



RUBBER PARK INDIA (PVT) LTD
(A JV of KINFRA & Rubber Board)

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Corrigendum No.9 -Addendum-5

Tender No: RP/E/T/03/2024-25.

Tender ID: 2024_RPI_690380_2.

Name of Work: Design Supply Installation Testing and Commissioning of Grid Connected Battery Energy Storage System (BESS) of 500 kW/1 MWh at Rubber Park Irapuram., Ernakulam District.

The following addendum/modification is made in the guaranteed technical particulars (GTP) of Transformer and RMU in the tender document. All other terms and conditions as stated in the tender document shall remain unaltered unless expressly amended by corrigendum's.

Date: 08.10.2024

Place: Irpauram

Sd/-

Managing Director
Rubber Park India (P) Ltd

| IDT - Specifications | | |
|-----------------------------|-------------------------------|---|
| Sl. No. | Description | Technical Specification |
| 1 | Reference standards | Level-II (Star-1) as per IS 1180 (Part 1) 2014 |
| 2 | Application | Outdoor IDT (K factor \geq 4) |
| 3 | Type of Transformer | Oil Type |
| 4 | Type of Installation | Outdoor |
| 5 | Duty | Continuous |
| 6 | Voltage ratio | 11 kV/ 433 V or 11kV / 660V (LT side Voltage suitable for the design of the BESS) |
| 7 | Rated frequency | 50 Hz |
| 8 | Number of phases | 3 |
| 9 | Connections (HV/LV) | Delta/star |
| 10 | Vector group reference | Dyn11 |
| 11 | Type of tap changer | Off circuit Tap Links |
| 12 | Tapping on HV side | +5% to -10% in steps of 2.5% |
| 13 | Reference Ambient Temperature | 40Deg.C |
| 14 | Type of cooling | ONAN |
| 15 | Core type | CRGO /Amorphous |
| 16 | Winding material | Copper |
| 17 | Terminal arrangements | Cable for HV & LV side |

**Sd/-
MD Rubber Park India P Ltd**

| 11kV RMU for BESS | | |
|--------------------------|--|--|
| Sl. No. | Description | Technical Specification |
| 1 | Make | ABB, Crompton Greaves, Lucy Electric, Siemens, Schneider, L&T |
| 2 | Type | Outdoor Type RMU (2 LBS +1VCB) |
| 3 | Rated Voltage | 12 kV |
| 4 | Operation voltage: | 11kV |
| 5 | Rated lightning withstand voltage | 75kVp |
| 6 | Rated Power-frequency withstand | 28kV, 1 min |
| 7 | Rated Frequency | 50Hz |
| 8 | Rated Peak Current | 50kA peak |
| 9 | Rated short-time current | 21kA |
| 10 | Rated short -time | 3 sec |
| 11 | Operation | Manual and Motorized |
| 12 | Protection | Self-powered O/C and EF protection relay. Suitable CTs & PTs shall be designed and proposed. |
| 14 | Rated short circuit making capacity | 52.5 kA |
| 15 | Remote monitoring and control | Yes (FRTU). |
| 16 | IP Rating | IP 67 for gas tank IP54 for enclosure IP 4X for low-voltage compartment |
| 17 | Internal Arc test | 20kA, 1 sec |
| 18 | Rated Normal Current of Incomer Load Break Switch and Circuit – breaker(VCB) | 630 A |
| 19 | Switching Capacity of VCB | As per IEC 62271-100 |
| 20 | Switching capacity of Earthing Switch | As per IEC 62271-102 |
| 21 | Stainless Steel Tank | The tank shall be robotically welded and made of stainless steel material conforming to IP 67 degree of protection and the thickness of all sides shall be not be less than 2.5 mm. |

Sd/-

MD
Rubber Park India P Ltd