.0.0.1.0.0.224.0.1.0   |
| 129 | Tariff 1 reactive MD(+) occurring time | 4#1.0.3.6.1.255#5  | 0.8.0.6.1.1.7.0.0.0.0.1.0.0.224.0.61.0   |
| 130 | Tariff 2 Active billing energy+        | 3#1.0.1.9.2.255#2  | 13.0.0.1.1.1.12.0.0.0.0.2.0.0.224.3.72.0 |
| 131 | Tariff 2 Active MD(-) occurring time   | 4#1.0.2.6.2.255#5  | 0.8.0.6.19.1.7.0.0.0.0.2.0.0.224.0.1.0   |
| 132 | Tariff 2 Active MD(+) occurring time   | 4#1.0.1.6.2.255#5  | 0.8.0.6.1.1.7.0.0.0.0.2.0.0.224.0.1.0    |
| 133 | Tariff 2 apparent energy-              | 3#1.0.10.8.2.255#2 | 0.0.0.1.19.1.12.0.0.0.0.2.0.0.224.3.71.0 |
| 134 | Tariff 2 apparent energy+              | 3#1.0.9.8.2.255#2  | 0.0.0.1.1.1.12.0.0.0.0.2.0.0.224.3.71.0  |
| 135 | Tariff 2 apparent MD(-)                | 4#1.0.10.6.2.255#2 | 0.8.0.6.19.1.8.0.0.0.0.2.0.0.224.0.61.0  |
| 136 | Tariff 2 apparent MD(-) occurring time | 4#1.0.10.6.2.255#5 | 0.8.0.6.19.1.7.0.0.0.0.2.0.0.224.0.1.0   |
| 137 | Tariff 2 apparent MD(+)                | 4#1.0.9.6.2.255#2  | 0.8.0.6.1.1.8.0.0.0.0.2.0.0.224.0.61.0   |
| 138 | Tariff 2 apparent MD(+) occurring time | 4#1.0.9.6.2.255#5  | 0.8.0.6.1.1.7.0.0.0.0.2.0.0.224.0.1.0    |
| 139 | Tariff 2 reactive billing energy+      | 3#1.0.3.9.2.255#2  | 13.0.0.1.1.1.12.0.0.0.0.2.0.0.224.3.73.0 |
| 140 | Tariff 2 reactive MD(-) occurring time | 4#1.0.4.6.2.255#5  | 0.8.0.6.19.1.7.0.0.0.0.2.0.0.224.0.1.0   |
| 141 | Tariff 2 reactive MD(+) occurring time | 4#1.0.3.6.2.255#5  | 0.8.0.6.1.1.7.0.0.0.0.2.0.0.224.0.61.0   |
| 142 | Tariff 3 Active billing energy+        | 3#1.0.1.9.3.255#2  | 13.0.0.1.1.1.12.0.0.0.0.3.0.0.224.3.72.0 |
| 143 | Tariff 3 Active MD(-) occurring time   | 4#1.0.2.6.3.255#5  | 0.8.0.6.19.1.7.0.0.0.0.3.0.0.224.0.1.0   |
| 144 | Tariff 3 Active MD(+) occurring time   | 4#1.0.1.6.3.255#5  | 0.8.0.6.1.1.7.0.0.0.0.3.0.0.224.0.1.0    |

| NO. | Data Name                              | Standard OBIS      | Standard CIM                             |
|-----|--|--------------------|--|
| 145 | Tariff 3 apparent energy-              | 3#1.0.10.8.3.255#2 | 0.0.0.1.19.1.12.0.0.0.0.3.0.0.224.3.71.0 |
| 146 | Tariff 3 apparent energy+              | 3#1.0.9.8.3.255#2  | 0.0.0.1.1.1.12.0.0.0.0.3.0.0.224.3.71.0  |
| 147 | Tariff 3 apparent MD(-)                | 4#1.0.10.6.3.255#2 | 0.8.0.6.19.1.8.0.0.0.0.3.0.0.224.0.61.0  |
| 148 | Tariff 3 apparent MD(-) occurring time | 4#1.0.10.6.3.255#5 | 0.8.0.6.19.1.7.0.0.0.0.3.0.0.224.0.1.0   |
| 149 | Tariff 3 apparent MD(+)                | 4#1.0.9.6.3.255#2  | 0.8.0.6.1.1.8.0.0.0.0.3.0.0.224.0.61.0   |
| 150 | Tariff 3 apparent MD(+) occurring time | 4#1.0.9.6.3.255#5  | 0.8.0.6.1.1.7.0.0.0.0.3.0.0.224.0.1.0    |
| 151 | Tariff 3 reactive billing energy+      | 3#1.0.3.9.3.255#2  | 13.0.0.1.1.1.12.0.0.0.0.3.0.0.224.3.73.0 |
| 152 | Tariff 3 reactive MD(-) occurring time | 4#1.0.4.6.3.255#5  | 0.8.0.6.19.1.7.0.0.0.0.3.0.0.224.0.1.0   |
| 153 | Tariff 3 reactive MD(+) occurring time | 4#1.0.3.6.3.255#5  | 0.8.0.6.1.1.7.0.0.0.0.3.0.0.224.0.61.0   |
| 154 | Tariff 4 Active billing energy+        | 3#1.0.1.9.4.255#2  | 13.0.0.1.1.1.12.0.0.0.0.4.0.0.224.3.72.0 |
| 155 | Tariff 4 Active MD(-) occurring time   | 4#1.0.2.6.4.255#5  | 0.8.0.6.19.1.7.0.0.0.0.4.0.0.224.0.1.0   |
| 156 | Tariff 4 Active MD(+) occurring time   | 4#1.0.1.6.4.255#5  | 0.8.0.6.1.1.7.0.0.0.0.4.0.0.224.0.1.0    |
| 157 | Tariff 4 apparent energy-              | 3#1.0.10.8.4.255#2 | 0.0.0.1.19.1.12.0.0.0.0.4.0.0.224.3.71.0 |
| 158 | Tariff 4 apparent energy+              | 3#1.0.9.8.4.255#2  | 0.0.0.1.1.1.12.0.0.0.0.4.0.0.224.3.71.0  |
| 159 | Tariff 4 apparent MD(-)                | 4#1.0.10.6.4.255#2 | 0.8.0.6.19.1.8.0.0.0.0.4.0.0.224.0.61.0  |
| 160 | Tariff 4 apparent MD(-) occurring time | 4#1.0.10.6.4.255#5 | 0.8.0.6.19.1.7.0.0.0.0.4.0.0.224.0.1.0   |
| 161 | Tariff 4 apparent MD(+)                | 4#1.0.9.6.4.255#2  | 0.8.0.6.1.1.8.0.0.0.0.4.0.0.224.0.61.0   |
| 162 | Tariff 4 apparent MD(+) occurring time | 4#1.0.9.6.4.255#5  | 0.8.0.6.1.1.7.0.0.0.0.4.0.0.224.0.1.0    |
| 163 | Tariff 4 reactive billing energy+      | 3#1.0.3.9.4.255#2  | 13.0.0.1.1.1.12.0.0.0.0.4.0.0.224.3.73.0 |
| 164 | Tariff 4 reactive MD(-) occurring time | 4#1.0.4.6.4.255#5  | 0.8.0.6.19.1.7.0.0.0.0.4.0.0.224.0.1.0   |
| 165 | Tariff 4 reactive MD(+) occurring time | 4#1.0.3.6.4.255#5  | 0.8.0.6.1.1.7.0.0.0.0.4.0.0.224.0.61.0   |
| 166 | Tariff 5 Active MD(+) occurring time   | 4#1.0.1.6.5.255#5  | 0.8.0.6.1.1.7.0.0.0.0.5.0.0.224.0.1.0    |
| 167 | Tariff 6 Active MD(+) occurring time   | 4#1.0.1.6.6.255#5  | 0.8.0.6.1.1.7.0.0.0.0.6.0.0.224.0.1.0    |
| 168 | Tariff 7 Active MD(+) occurring time   | 4#1.0.1.6.7.255#5  | 0.8.0.6.1.1.7.0.0.0.0.7.0.0.224.0.1.0    |
| 169 | Tariff 8 Active MD(+) occurring time   | 4#1.0.1.6.8.255#5  | 0.8.0.6.1.1.7.0.0.0.0.8.0.0.224.0.1.0    |

| NO. | Data Name                            | Standard OBIS       | Standard CIM                             |
|-----|--------------------------------------|---------------------|--|
| 170 | Total Active billing energy+         | 3#1.0.1.9.0.255#2   | 0.26.0.1.0.1.12.0.0.0.0.0.0.0.224.3.72.0 |
| 171 | Total Active MD(-) occurring time    | 4#1.0.2.6.0.255#5   | 0.8.0.6.19.1.7.0.0.0.0.0.0.0.224.0.1.0   |
| 172 | Total Active MD(+) occurring time    | 4#1.0.1.6.0.255#5   | 0.8.0.6.1.1.7.0.0.0.0.0.0.0.224.0.1.0    |
| 173 | Total apparent energy-               | 3#1.0.10.8.0.255#2  | 0.0.0.1.19.1.12.0.0.0.0.0.0.0.224.3.71.0 |
| 174 | Total apparent energy+               | 3#1.0.9.8.0.255#2   | 0.0.0.1.1.1.12.0.0.0.0.0.0.0.224.3.71.0  |
| 175 | Total apparent MD(-)                 | 4#1.0.10.6.0.255#2  | 0.8.0.6.19.1.8.0.0.0.0.0.0.0.224.0.61.0  |
| 176 | Total apparent MD(-) occurring time  | 4#1.0.10.6.0.255#5  | 0.8.0.6.19.1.7.0.0.0.0.0.0.0.224.0.1.0   |
| 177 | Total apparent MD(+)                 | 4#1.0.9.6.0.255#2   | 0.8.0.6.1.1.8.0.0.0.0.0.0.0.224.0.61.0   |
| 178 | Total apparent MD(+) occurring time  | 4#1.0.9.6.0.255#5   | 0.8.0.6.1.1.7.0.0.0.0.0.0.0.224.0.1.0    |
| 179 | Total average power factor           | 3#1.0.13.15.0.255#2 | 0.2.0.1.0.1.38.0.0.0.0.0.0.0.224.0.65.0  |
| 180 | Total average power factor, tariff 1 | 3#1.0.13.15.1.255#2 | 0.2.0.1.0.1.38.0.0.0.0.1.0.0.224.0.65.0  |
| 181 | Total average power factor, tariff 2 | 3#1.0.13.15.2.255#2 | 0.2.0.1.0.1.38.0.0.0.0.2.0.0.224.0.65.0  |
| 182 | Total average power factor, tariff 3 | 3#1.0.13.15.3.255#2 | 0.2.0.1.0.1.38.0.0.0.0.3.0.0.224.0.65.0  |
| 183 | Total average power factor, tariff 4 | 3#1.0.13.15.4.255#2 | 0.2.0.1.0.1.38.0.0.0.0.4.0.0.224.0.65.0  |
| 184 | Total reactive billing energy+       | 3#1.0.3.9.0.255#2   | 13.0.0.1.1.1.12.0.0.0.0.0.0.0.224.3.73.0 |
| 185 | Total reactive MD(-) occurring time  | 4#1.0.4.6.0.255#5   | 0.8.0.6.19.1.7.0.0.0.0.0.0.0.224.0.1.0   |
| 186 | Total reactive MD(+) occurring time  | 4#1.0.3.6.0.255#5   | 0.8.0.6.1.1.7.0.0.0.0.0.0.0.224.0.61.0   |
| 187 | Vector sum of current in all Phases  | 3#1.0.128.7.0.255#2 | 0.0.0.1.0.1.4.0.0.0.0.0.0.0.224.0.5.0    |

## Annexures: Formats

| <b>Format</b> | <b>Title</b>                         |
|---------------|--------------------------------------|
| Format PG5A-A | Invitation for Tender (IFT)          |
| Format PG5A-B | Reporting Contract Award             |
| Format PG5A-C | Public Reporting on Contract Signing |
| Format PG5A-D | Acceptance Certificate               |

## Format: PG5A-A: Invitation for Tenders (IFT)

The **Invitation for Tenders (IFT)** is a copy of the standard format as appears on the website and used for published advertisement that provides relevant and essential information to help Tenderers to decide whether or not to participate in the particular Tender. This is provided in the Tender Document for information only. This should not be included in the FINAL DOCUMENT.

### Invitation for Tenders

[This is the website format and as used for published advertisement.

It is not part of the Tender Document and included in this Document for information only]

| GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH                                 |   |                              |                  |                                    |  |
|---|---|------------------------------|------------------|------------------------------------|--|
| 1   | Ministry/Division   | < select >                   |                  |                                    | V                                      |
| 2   | Agency  | < select >                   |                  |                                    | V                                      |
| 3   | Procuring Entity Name   | < type in name >             |                  |                                    |  |
| 4   | Procuring Entity Code   | Not used at present          |                  |                                    |  |
| 5   | Procuring Entity District   | < select >                   |                  |                                    | V                                      |
| 6   | Invitation for  | < select >                   | V                | < select >                         | V                                      |
| 7   | Invitation Ref No   | < type in name >             |                  |                                    |  |
| 8   | Date  | < select >                   |                  |                                    | V                                      |
| <b>KEY INFORMATION</b>  |   |                              |                  |                                    |  |
| 9   | Procurement Method  | < select >                   |                  |                                    | V                                      |
| <b>FUNDING INFORMATION</b>  |   |                              |                  |                                    |  |
| 10  | Budget and Source of Funds  | < select >                   |                  |                                    | V                                      |
| 11  | Development Partners (if applicable)  | < type in name >             |                  |                                    |  |
| <b>PARTICULAR INFORMATION</b>   |   |                              |                  |                                    |  |
| 12  | Project / Program Code (if applicable)  | < use MOF code >             |                  |                                    |  |
| 13  | Project / Program Name (if applicable)  | < use MOF name >             |                  |                                    |  |
| 14  | Tender Package No.  | < type in name >             |                  |                                    |  |
| 15  | Tender Package Name   | < type in name >             |                  |                                    |  |
| 16  | Tender Publication Date   | < select >                   |                  |                                    | V                                      |
| 17  | Tender Last Selling Date<br><i>[up to the day prior to the day of Deadline for Submission]</i>                      | < select >                   |                  |                                    | V                                      |
|   |   | <b>Date</b>                  |                  | <b>Time</b>                        |  |
| 18  | Tender Closing Date and Time  | < select >                   | V                | < select >                         | V                                      |
| 19  | Tender Opening Date and Time  | < select >                   | V                | < select >                         | V                                      |
| 20  | Name & Address of the office(s)<br>- Selling Tender Document (Principal)<br>- Selling Tender Document (Others)      | <b>Address</b>               |                  |                                    |  |
|   |   | < type in name >             |                  |                                    |  |
|   |   | < type in name >             |                  |                                    |  |
| <b>NO CONDITIONS APPLY FOR SALE, PURCHASE OR DISTRIBUTION OF TENDER DOCUMENTS</b> |   |                              |                  |                                    |  |
| 21  | - Receiving Tender Document<br>- Opening Tender Document<br>Place / Date / Time of<br>Pre-Tender Meeting (Optional) | < type in name >             |                  |                                    |  |
|   |   | < type in name >             |                  |                                    |  |
|   |   | < type in name >             |                  |                                    |  |
|   |   | <b>Date</b>                  |                  | <b>Time</b>                        |  |
|   |   | < select >                   | V                | < select >                         | V                                      |
| <b>INFORMATION FOR TENDERER</b>   |   |                              |                  |                                    |  |
| 22  | Brief Eligibility and Qualification of Tenderer   | < type in name >             |                  |                                    |  |
| 23  | Brief Description of Goods  | < type in name >             |                  |                                    |  |
| 24  | Brief Description of Related Services   | < type in name >             |                  |                                    |  |
| 25  | Price of Tender Document (Tk)   | < type in price >            |                  |                                    |  |
|   | <b>Lot No</b>   | <b>Identification of Lot</b> | <b>Location</b>  | <b>Tender Security Amount (Tk)</b> | <b>Completion Time in Weeks/Months</b> |
| 26  | 1   | < type in name >             | < type in name > | <type in>                          | <type in>                              |
| 27  | 2   | < type in name >             | < type in name > | <type in>                          | <type in>                              |
| 28  | 3   | < type in name >             | < type in name > | <type in>                          | <type in>                              |
| 29  | 4   | < type in name >             | < type in name > | <type in>                          | <type in>                              |
| 30  | Name of Official Inviting Tender  | < type in name >             |                  |                                    |  |
| 31  | Designation of Official Inviting Tender   | < type in name >             |                  |                                    |  |
| 32  | Address of Official Inviting Tender   | < type in name >             |                  |                                    |  |
| 33  | Contact details of Official Inviting Tender   | < Tel. No. >                 | < Fax No. >      | < e-mail >                         |  |
| 34  | The Procuring Entity reserves the right to reject all the Tenders or annul the Tender proceedings                   |                              |                  |                                    |  |

<select> : these fields are "pop-up" fields and the procuring entity will only have to select the correct name, address or date in order to complete the form. <type in name> : these fields are to be completed by typing in the relevant data.

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

## Format: PG3-B: Reporting Contract Award

| <b>GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH</b> |   |
|--|---|
| 1  | Ministry/Division                               |
| 2  | Agency  |
| 3  | Procuring Entity Name                           |
| 4  | Procuring Entity Code                           |
| 5  | Procuring Entity District                       |
| 6  | Contract Award for                              |
| 7  | Invitation/Proposal Ref. No                     |
| <b>KEY INFORMATION</b>                                   |   |
| 8  | Procurement Method                              |
| <b>FUNDING INFORMATION</b>                               |   |
| 9  | Budget and Source of Funds                      |
| 10   | Development Partners (if applicable)            |
| <b>PARTICULAR INFORMATION</b>                            |   |
| 11   | Project/Program Code (if applicable)            |
| 13   | Project/Program Name (if applicable)            |
| 14   | Tender/Proposal Package No.                     |
| 15   | Tender/Proposal Package Name                    |
| 16   | Date of Advertisement                           |
| 17   | No. of Tenders/Proposals Sold                   |
| 18   | No. of Tenders/Proposals Received               |
| 19   | No. of Responsive Tenders/Proposals             |
| 20   | Name of Responsive Tenderers                    |
| 21   | Date of Notification of Award                   |
| <b>INFORMATION ON AWARD</b>                              |   |
| 22   | Accepted Tender/Proposal Price                  |
| 23   | Name of the Successful Tenderer                 |
| 24   | Tenderer ID of the Successful Tenderer (If any) |
| <b>PROCURING ENTITY DETAILS</b>                          |   |
| 25   | Name of Authorized Officer                      |
| 26   | Designation of Authorized Officer               |

## Format: PG3-C: Public Reporting on Contract Signing

| <b>GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH</b> |  |
|--|--|
| 1  | Ministry/Division  |
| 2  | Agency   |
| 3  | Procuring Entity Name  |
| 4  | Procuring Entity Code  |
| 5  | Procuring Entity District  |
| 6  | Contract Award for   |
| 7  | Invitation/Proposal Ref. No  |
| <b>KEY INFORMATION</b>                                   |  |
| 8  | Procurement Method (National/International)  |
| <b>FUNDING INFORMATION</b>                               |  |
| 9  | Budget and Source of Funds   |
| 10   | Development Partners (if applicable)   |
| <b>PARTICULAR INFORMATION</b>                            |  |
| 11   | Project/Program Code (if applicable)   |
| 13   | Project/Program Name (if applicable)   |
| 14   | Tender/Proposal Package No.  |
| 15   | Tender/Proposal Package Name   |
| 16   | Date of Advertisement  |
| 17   | Date of Notification of Award  |
| 18   | Date of Contract Signing   |
| 19   | Expected Date of Contract Completion   |
| <b>INFORMATION ON CONTRACT AND BENEFICIAL OWNERSHIP</b>  |  |
| 20   | Contract Price   |
| 21   | Name of the Economic Operator (Supplier/Contractor/Service Provider/ Consultant)                   |
| 22   | Tenderer ID of the Economic Operator (If any)  |
| 23   | Name of the Owner/Partners/CEO or MD/ Directors/Shareholders of the Economic Operator (As per NID) |
| 24   | NID Number of the Owner/Partners/ CEO or MD/ Directors/Shareholders of the Economic Operator       |
| 25   | Business Address of the Economic Operator  |
| 26   | Location of Delivery/Goods/Service Delivery  |
| <b>PROCURING ENTITY DETAILS</b>                          |  |
| 27   | Name of Authorized Officer   |
| 28   | Designation of Authorized Officer  |

- Note: 1. For any contract above BDT 10.00 Lac, Information on Beneficial Ownership need to be provided.  
 2. For the purposes of this Form, a Beneficial Owner of a Tenderer or Consultant is any natural person who ultimately owns or controls the Tenderer or Consultant.  
 3. Directors means the members of the Board of Directors for any incorporated body.  
 4. Shareholders are those who have 10% of issued shares for any incorporated body.  
 5. State-Owned Enterprises (SOEs) will be excused from providing such information.

**Format: PG3-D: Acceptance Certificate****LOGO****[Insert Full Contact Details of Issuing Authority]****ACCEPTANCE CERTIFICATE**

Office Memo no: \_\_\_\_\_

Date: \_\_\_\_\_

|    |  |   |  |
|----|--|---|--|
| 01 | Procuring Entity Details                                       |   |  |
|    | (a) Division   | : |  |
|    | (b) Circle/Directorate   | : |  |
|    | (c) Zone/Region  | : |  |
|    | (d) Others ( <i>specify</i> )                                  | : |  |
| 02 | Name of Goods  | : |  |
| 03 | Contract No  | : |  |
| 04 | Contractor's Legal Title                                       | : |  |
| 05 | Contractor's Contact Details                                   | : |  |
| 06 | Contractor's Trade License/Enlistment/Registration Details     | : |  |
| 07 | Reference to NOA with Date                                     | : |  |
| 08 | Original Contract Price as in NOA                              | : |  |
| 09 | Revised Contract Price   |   |  |
| 10 | Final Contract Price as Executed                               | : |  |
|    | Original Contract Period                                       |   |  |
| 11 | (a) Date of Commencement                                       | : |  |
|    | (b) Date of Completion   | : |  |
|    | Actual Delivery Period   |   |  |
| 12 | (a) Date of Actual Commencement                                | : |  |
|    | (b) Date of Actual Completion                                  | : |  |
| 13 | Days/Months Contract Period Extended                           | : |  |
| 14 | Amount of Bonus for Early Completion                           | : |  |
| 15 | Amount of LD for Delayed Completion                            | : |  |
| 16 | Physical Progress in Percent<br>( <i>in terms of value</i> )   | : |  |
| 17 | Financial Progress in Amount<br>( <i>in terms of payment</i> ) | : |  |
| 18 | Special Note ( <i>if any</i> )                                 | : |  |

Certified that the Goods under the Contract has been executed and completed in all respects in strict compliance with the provisions of the Contract including all plans, designs, drawings, specifications and all modifications thereof as per direction and satisfaction of the Project Manager/Engineer-in Charge/Other (*specify*). All defects in workmanship and materials reported during construction have been duly corrected.

\_\_\_\_\_  
Name and Signature of the Issuing Authority with Designation

*please turn over*

**Details of Delivery Completed**

| <b>Contractor: [insert legal title]</b> |                                  |   |
|---|----------------------------------|---|
| <b>No</b>                               | <b>Major Components of Goods</b> | <b>Total Value<br/>(in Contract Currency)</b> |
|   |                                  |   |
|   |                                  |   |

**Subcontractor**

[delete, if not appropriate]

| <b>Subcontractor: [insert legal title]<br/>[delete, if not appropriate]</b> |   |   |
|---|---|---|
| <b>No</b>   | <b>Items/ Components/Activities<br/>[reference drawn to Sub-Contractor Information]</b> | <b>Value<br/>(in Contract Currency)</b> |
|   |   |   |
|   |   |   |

\_\_\_\_\_

**Name and Signature of the Issuing Authority with Designation**