

## **Appendix A – Lot 1 - Specification + Compliance Schedule**

### **1. Lot 1 - Scope of Supply**

The successful tenderer shall supply, deliver, commission and provide operator familiarisation for one (1) Mobile Battery Energy Storage and EV Charging Unit in accordance with the requirements set out in this specification.

For guidance purposes, the Contracting Entity's operational requirement is based on a mobile battery energy storage and EV charging unit equivalent in capability and performance to a 217kWh mobile battery energy storage system with integrated EV charging functionality, or approved equivalent.

The tendered price shall include, as a minimum:

- Supply of the complete unit
- Delivery to Kilduff Construction, County Roscommon, Ireland (or nominated location)
- Pre-delivery inspection and testing
- Commissioning and demonstration of operation
- Operator familiarisation and basic training
- User manuals and technical documentation in English
- Declaration of Conformity and CE certification documentation
- Warranty support
- Any cables, connectors, chargers, mounting systems or ancillary equipment necessary for normal operation
- Software licences required for operation, if applicable

**Lot 1 - Supply and Delivery of Mobile Battery Energy Storage &  
EV Charging Unit**

**2. Minimum Technical Specification**

| Ref | Requirement                        | Min Requirements                           | Tender Response |
|-----|------------------------------------|--------------------------------------------|-----------------|
| A1  | Battery Technology                 | Lithium Iron Phosphate (LFP) or equivalent |                 |
| A2  | Usable Battery Capacity            | Minimum 200kWh                             |                 |
| A3  | Battery Life                       | Minimum 3,500 cycles                       |                 |
| A4  | DC EV Charging Output              | Minimum 180kW total output                 |                 |
| A5  | Charging Standard                  | CCS2                                       |                 |
| A6  | Charging Connectors                | Minimum 2 No. DC fast charge connectors    |                 |
| A7  | AC Output                          | Minimum 100kW                              |                 |
| A8  | AC Voltage                         | 400V Three Phase                           |                 |
| A9  | Cooling System                     | Liquid Cooled                              |                 |
| A10 | Remote Monitoring                  | Required                                   |                 |
| A11 | OCPP Compatibility                 | Required; OCPP 1.6 or later                |                 |
| A12 | Emergency Stop                     | Required                                   |                 |
| A13 | Operating Temperature              | Suitable for outdoor operation             |                 |
| A14 | CE Compliance                      | Required                                   |                 |
| A15 | Warranty                           | Minimum 24 Months                          |                 |
| A16 | AC Socket Provision                | Suitable for site power applications       |                 |
| A17 | Three Phase Output                 | 400V 3 Phase                               |                 |
| A18 | Emergency Backup Supply Capability | Required                                   |                 |

**Lot 1 - Supply and Delivery of Mobile Battery Energy Storage &  
EV Charging Unit**

|     |                                     |                                                             |  |
|-----|-------------------------------------|-------------------------------------------------------------|--|
| A19 | Transportable Unit                  | Mobile trailer, skid-mounted or equivalent                  |  |
| A20 | Forklift Handling Points            | Required                                                    |  |
| A21 | Lifting Points                      | Required                                                    |  |
| A22 | Road Transport Compliance           | Where applicable                                            |  |
| A23 | Weather Protection                  | Suitable for outdoor use                                    |  |
| A24 | Minimum IP Rating                   | IP54 or equivalent                                          |  |
| A25 | Operating Temperature Range         | Suitable for Irish climatic conditions                      |  |
| A26 | Battery Management System (BMS)     | Required                                                    |  |
| A27 | Overvoltage Protection              | Required                                                    |  |
| A28 | Overcurrent Protection              | Required                                                    |  |
| A29 | Thermal Protection                  | Required                                                    |  |
| A30 | Construction Site Suitable          | Unit suitable for construction and remote site applications |  |
| A31 | Off-Grid Operation                  | Required                                                    |  |
| A32 | Output per DC Fast Charge Connector | Minimum 90kW                                                |  |
| A33 | Display Interface                   | Integrated LCD Display                                      |  |
| A34 | Display Size                        | Minimum 10 inch                                             |  |

**Lot 1 - Supply and Delivery of Mobile Battery Energy Storage &  
EV Charging Unit**

**3. Tenderer's Compliance Schedule**

| <b>Ref</b> | <b>Requirement</b>                    | <b>Comply<br/>(Y/N)</b> | <b>Tenderer's Response /<br/>Comments</b> | <b>Supporting<br/>Document Reference</b> |
|------------|---------------------------------------|-------------------------|-------------------------------------------|------------------------------------------|
| <b>A1</b>  | Battery Technology                    |                         |                                           |                                          |
| <b>A2</b>  | Usable Battery Capacity               |                         |                                           |                                          |
| <b>A3</b>  | Battery Life                          |                         |                                           |                                          |
| <b>A4</b>  | DC EV Charging Output                 |                         |                                           |                                          |
| <b>A5</b>  | Charging Standard                     |                         |                                           |                                          |
| <b>A6</b>  | Charging Connectors                   |                         |                                           |                                          |
| <b>A7</b>  | AC Output                             |                         |                                           |                                          |
| <b>A8</b>  | AC Voltage                            |                         |                                           |                                          |
| <b>A9</b>  | Cooling System                        |                         |                                           |                                          |
| <b>A10</b> | Remote Monitoring                     |                         |                                           |                                          |
| <b>A11</b> | OCPP Compatibility                    |                         |                                           |                                          |
| <b>A12</b> | Emergency Stop                        |                         |                                           |                                          |
| <b>A13</b> | Operating Temperature                 |                         |                                           |                                          |
| <b>A14</b> | CE Compliance                         |                         |                                           |                                          |
| <b>A15</b> | Warranty                              |                         |                                           |                                          |
| <b>A16</b> | AC Socket Provision                   |                         |                                           |                                          |
| <b>A17</b> | Three Phase Output                    |                         |                                           |                                          |
| <b>A18</b> | Emergency Backup<br>Supply Capability |                         |                                           |                                          |
| <b>A19</b> | Transportable Unit                    |                         |                                           |                                          |

**Lot 1 - Supply and Delivery of Mobile Battery Energy Storage &  
EV Charging Unit**

|            |                                     |  |  |  |
|------------|-------------------------------------|--|--|--|
| <b>A20</b> | Forklift Handling Points            |  |  |  |
| <b>A21</b> | Lifting Points                      |  |  |  |
| <b>A22</b> | Road Transport Compliance           |  |  |  |
| <b>A23</b> | Weather Protection                  |  |  |  |
| <b>A24</b> | Minimum IP Rating                   |  |  |  |
| <b>A25</b> | Operating Temperature Range         |  |  |  |
| <b>A26</b> | Battery Management System (BMS)     |  |  |  |
| <b>A27</b> | Overvoltage Protection              |  |  |  |
| <b>A28</b> | Overcurrent Protection              |  |  |  |
| <b>A29</b> | Thermal Protection                  |  |  |  |
| <b>A30</b> | Construction Site Suitable          |  |  |  |
| <b>A31</b> | Off-Grid Operation                  |  |  |  |
| <b>A32</b> | Output per DC Fast Charge Connector |  |  |  |
| <b>A33</b> | Display Interface                   |  |  |  |
| <b>A34</b> | Display Size                        |  |  |  |

Tenderers shall attach sufficient supporting documentation to verify the responses provided within this Compliance Schedule.

#### **4. Service & Support Requirements**

Tenderers shall provide details of:

- Warranty period
- Service arrangements
- Technical support
- Spare parts availability
- Response times

#### **5. Compliance Statement**

Tenderers shall indicate compliance against each requirement and provide supporting technical literature where applicable.