**KOKAM ENERGY STORAGE SYSTEM**

**REQUIREMENT FORM**

1. **General Customer Information**

|  |  |  |  |
| --- | --- | --- | --- |
| Date |  | Contact Name |  |
| Company Name |  | Job Title |  |
| Company Location (Country / City) |  | Cell Phone |  |
| Telephone |  |
| Website |  | E-mail |  |

1. **General Project Description**

|  |  |  |
| --- | --- | --- |
| **No** | **Item** | **Description** |
| 1 | Project Name |  |
| 2 | End User |  |
| 3 | Location (Installation Site Address) |  |
| 4 | Scope of Works |  |
| 5 | Target Delivery Date (YY/MM/DD) |  |
| 6 | Target Completion Date (YY/MM/DD) |  |
| 7 | Required Certification / Standard |  |
| 8 | Other information |  |

1. **Commercial Requirement**

|  |  |  |
| --- | --- | --- |
| **No** | **Item** | **Description** |
| 1 | Project Budget |  |
| 2 | Estimated Quantity of Order |  |
| 3 | Warranty Terms |  |
| 4 | Incoterms (Ex-works, CIF, DAP, etc.) |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Forecasted Annual Volume for 3 yrs.** | | | | | |
| Year 2021 (EA) |  | Year 2022 (EA) |  | Year 2023 (EA) |  |

1. **Application**

|  |
| --- |
| **Select Applications (multiple choices applicable)** |
|  |

1. **Technical Requirement**
   1. **Grid Requirements**

|  |  |  |
| --- | --- | --- |
| **Grid type** | | |
| Grid Options |  | |
| Select appropriate types |  | VAC |
| Hz |

* 1. **System Requirements**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| * Rated Energy | |  | | | | | | | kWh | | | | |
| * Required # of Cycles | |  | | | | | | | @ DOD | | |  | % |
| * Calendar Life | |  | | | | | | | Years | | | | |
| * Application's Definition   of End of Life | |  | | | | | | | % | | | | |
| * + 1. **Battery System**        1. **System Voltage** | | | | | | | | | | | | | |
| * Maximum System Voltage | |  | | | | | | | VDC | |  | | |
| * + Minimum System Voltage | |  | | | | | | | VDC | |  | | |
| * + - 1. **Discharge rate** | | | | | | | | | | | | | |
| * + Continuous Power / Duration | |  | | | kW | |  | | Min | Maximum power of the system, expressed as kW/MW along with the maximum duration the unit can operate at required condition | | | |
| * + Peak Discharge Power / Duration | |  | | | kW | |  | | Sec |
| * Frequency of Usage | |  | | | | | | | | i.e.) 1 day (Mean period) | | | |
| * Rest time in between Usage | |  | | | | | | | | i.e.) 12 hours | | | |
| * + - 1. **Charge rate** | | | | | | | | | | | | | |
| * Continuous Power / Duration |  | | kW | | |  | | Min | | Maximum power of the system, expressed as kW/MW along with the maximum duration the unit can operate at required condition | | | |
| * Peak Charge Power / Duration |  | | | kW | |  | | Sec | |
| * Frequency of Usage |  | | | | | | | | | Ex) 6 hours (Mean period) | | | |
| * Rest time in between Usage |  | | | | | | | | | Ex) 12 hours | | | |

* + 1. **PCS (Power Conditioning System)**

|  |  |  |
| --- | --- | --- |
| * AC Output Power |  | kVA/kW |
| * Max. AC Output Current |  | A |
| * Overload Capacity |  | % |
| * Operating Grid Voltage |  | VAC |
| * Operating Grid Frequency |  | Hz |
| * Power factor |  |  |
| * Efficiency |  | % |

* 1. **Environmental & Operational Conditions**

|  |  |  |
| --- | --- | --- |
| * Installation Environment |  | Indoor / Outdoor |
| * Ancillary System |  | List requirements  (HVAC, Fire Suppression, etc.) |
| * Operating Temperature Range |  | °C |
| * Battery Run(Charge & Discharge) time |  | Hours per day |
| * Information of the expected installation environment   (As specific as possible)  Ex) Underground, Weatherproofing, etc. |  | |

* 1. **Other Specification**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| * Expected Maximum Mechanical Requirements | Dimensions |  |  | (m) | Length |
|  |  | (m) | Width |
|  |  | (m) | Height |
| Weight |  |  | (kg) | Weight |
| * Any other operational, environmental considerations | |  |  | | |