



## **MARSHALLS ENERGY COMPANY INC.**

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### **RESPONSE TO QUESTIONS 01**

|                               |                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------|
| Project Title                 | <b>Design, supply and installation of new Switching Sub-station in Majuro</b>              |
| Source of Funding             | <b>1002/1003 RMI: Energy Transition Project</b>                                            |
| Contract Ref                  | <b>ETP-P1-G-01: Design, supply and installation of new Switching Sub-station in Majuro</b> |
| Date of Issue of Request      | <b>13 June 2025</b>                                                                        |
| Name of Purchaser             | <b>Marshall Energy Company, Inc. (MEC)</b>                                                 |
| Quotation Submission Deadline | <b>5 PM Majuro time on 05 September 2025</b>                                               |

| S.n<br>o           | Question                                                                                                                                                                                       | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |  |  |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |
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| 1                  | <p>Ref: Annex I</p> <p>Requesting if the full SLD for the switching station can be provided, the one provided in Annex I is incomplete-CB15 &amp; CB16 is missing from the table6-2.</p>       | <p>This SLD is indicative the contractor must provide an SLD with all the details. The switchgear has 16 bays and 14 Circuit Breakers, there are no CB15 and CB16, Table 6-2 is correct.</p> <p>The corrected indicative SLD (V1) is attached (Figure 6-1 New Substation 13.8 kV Switchgear Single Line Diagram SLD)</p> <table><thead><tr><th colspan="8">Busbar A 13.8 kV</th><th colspan="8">Busbar B 13.8 kV</th></tr><tr><th>Bay A1</th><th>Bay A2</th><th>Bay A3</th><th>Bay A4</th><th>Bay A5</th><th>Bay A6</th><th>Bay A7</th><th>Bay A8</th><th>Bay B1</th><th>Bay B2</th><th>Bay B3</th><th>Bay B4</th><th>Bay B5</th><th>Bay B6</th><th>Bay B7</th><th>Bay B8</th></tr></thead><tbody><tr><td>CB1</td><td>CB2</td><td>CB3</td><td>CB4</td><td>CB5</td><td>CB6</td><td>CB7</td><td>CB8</td><td>CB15</td><td>CB16</td><td>CB17</td><td>CB18</td><td>CB19</td><td>CB20</td><td>CB21</td><td>CB22</td></tr><tr><td>1,250 A</td><td>1,250 A</td><td>1,250 A</td><td>1,250 A</td><td>1,250 A</td><td>1,250 A</td><td>1,250 A</td><td>1,250 A</td><td>1,250 A</td><td>1,250 A</td><td>1,250 A</td><td>1,250 A</td><td>1,250 A</td><td>1,250 A</td><td>1,250 A</td><td>1,250 A</td></tr><tr><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td></tr><tr><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td><td>Power Plant to Lab</td></tr></tbody></table> <p>Legend: Busbar Disconnect, CT Current Transformer, PT Potential Transformer, Interlocking Switching Substation, Cable Connection</p> | Busbar A 13.8 kV   |                    |                    |                    |                    |                    |                    |                    | Busbar B 13.8 kV   |                    |                    |                    |                    |  |  |  | Bay A1 | Bay A2 | Bay A3 | Bay A4 | Bay A5 | Bay A6 | Bay A7 | Bay A8 | Bay B1 | Bay B2 | Bay B3 | Bay B4 | Bay B5 | Bay B6 | Bay B7 | Bay B8 | CB1 | CB2 | CB3 | CB4 | CB5 | CB6 | CB7 | CB8 | CB15 | CB16 | CB17 | CB18 | CB19 | CB20 | CB21 | CB22 | 1,250 A | 1,250 A | 1,250 A | 1,250 A | 1,250 A | 1,250 A | 1,250 A | 1,250 A | 1,250 A | 1,250 A | 1,250 A | 1,250 A | 1,250 A | 1,250 A | 1,250 A | 1,250 A | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab |
| Busbar A 13.8 kV   |                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                    |                    |                    |                    | Busbar B 13.8 kV   |                    |                    |                    |                    |                    |                    |                    |  |  |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |
| Bay A1             | Bay A2                                                                                                                                                                                         | Bay A3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Bay A4             | Bay A5             | Bay A6             | Bay A7             | Bay A8             | Bay B1             | Bay B2             | Bay B3             | Bay B4             | Bay B5             | Bay B6             | Bay B7             | Bay B8             |  |  |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |
| CB1                | CB2                                                                                                                                                                                            | CB3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CB4                | CB5                | CB6                | CB7                | CB8                | CB15               | CB16               | CB17               | CB18               | CB19               | CB20               | CB21               | CB22               |  |  |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |
| 1,250 A            | 1,250 A                                                                                                                                                                                        | 1,250 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1,250 A            | 1,250 A            | 1,250 A            | 1,250 A            | 1,250 A            | 1,250 A            | 1,250 A            | 1,250 A            | 1,250 A            | 1,250 A            | 1,250 A            | 1,250 A            | 1,250 A            |  |  |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |
| Power Plant to Lab | Power Plant to Lab                                                                                                                                                                             | Power Plant to Lab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab |  |  |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |
| Power Plant to Lab | Power Plant to Lab                                                                                                                                                                             | Power Plant to Lab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab | Power Plant to Lab |  |  |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |
| 2                  | <p>Black start generator is mentioned, however, there is not much detailed technical specifications provided. Requesting if this can be provided.</p>                                          | <p>The black start generator mentioned is not part of this bid.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |  |  |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |
| 3                  | <p>Will SCADA be integrated to the NCC by the contractor? Will the SCADA system monitor all HV breakers and protection relays? Is there any information on the existing SCADA for the PS1?</p> | <p>A1: No, SCADA shall not be integrated by the contractor.</p> <p>A2: Yes, SCADA shall acquire the data from entire MEC power system including distribution network and generation stations, as well as controlling the PS1 and PS2 breakers, VCBs, BESS breakers and at least the breakers of the bigger size PV/wind plants to be installed in future. The local PS1 or PS2 control systems (DCS) are not capable of fulfilling this task since they do not receive/send information/commands to the distribution network. Therefore, the above SCADA system shall communicate to all existing control and monitoring systems, such as PS1-2 DCS, Distribution Network Relay Protection System, Metering System (AMI), PVs, BESS control system (if any) implementing the MEC power system dispatching and EMS functions, e.g. generation-load balance, load shedding, reserve monitoring or AGC. The EMS tasks necessary for MEC power system will be defined later. Initial SCADA system implementation will cover only the core SCADA providing dispatch control.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |  |  |  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |

| S.no | Question                                                                                                                                                                                           | Response                                                                                                                                                                                                                                                                                                                                                                                         |
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|      |                                                                                                                                                                                                    | A3: Yes, some general documentation of SCADA (it would be more correct to call it Plant DCS) is available. See them attached to this file.                                                                                                                                                                                                                                                       |
| 4    | Will the generator be CompA controlled, or PLC controlled?                                                                                                                                         | Generator control systems are not in the scope of this project.                                                                                                                                                                                                                                                                                                                                  |
| 5    | Requesting list of attachments mentioned in Annex II.                                                                                                                                              | Section "22.9 Bid Submittal List" indicates the items that the contractor must provide in addition to all completed Tables (Table 1 through Table 33) with their bid.<br><br>The "List of Attachments" is deleted and Attachments from A to H will not be included.                                                                                                                              |
| 6    | Ref: Annex II<br><br>As per Annex II section 10 no. F- fiber cables to be installed on the premises, will existing cables be used or contractor is to procure new fiber cables.                    | It is assumed that the reference is being made to Fiber indicated in section 21 Telecommunications and Network point F. The contractor must procure new fiber cables.                                                                                                                                                                                                                            |
| 7    | The BESS system specifications outline cooling system, the cooling system applies for outdoor applications while this tender outline that the BESS will be indoors, therefore please clarify this. | The BESS will be placed outdoors, so the cooling system must be designed for the outdoor installation.                                                                                                                                                                                                                                                                                           |
| 8    | Is there any specific requirement for BESS and transformer suppliers?                                                                                                                              | For the BESS the approved Suppliers: ABB, Inc., BYD, CATL, Flexgen Power Systems, Inc., Greensmith Energy Management Systems, Inc, S&C Electric Company, Inc., Samsung, Schneider-Electric USA, Inc , Siemens / Fluence, Sungrow, Tesla, Yunicos, Inc, or at least equivalent.<br><br>For the transformer Suppliers: ABB, SPX, Siemens, Hyundai, SMIT, Prolec GE, Eaton, or at least equivalent. |
| 9    | We have reviewed the specifications provided for the Battery Energy                                                                                                                                | A containerized outdoor installation is anticipated.                                                                                                                                                                                                                                                                                                                                             |

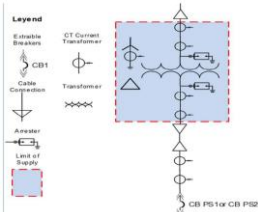
| S.no | Question                                                                                                                                                                                                                                                                                                                                                                                                                                 | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | Storage System (BESS), and could you kindly confirm whether a containerized BESS is required for this project? If so, please note that the typical dimensions for a containerized system appear to exceed the size of the allocated room as per the current design. We would appreciate your clarification on whether the space is flexible or if an alternative arrangement is to be considered, also confirm if the voltage is 480VAC. | <p>The container will be rated NEMA 4x Similar to NEMA 4 but with added corrosion resistance, making it suitable for marine environments or chemical processing plants.</p> <p>NEMA (National Electrical Manufacturers Association) ratings<br/>Self-contained BESS NEMA enclosures are designed to house and protect the BESS and associated equipment within a single unit. They typically integrate thermal management systems and security features for optimal operation and safety.</p> <p>The output voltage of the BESS is 480 V; three phases as indicated in Table 2 BESS Summary of Key Specifications. The BESS will be interconnected to the MEC 13.8 kV distribution network via a step-up transformer.</p> |
| 10   | Requesting extension for this tender as this is a design and built tender thus more time required in engineering. Supply of such as transformers, switchgear needs at least 4 weeks to provide their proposal.                                                                                                                                                                                                                           | Please refer to Addendum 02, the Bid Submission Deadline has been extended to 05 Sept 2025 at 1400 Hours (Majuro time)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 11   | To prepare the bidding docs better, we sincerely hope that you can delay the deadline of this project from Aug 8th to September 8th.                                                                                                                                                                                                                                                                                                     | Please refer to Addendum 02, the Bid Submission Deadline has been extended to 05 Sept 2025 at 1400 Hours (Majuro time)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

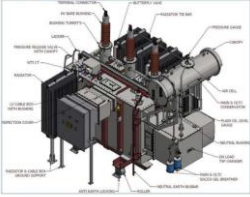
| S.n<br>o | Question                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                  |             |                 |          |   |                                                                                                                          |     |                                                                                  |   |                                                            |     |                                                                                  |   |                                                                            |    |                                      |   |                                                                                        |     |                                                             |   |                                 |    |                                                           |   |                                                                                                                 |   |                                      |   |                                                       |   |                                      |
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| 12       | May I ask whether the contractor's quotation for this project needs to take into account import tariffs, value-added tax of the country where it is located, or any other taxes and fees?                                                                                                                                                                                                                                                                                                           | <p>RMI has an 8% import tax on all products unless they are specifically listed with different rates as per the tax code.<br/><a href="https://rmiparliament.org/cms/images/LEGISLATION/PRINCIPAL/1989/1989-0049/1989-0049_7.pdf">https://rmiparliament.org/cms/images/LEGISLATION/PRINCIPAL/1989/1989-0049/1989-0049_7.pdf</a></p> <p>There are additional port, local government and stevedore charges as below:<br/>-Stevedore fee: CBM * (35.3145/40)* \$6 general cargo, or *\$12 hazardous cargo, or *\$8 loose cargo.<br/>For smaller shipment: KG * (2.2046/2000) * above fees.<br/>The higher fee between kg and cbm will be selected.<br/>-Ports Authority fee: CBM * (35.3145/40)*\$3<br/>For smaller shipment: KG * (2.2/2000) * \$3<br/>The higher fee between kg and cbm will be selected.</p> <p>The bidders are requested to list all import charges/ allowances as a separate line items. This is needed in case the project qualifies as a tax exempt project.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                  |             |                 |          |   |                                                                                                                          |     |                                                                                  |   |                                                            |     |                                                                                  |   |                                                                            |    |                                      |   |                                                                                        |     |                                                             |   |                                 |    |                                                           |   |                                                                                                                 |   |                                      |   |                                                       |   |                                      |
| 13       | <p>Ref: RFP-6<br/>Attachment 1 -1.3<br/>Programme<br/>MILESTONE DATE -<br/>Factory Acceptance<br/>Testing of<br/>Generators<br/>DATE:September<br/>2025</p> <p>The tender requires factory acceptance in September 2025. Currently, the project is still in the tender stage and the effective time of the contract has not been determined. After judgment, this requirement cannot be met. It is suggested that the factory acceptance time be changed to six months after the contract takes</p> | <p>The question does not pertain to this bid. The schedule for this bid is shown in the table below:</p> <table><tr><th>#</th><th>Description</th><th>Duration (days)</th><th>Comments</th></tr><tr><td>1</td><td>Civil Works - Construction of the Substation Building, Cable channels and Isolating Transformer foundations &amp; partitions</td><td>200</td><td>Items #1 and #2 start at the first stage of the project and executed in parallel</td></tr><tr><td>2</td><td>Substation HV/MV equipment procurements incl design phases</td><td>273</td><td>Items #1 and #2 start at the first stage of the project and executed in parallel</td></tr><tr><td>3</td><td>Substation HV/MV equipment Installation, cold commissioning and energizing</td><td>92</td><td>Starting after completion of Item #2</td></tr><tr><td>4</td><td>Protection, Instrument and LAN Equipment for new switchgear and Isolating Transformers</td><td>244</td><td>Can be launched after 90 days from the start of the Item #2</td></tr><tr><td>5</td><td>Move from old to new substation</td><td>85</td><td>Can be launched 30-40 days before finalization of Item #4</td></tr><tr><td>6</td><td>Commissioning and Put in Operation the Protection Relays for Isolating transformers, Incoming Lines and Feeders</td><td>8</td><td>Starting after completion of Item #5</td></tr><tr><td>7</td><td>Integration of new substation protections in the PMAC</td><td>7</td><td>Starting after completion of Item #6</td></tr></table> | #                                                                                | Description | Duration (days) | Comments | 1 | Civil Works - Construction of the Substation Building, Cable channels and Isolating Transformer foundations & partitions | 200 | Items #1 and #2 start at the first stage of the project and executed in parallel | 2 | Substation HV/MV equipment procurements incl design phases | 273 | Items #1 and #2 start at the first stage of the project and executed in parallel | 3 | Substation HV/MV equipment Installation, cold commissioning and energizing | 92 | Starting after completion of Item #2 | 4 | Protection, Instrument and LAN Equipment for new switchgear and Isolating Transformers | 244 | Can be launched after 90 days from the start of the Item #2 | 5 | Move from old to new substation | 85 | Can be launched 30-40 days before finalization of Item #4 | 6 | Commissioning and Put in Operation the Protection Relays for Isolating transformers, Incoming Lines and Feeders | 8 | Starting after completion of Item #5 | 7 | Integration of new substation protections in the PMAC | 7 | Starting after completion of Item #6 |
| #        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Duration (days)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Comments                                                                         |             |                 |          |   |                                                                                                                          |     |                                                                                  |   |                                                            |     |                                                                                  |   |                                                                            |    |                                      |   |                                                                                        |     |                                                             |   |                                 |    |                                                           |   |                                                                                                                 |   |                                      |   |                                                       |   |                                      |
| 1        | Civil Works - Construction of the Substation Building, Cable channels and Isolating Transformer foundations & partitions                                                                                                                                                                                                                                                                                                                                                                            | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Items #1 and #2 start at the first stage of the project and executed in parallel |             |                 |          |   |                                                                                                                          |     |                                                                                  |   |                                                            |     |                                                                                  |   |                                                                            |    |                                      |   |                                                                                        |     |                                                             |   |                                 |    |                                                           |   |                                                                                                                 |   |                                      |   |                                                       |   |                                      |
| 2        | Substation HV/MV equipment procurements incl design phases                                                                                                                                                                                                                                                                                                                                                                                                                                          | 273                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Items #1 and #2 start at the first stage of the project and executed in parallel |             |                 |          |   |                                                                                                                          |     |                                                                                  |   |                                                            |     |                                                                                  |   |                                                                            |    |                                      |   |                                                                                        |     |                                                             |   |                                 |    |                                                           |   |                                                                                                                 |   |                                      |   |                                                       |   |                                      |
| 3        | Substation HV/MV equipment Installation, cold commissioning and energizing                                                                                                                                                                                                                                                                                                                                                                                                                          | 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Starting after completion of Item #2                                             |             |                 |          |   |                                                                                                                          |     |                                                                                  |   |                                                            |     |                                                                                  |   |                                                                            |    |                                      |   |                                                                                        |     |                                                             |   |                                 |    |                                                           |   |                                                                                                                 |   |                                      |   |                                                       |   |                                      |
| 4        | Protection, Instrument and LAN Equipment for new switchgear and Isolating Transformers                                                                                                                                                                                                                                                                                                                                                                                                              | 244                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Can be launched after 90 days from the start of the Item #2                      |             |                 |          |   |                                                                                                                          |     |                                                                                  |   |                                                            |     |                                                                                  |   |                                                                            |    |                                      |   |                                                                                        |     |                                                             |   |                                 |    |                                                           |   |                                                                                                                 |   |                                      |   |                                                       |   |                                      |
| 5        | Move from old to new substation                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Can be launched 30-40 days before finalization of Item #4                        |             |                 |          |   |                                                                                                                          |     |                                                                                  |   |                                                            |     |                                                                                  |   |                                                                            |    |                                      |   |                                                                                        |     |                                                             |   |                                 |    |                                                           |   |                                                                                                                 |   |                                      |   |                                                       |   |                                      |
| 6        | Commissioning and Put in Operation the Protection Relays for Isolating transformers, Incoming Lines and Feeders                                                                                                                                                                                                                                                                                                                                                                                     | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Starting after completion of Item #5                                             |             |                 |          |   |                                                                                                                          |     |                                                                                  |   |                                                            |     |                                                                                  |   |                                                                            |    |                                      |   |                                                                                        |     |                                                             |   |                                 |    |                                                           |   |                                                                                                                 |   |                                      |   |                                                       |   |                                      |
| 7        | Integration of new substation protections in the PMAC                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Starting after completion of Item #6                                             |             |                 |          |   |                                                                                                                          |     |                                                                                  |   |                                                            |     |                                                                                  |   |                                                                            |    |                                      |   |                                                                                        |     |                                                             |   |                                 |    |                                                           |   |                                                                                                                 |   |                                      |   |                                                       |   |                                      |

| S.no | Question                                                                                                                                                                                                                                          | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                             |  |  |  |  |  |  |  |                 |     |                             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--|--|--|--|--|--|--|-----------------|-----|-----------------------------|
|      | effect. Similarly, are the dates of other milestones postponed simultaneously?                                                                                                                                                                    | <table><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td>Overall Project</td><td>361</td><td>Total duration of items 1-7</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                             |  |  |  |  |  |  |  | Overall Project | 361 | Total duration of items 1-7 |
|      |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |  |  |  |  |  |  |  |                 |     |                             |
|      | Overall Project                                                                                                                                                                                                                                   | 361                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Total duration of items 1-7 |  |  |  |  |  |  |  |                 |     |                             |
| 14   | Preferred Manufacturers<br>Are there any preferred or approved makes or manufacturers for major equipment such as BESS units, transformers, and protection relays?                                                                                | <p>Preferred/approved suppliers:</p> <p>BESS system: ABB, Inc., BYD, CATL, Flexgen Power Systems, Inc., Greensmith Energy Management Systems, Inc, S&amp;C Electric Company, Inc., Samsung, Schneider-Electric USA, Inc , Siemens / Fluence, Sungrow, Tesla, Yunicos, Inc, or at least equivalent.</p> <p>Transformers: ABB, SPX, Siemens, Hyundai, SMIT, Prolec GE, Eaton, or at least equivalent.</p> <p>Protective Relays: SEL, GE, Siemens, Eaton or at least equivalent.</p> <p>Medium Voltage Switchgear: ABB, Siemens, Eaton, Schneider Electric, S&amp;C Electric Company, Powell, or at least equivalent.</p> <p>MV Cable: General Cable, Prysmian, Synergy, Southwire, WTEC, or at least equivalent.</p> <p>Auxiliary Relays: Allen-Bradley, Cutler-Hammer, General Electric, Potter-Brumfield, or at least equivalent.</p> <p>Substation P&amp;C Battery: C&amp;D, GNB, Exide, BAE, Varta, or at least equivalent.</p> <p>Battery Charger: Exide, Ametek, or at least equivalent.</p> |                             |  |  |  |  |  |  |  |                 |     |                             |
| 15   | As per the specification, both ANSI and IEC standards have been referenced for the design of the isolation transformer. To proceed with a consistent and compliant design, we request your confirmation on the following: Whether the transformer | Both standards are acceptable. Contractor is free to follow either ANSI or IEC standard.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                             |  |  |  |  |  |  |  |                 |     |                             |

| S.no | Question                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Response                                                                                                                                                                           |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | shall be designed entirely as per IEC standards with 60 Hz frequency (including all fittings and accessories as per IEC), or as per ANSI standards.                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                    |
| 16   | <p>As per the specification, the Primary (X) is connected in Delta as the input, and the Secondary (H) is in Star (Wye) as the output. In Table 6.1, the Secondary (H) voltage is indicated as: <math>13.8 \times (1.05) = 14.49</math> kV Grid Wye</p> <p>We would like to confirm the following:</p> <ul style="list-style-type: none"> <li>Does the multiplication factor of 1.05 represent the maximum tapping range?</li> <li>Is the tap changer to be provided on the Secondary (H) side? As per standard practice, tapping is generally provided on the Input (Primary)</li> </ul> | <ul style="list-style-type: none"> <li>YES</li> <li>Provide tapping on input or Primary (X) side. The nominal voltage maintained on Secondary (H) side must be 13.8 kV.</li> </ul> |

| S.no | Question                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Response                                                                                                                                                                                                                                                                                                                             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <p>side to maintain a fixed output voltage. Please clarify</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                      |
| 17   | <p>As per Mail description mentioned 20 MVA ONAN (Fans Optional ) but in specification mentioned ONAN / ONAF and reference GA Drawing suitable ONAN Cooling only. 5.05.01 "The transformer should use thermally upgraded insulation and be dual rated for both 55°C and 65°C rise. The transformer nameplate shall indicate both capacity ratings". 5.05.02 "The kVA capability of the transformer at a 65 degrees Centigrade rise shall be 112% of the 55 degrees Centigrade rise rating". 5.04.05, "Winding losses shall be quoted at 100% of the 55°C self-cooled rating corrected to 85°C average winding temperature and shall be the average of the losses at neutral, 15 raise and 16 raise, 15</p> | <p>For 20MVA ONAN the transformer shall be 20MVA at 55°C and 22.5MVA at 65 °C.<br/>For 20 MVA ONAF transformer: The cooling system should automatically turn ON at a temperature of 55 °C or at a current equal to the nominal. OFF conditions: when the temperature drops to 50 °C and if the current is less than the nominal.</p> |

| S.no | Question                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Response                                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <p>lower, and 16 lower". On the basis of the above clauses, what we understand that a) If the requirement is 20MVA ONAN (without ONAF) then 20MVA at 55degree and 22.5MVA at 65 degree OR 17.75MVA at 55degree and 20MVA at 65 degree b) Is the ONAF is applicable at 65 degree? b) If ONAF is applicable, please clarify the MVA rating of the the transformer under both condition of ONAN &amp; ONAF and also specified the temperature rise under both condition</p> |                                                                                                                                                                           |
| 18   | <p>CT's and Arrestors our scope of supply as per below photo. please clarify</p>                                                                                                                                                                                                                                                                                                      | <p>Built-in CTs are mentioned here. Arrestors are not part of the transformer kit. Therefore, CTs are included in the scope, arrestors are not included in the scope.</p> |
| 19   | <p>As per specification required off circuit tap changer (+5%, + 2.5%, 0%, - 2.5%, - 5%) but reference drawing available</p>                                                                                                                                                                                                                                                                                                                                             | <p>The transformers shall be with on-load tap changer (OLTC).</p>                                                                                                         |

| S.no | Question                                                                                                                                                                                                                                                                                                    | Response                                                                                                                                                                                                                                                                                                                  |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | with OLTC but as per specification cl no : 6.6 Mentioned OFTC                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                           |
| 20   | <p>Note: By the way, the given drawing does not represent the Isolation Transformer of similar capacity with same voltage class. We think this is for reference purpose only. please clarify.</p>                          | The drawing is for reference only.                                                                                                                                                                                                                                                                                        |
| 21   | As per table 6.1, the winding BIL is 150 kVp, while as per ANSI standard, the winding BIL is 95kVp as per 13.8kV Class Transformer, So, please clarify the Winding BIL Level. It will help us to decide the HV bushing of 24kV Class or 36kV Class as per IEC Standard and 15kV Class as per ANSI Standard. | The Bidder is free to use either ANSI or IEC standard.                                                                                                                                                                                                                                                                    |
| 22   | As per clause no. 7.01.07, All bushings shall be manufactured by ABB type "O Plus C", and have C1 and C2 test taps. C1 power factor shall not exceed 0.5% and                                                                                                                                               | It may be manufactured by another company, but it must comply with standards IEEE C57 19.01 IEEE Standard Performance Characteristic and Dimensions for Outdoor Apparatus Bushings. With regard to measurement taps C1 and C2, the C1 power factor must not exceed 0.5% and the C2 Capacitance factor must not exceed 1%. |

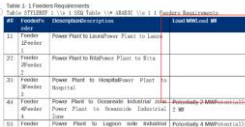
| S.no | Question                                                                                                                                                                                                                                            | Response                                               |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
|      | the C2 power factor shall not exceed 1%. Test results shall be recorded as referenced in specification item 9.01.01 paragraph m. Do you have any reference of this type of bushings? Please share the detail and drawing for the reference purpose. |                                                        |
| 23   | Pour Point of the transformer oil is < - 40o C max, we have the consider the oil as per ANSI / IEC Standard.                                                                                                                                        | The Bidder is free to use either ANSI or IEC standard. |
| 24   | As per spec, the surge arrestors required from Hubbel make only. The alternate make would be acceptable?                                                                                                                                            | Alternative make is acceptable.                        |
| 25   | All bushings shall be manufactured by ABB type "O Plus C", The alternate make would be acceptable?                                                                                                                                                  | Alternative make is acceptable.                        |
| 26   | Sudden pressure relay required from qualitrol make. The alternate make would be acceptable?                                                                                                                                                         | Alternative make is acceptable.                        |
| 27   | Not limited to the aforementioned three fittings, all the fittings shall be as per IEC Standard with the alternate                                                                                                                                  | The Bidder is free to use either ANSI or IEC standard. |

| S.no | Question                                                                                                                                                                                                                                                                                                                                                           | Response                                                                                                                                                                                                                                                                                                                                                                                                         |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | makes. please clarify.                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 28   | <p>required feeder connections.</p> <p>In Annex VII, the schematic diagram shows connections to only Feeder 1, 2, and 3, whereas Annex I depicts a switchgear configuration with 10 feeders. Could you please confirm whether the scope of connection is required for all 10 feeders, or only for Feeders 1 to 3 as shown in the schematic given in Annex VII?</p> | <p>The switchgear shall be provided for 10 feeders as per Annex I considering new upcoming feeders and the reserve for future development of the power network. The new feeders project will not be completed before implementation/completion of this project. Therefore, only 3 feeders are required to connect to the switchgear, as well as sectionalizing breakers A&amp;B, incomers and measuring VTs.</p> |
| 29   | <p>IP rating for Switchgear Vent Panel</p> <p>After factory checking the specification, switchgear cannot meet IP54 for circuit breaker at the incoming panels. Because they are air insulated switchgear then the maximum IP can reach is IP4X. Could you please confirm if IP4X is acceptable?</p>                                                               | <p>Ingress protection of IP54 or higher is required given Majuro's environment. MEC is open to alternative measures that provide similar or higher levels of ingress protection.</p>                                                                                                                                                                                                                             |
| 30   | <p>To ensure we submit a comprehensive and competitive bid for</p>                                                                                                                                                                                                                                                                                                 | <p>Please refer to Addendum 02, the Bid Submission Deadline has been extended to 05 Sept 2025 at 1400 Hours (Majuro time)</p>                                                                                                                                                                                                                                                                                    |

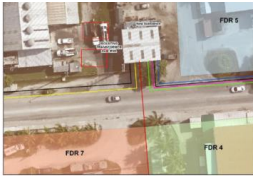
| S.no | Question                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Response                                                |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
|      | <p>the Majuro switching sub-station project, we respectfully request a 30-day extension to the bid submission deadline, until 5 October 2025. This additional time will enable us to prepare a proposal that fully aligns with the project's requirements.</p>                                                                                                                                                                                                                                                                                             |                                                         |
| 31   | <p>The tender document mentions a "grid-connected lithium-ion battery system" in the BESS system, but it does not specify the type of lithium-ion battery. There are various types of lithium-ion batteries, including 1. Lithium iron phosphate battery (LFP), 2. Lithium nickel manganese cobalt oxide battery (NMC/NCA), 3. Lithium cobalt oxide battery (LCO), 4. Lithium manganese oxide battery (LMO), and 5. Lithium titanate battery (LTO). Conventional BESS systems typically use lithium iron phosphate batteries. Is it acceptable for the</p> | <p>Yes, Lithium Iron Phosphate (LFP) is acceptable.</p> |

| S.no | Question                                                                                                                                                                                                                                                                                                                                                                                                              | Response                                                                                                       |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
|      | <p>BESS system to use lithium iron phosphate batteries?</p>                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                |
| 32   | <p>The single-line diagram of BESS in the tender documents is as follows:</p> <p>1.2 Single Line Diagram</p> <p>According to the BESS single-line diagram in the tender documents, our understanding is that the BESS energy storage system is connected to the CB6 cabinet (the position marked in blue) after passing through the medium-voltage transformer. However, the CB6 cabinet is a feeder cabinet that</p> | <p>The BESS can be connected to one of the spare Bays 5-7 with the corresponding circuit breakers CB11-13.</p> |

| S.no | Question                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Response                                                                               |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|      | <p>supplies power to the Lagoonside Industrial Zone, which is obviously problematic.</p> <p>Could the BESS be connected to the spare feeder cabinets CB11, CB12, and CB13? We have noticed that CB11, CB12, and CB13 are spare feeder cabinets reserved for future line expansion. If the energy storage output line is not allowed to be connected to these three spare feeder cabinets, we plan to add a new energy storage connection cabinet, which will be arranged in parallel with the A or B busbar. Is the addition of a new energy storage connection cabinet acceptable?</p> |                                                                                        |
| 33   | <p>The tender document mentions 100% DOP. We need to clarify whether this 100% DOP is just a conceptual definition? Or does it mean that the discharge depth of the lithium battery should be 100%? Generally, the</p>                                                                                                                                                                                                                                                                                                                                                                  | <p>Please follow the general requirements/definitions for the Lithium Battery DOP.</p> |

| S.no | Question                                                                                                                                                                                                                                                                                                                                              | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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|      | <p>discharge depth of a lithium battery is more than 90%, but it will not reach 100%. Discharging to 100% has an impact on the lifespan of the lithium battery. Or are there any specific requirements for the discharge depth of the lithium battery?</p> <p>  </p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 34   | <p>Clarification required for power distribution:<br/>MEC requirements<br/>Table 11 Feeders Requirements Laura、Rita、Hospital<br/>Potentially, the load is not specified.</p> <p>  </p>                                                                             | <p>Peak Load for the feeders required:<br/>Feeder 1= 3,500 kW<br/>Feeder 2= 5,000 kW<br/>Feeder 3= 1,500 kW<br/>Total = 10,000 kW</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 35   | <p>Ref: Annex I - New Switching Station<br/>Spec_6、 New Substation 13.8 kV Switchgear.<br/><br/>Annex I - New Switching Station<br/>Spec_6、 New Substation 13.8 kV Switchgear.The main circuit breaker for the incoming</p>                                                                                                                           | <p>The circuit breakers tying PS1 or PS2 buses to the Substation bus are 1250 A on the PS1/PS2 bus side.<br/>The circuit breakers tying PS1 or PS2 buses to the Substation bus shall be 1250 A on the Substation bus side. These circuit breakers are mentioned as incomer 1/CB7 and Incomer 2/CB14 in the Table 6-1/6-2.<br/>The circuit breakers sectionalizing Busbar A and Busbar B in the Substation shall be 1250 A. These circuit breakers are mentioned as Breaker A/CB1 and Breaker B/CB8 in Table 6-1/6-2.<br/>The circuit breakers for the Feeders 1-10 shall be 630 A size.</p> |



| S.n<br>o | Question                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Response                                                                                                                                                                             |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | <p>confirm whether a new installation is required.</p> <p>交流配电</p> <p>The function of the AC Station Supply System is to feed the auxiliary equipment as well as the lighting and power for other services on the station AC loads.</p> <p>交流配电柜为站内辅助设备及照明提供电源，并为站用电系统提供电源。</p> <p>The AC Station also provides the following outputs:</p> <p>交流配电柜提供以下输出：</p> <p>1. 交流配电柜为站内辅助设备及照明提供电源。</p> <p>2. 交流配电柜为站用电系统提供电源。</p> <p>3. 交流配电柜为站用电系统提供电源。</p> <p>4. 交流配电柜为站用电系统提供电源。</p> <p>5. 交流配电柜为站用电系统提供电源。</p> <p>6. 交流配电柜为站用电系统提供电源。</p> <p>7. 交流配电柜为站用电系统提供电源。</p> <p>8. 交流配电柜为站用电系统提供电源。</p> <p>9. 交流配电柜为站用电系统提供电源。</p> <p>10. 交流配电柜为站用电系统提供电源。</p> <p>11. 交流配电柜为站用电系统提供电源。</p> <p>12. 交流配电柜为站用电系统提供电源。</p> <p>13. 交流配电柜为站用电系统提供电源。</p> <p>14. 交流配电柜为站用电系统提供电源。</p> <p>15. 交流配电柜为站用电系统提供电源。</p> <p>16. 交流配电柜为站用电系统提供电源。</p> <p>17. 交流配电柜为站用电系统提供电源。</p> <p>18. 交流配电柜为站用电系统提供电源。</p> <p>19. 交流配电柜为站用电系统提供电源。</p> <p>20. 交流配电柜为站用电系统提供电源。</p> <p>21. 交流配电柜为站用电系统提供电源。</p> <p>22. 交流配电柜为站用电系统提供电源。</p> <p>23. 交流配电柜为站用电系统提供电源。</p> <p>24. 交流配电柜为站用电系统提供电源。</p> <p>25. 交流配电柜为站用电系统提供电源。</p> <p>26. 交流配电柜为站用电系统提供电源。</p> <p>27. 交流配电柜为站用电系统提供电源。</p> <p>28. 交流配电柜为站用电系统提供电源。</p> <p>29. 交流配电柜为站用电系统提供电源。</p> <p>30. 交流配电柜为站用电系统提供电源。</p> <p>31. 交流配电柜为站用电系统提供电源。</p> <p>32. 交流配电柜为站用电系统提供电源。</p> <p>33. 交流配电柜为站用电系统提供电源。</p> <p>34. 交流配电柜为站用电系统提供电源。</p> <p>35. 交流配电柜为站用电系统提供电源。</p> <p>36. 交流配电柜为站用电系统提供电源。</p> <p>37. 交流配电柜为站用电系统提供电源。</p> <p>38. 交流配电柜为站用电系统提供电源。</p> <p>39. 交流配电柜为站用电系统提供电源。</p> <p>40. 交流配电柜为站用电系统提供电源。</p> <p>41. 交流配电柜为站用电系统提供电源。</p> <p>42. 交流配电柜为站用电系统提供电源。</p> <p>43. 交流配电柜为站用电系统提供电源。</p> <p>44. 交流配电柜为站用电系统提供电源。</p> <p>45. 交流配电柜为站用电系统提供电源。</p> <p>46. 交流配电柜为站用电系统提供电源。</p> <p>47. 交流配电柜为站用电系统提供电源。</p> <p>48. 交流配电柜为站用电系统提供电源。</p> <p>49. 交流配电柜为站用电系统提供电源。</p> <p>50. 交流配电柜为站用电系统提供电源。</p> <p>51. 交流配电柜为站用电系统提供电源。</p> <p>52. 交流配电柜为站用电系统提供电源。</p> <p>53. 交流配电柜为站用电系统提供电源。</p> <p>54. 交流配电柜为站用电系统提供电源。</p> <p>55. 交流配电柜为站用电系统提供电源。</p> <p>56. 交流配电柜为站用电系统提供电源。</p> <p>57. 交流配电柜为站用电系统提供电源。</p> <p>58. 交流配电柜为站用电系统提供电源。</p> <p>59. 交流配电柜为站用电系统提供电源。</p> <p>60. 交流配电柜为站用电系统提供电源。</p> <p>61. 交流配电柜为站用电系统提供电源。</p> <p>62. 交流配电柜为站用电系统提供电源。</p> <p>63. 交流配电柜为站用电系统提供电源。</p> <p>64. 交流配电柜为站用电系统提供电源。</p> <p>65. 交流配电柜为站用电系统提供电源。</p> <p>66. 交流配电柜为站用电系统提供电源。</p> <p>67. 交流配电柜为站用电系统提供电源。</p> <p>68. 交流配电柜为站用电系统提供电源。</p> <p>69. 交流配电柜为站用电系统提供电源。</p> <p>70. 交流配电柜为站用电系统提供电源。</p> <p>71. 交流配电柜为站用电系统提供电源。</p> <p>72. 交流配电柜为站用电系统提供电源。</p> <p>73. 交流配电柜为站用电系统提供电源。</p> <p>74. 交流配电柜为站用电系统提供电源。</p> <p>75. 交流配电柜为站用电系统提供电源。</p> <p>76. 交流配电柜为站用电系统提供电源。</p> <p>77. 交流配电柜为站用电系统提供电源。</p> <p>78. 交流配电柜为站用电系统提供电源。</p> <p>79. 交流配电柜为站用电系统提供电源。</p> <p>80. 交流配电柜为站用电系统提供电源。</p> <p>81. 交流配电柜为站用电系统提供电源。</p> <p>82. 交流配电柜为站用电系统提供电源。</p> <p>83. 交流配电柜为站用电系统提供电源。</p> <p>84. 交流配电柜为站用电系统提供电源。</p> <p>85. 交流配电柜为站用电系统提供电源。</p> <p>86. 交流配电柜为站用电系统提供电源。</p> <p>87. 交流配电柜为站用电系统提供电源。</p> <p>88. 交流配电柜为站用电系统提供电源。</p> <p>89. 交流配电柜为站用电系统提供电源。</p> <p>90. 交流配电柜为站用电系统提供电源。</p> <p>91. 交流配电柜为站用电系统提供电源。</p> <p>92. 交流配电柜为站用电系统提供电源。</p> <p>93. 交流配电柜为站用电系统提供电源。</p> <p>94. 交流配电柜为站用电系统提供电源。</p> <p>95. 交流配电柜为站用电系统提供电源。</p> <p>96. 交流配电柜为站用电系统提供电源。</p> <p>97. 交流配电柜为站用电系统提供电源。</p> <p>98. 交流配电柜为站用电系统提供电源。</p> <p>99. 交流配电柜为站用电系统提供电源。</p> <p>100. 交流配电柜为站用电系统提供电源。</p> |                                                                                                                                                                                      |
| 37       | <p>Is it necessary to rebalance the loads of busbar A and busbar B? Does the energy storage connection require the addition of an access cabinet?</p> <p>NEW SUBSTATION 13.8 KV SWITCHGEAR</p> <p>新建变电站 13.8 KV 开关柜设备</p> <p>The proposed new switching station will have two feeders A and B. Table 6-1 and Table 6-2 outline the station layout and connections as well as space for future equipment.</p> <p>新建变电站将有两个馈线 A 和 B。表 6-1 和表 6-2 概述了变电站的布局、连接以及未来设备的空间。</p> <p>Due to the layout of the existing land development, the participant will be in two sections: Section A and Section B. Section A will be located on the left side of the site, and Section B will be located on the right side of the site.</p> <p>由于现有土地开发的布局，参与者将在两个部分：A 部分和 B 部分。A 部分将位于场地的左侧，而 B 部分将位于场地的右侧。</p> <p>Section A will be located on the left side of the site, and Section B will be located on the right side of the site.</p> <p>A 部分将位于场地的左侧，而 B 部分将位于场地的右侧。</p> <p>The location of the new switching station will be determined by the participant.</p> <p>新开关站的位置将由参与者确定。</p> <p>Table 6-1: Table of Feeders A and B. Table 6-2: Table of Feeders A and B.</p> <p>表 6-1：馈线 A 和 B 的表格。表 6-2：馈线 A 和 B 的表格。</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | BESS does not require additional connection.                                                                                                                                         |
| 38       | <p>Please provide a detailed floor plan with red lines, and check whether the positions of the two isolation transformers obstruct the factory entrances and exits.</p>  <p>Figure 1-1: New Substation. Figure 1-2: New Substation. Figure 1-3: New Substation.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | The bird view shows the current layout of the power plant site, which is undergoing reconstruction. By the time of installation, the transformers will not obstruct the plant gates. |
| 39       | <p>Does each area have only one cable outlet? For example, in the Annex I - New Switching Station Spec schematic diagram (Figure 1-3 Feeders 4 and 5), the 5th area has 3 circuits that go to 3 different directions.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Each HV Feeder has only one outlet from the substation. Feeder 5 branches out as shown schematically in the figure.                                                                  |

| S.no | Question                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 40   | <p>Ref: Plant 1S2E<br/>Section 4 MEC ETP<br/>Pkg02 Jun2025</p> <p>In Plant 1S2E<br/>Section 4 MEC ETP<br/>Pkg02 Jun2025,<br/>there is 1 220-volt<br/>DC distribution<br/>panel and 1 low-<br/>voltage distribution<br/>panel. Should we<br/>add 1 277-volt AC<br/>distribution panel, 1<br/>110-volt DC<br/>distribution panel,<br/>and 1 48-volt DC<br/>distribution panel?</p>  | <p>DC system of the substation must be 110 V according to the Annex VI Battery &amp; ACDC Board.</p> <p>48 V DC system including batter/rectifier, distribution board etc. included in the 48V DC system shall not be provided in this project.</p> <ul style="list-style-type: none"> <li>• <b>Correction</b> to the Plant 1S2E Section 4 MEC ETP Pkg02 Jun2025: 110 VDC shall be specified instead of 220VDC.</li> <li>• <b>Correction</b> to the Annex VI Battery &amp; ACDC Board, Chapter 2, DC Systems: (via two Ni-Cd for 48 V) removed.</li> </ul> |
| 41   | <p>Material list: Battery 110V, 100Ah.<br/>Considering an accident duration of 12 hours, it is recommended to use a battery with a capacity of 200Ah.</p> <p>Material list: Is it necessary to add an UPS power supply for the battery to be</p>                                                                                                                                                                                                                     | <p>Agreed, bidder may use a battery with a capacity of 200Ah.</p> <p>The question is not clear. If we understand it correctly, the Bidder proposes to guarantee reliable power supply for the Fire Control System by connecting it to the batteries.<br/>AC supply for the Fire Control System shall be taken from Substation AC Distribution Board. Or from 0.4 kV Auxiliary power board of the PS1</p>                                                                                                                                                   |

| S.no | Question                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Response                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | used with the fire control console?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | which is provided by the Diesel Generator in case of the plant aux power failure or black out. See corresponding drawing in Annex VII Attachment 1 MV, LV Power Cable.                                                                                                                                                                                                                                                                    |
| 42   | <p>Ref: Annex V</p> <p>Annex V: Relay and Communication Network for Protection System</p> <p>The protection system in the substation is equipped with synchronous condensers. It is necessary to confirm whether this is within the scope of the current project.</p> <p>• New QCB and VCB for existing feeders and the new switchgear.<br/> (新QCBとVCBは既存のフィーダーと新しいスイッチギアに対して)</p> <p>Protection relays shall be provided for the substation feeders and bus incoming lines, as well as for the outgoing lines, including synchronous condensers, battery charging system, synchronous motor and other equipment connected to the busbar.<br/> (保護リレーは、変電所のフィーダーとバス受入線、および送電線、同期凝縮機、バッテリー充電システム、同期電動機、および他のバスバーに接続された機器に対して提供されるべきである。)</p>                                                                                                                                                                                                                                  | Synchronous condensers are not included in the scope.                                                                                                                                                                                                                                                                                                                                                                                     |
| 43   | <p>The GPS device is installed in the switch cabinet. Considering that the relay protection device for this switch is installed within the switch cabinet, it is recommended that the GPS device be placed in a separate screen.</p> <p>• Also to compensate the propagation delay in the external cable.<br/> (外部ケーブルの伝播遅延を補償するためにも)</p> <p>GPS clocks shall be installed in the cabinets for VCBs and shall be provided as a basic requirement for installation in the feeders and incomers switchboard.<br/> (VCBのキャビネットにGPSクロックをインストールし、フィーダーとインコマースイッチボードのインストールのための基本的な要件として提供されるべきである。)</p> <p>Installation of antenna and corresponding optical cable is included.<br/> (アンテナと対応する光ケーブルのインストールは含まれます。)</p> <p>GPS clocks with synchronization over network functionality (NTP) shall be considered for the substation equipment, where necessary and requested with master clock.<br/> (ネットワーク機能 (NTP) を介した同期機能を持つGPSクロックは、変電所設備、必要に応じてマスタークロックと連携して考慮されるべきである。)</p> | <p>Annex V Relays and Communication Network for Protection System</p> <p>the statement below:</p> <p>“GPS clocks shall be installed in the cabinets for VCBs and shall be provided as a loose equipment for installation in the feeders and incomers switchboard.”</p> <p>is removed since it is irrelevant for this project.</p>                                                                                                         |
| 44   | <p>Connect the protection relay to the power plant monitoring system. Please verify if the switch interface on the power plant</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>The PMAC mentioned here is not a plant process monitoring &amp; control system. This is Process Monitoring &amp; Control Controller supervising the protection relays of the substation and at the feeder 1-3 VCBs. This system collects data, messages/alarms of the protection relays of above area and sends out remote control commands to the VCBs and substation breakers. This is the existing PMAC based on SEL-3555 RTAC.</p> |



| S.no | Question                                                                                                                                                                                                                   | Response                                                                    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|      | <p>Environmental, Health and Safety Aspect</p> <p>It states that the criteria is Not Applicable thus Form EXP-3 is not required to be filled. Please confirm if this is the case.</p>                                      |                                                                             |
| 49   | <p>Ref: Section 3, Clause 2.5.1 Environmental, Health and Safety Certification.</p> <p>It states that the criteria is Not Applicable thus Form EXP-4 is not required to be filled. Please confirm if this is the case.</p> | Confirmed, Form EXP-4 is not required.                                      |
| 50   | <p>Ref: Section 3, Clause 2.5.3 Environmental, Health and Safety Dedicated Personnel</p> <p>Can external consultants qualify as availability of dedicated Environmental Specialist and Health and Safety Specialist.</p>   | No. In-house experts from the prime or JV/consortium must fill these roles. |
| 51   | <p>Ref: Section 4, Technical Proposal, there is sub heading Plant and Equipment</p>                                                                                                                                        | For the purpose of this bid only details of equipment are needed.           |

| S.no | Question                                                                                                                                                                                                                               | Response                                                                                                                                                |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <p>It is clear from the documents that under sub heading equipment, bidder is to fill in the provided forms for the equipment that will be used on site. Please can you clarify what needs to be provided under sub heading Plant.</p> |                                                                                                                                                         |
| 52   | <p>Ref: Section 4, Technical Proposal</p> <p>Please clarify under which sub heading in Technical Proposal of Section 4, shall the Merit Point Criteria (as per Section 3) details to be provided.</p>                                  | <p>The question is not clear. The bidder does not need to provide details on MPC. MEC will use the MPC criteria to evaluate the technical proposal.</p> |