

|       | <b>Supply</b>   |          |     |
|-------|---|----------|-----|
| S.No. | Item Description  | Quantity | UOM |
| 1     | 33kV Double Busbar GIS Switchgear (as per SLD)  | 8        | Set |
| 2     | Battery Bank  | 1        | Set |
| 3     | Battery Charger with DCDB   | 1        | Set |
| 4     | ACDB  | 1        | set |
| 5     | Grounding and earthing of entire substation including earthing of yard fence                      | 1        | Lot |
| 6     | high mast lighting 16M high including lighting fixtures   | 2        | Lot |
| 7     | lightning protection system   | 1        | Lot |
| 8     | LT power cable and Control cables including glands, Roxtec, Terminations                          | 1        | Lot |
| 9     | 33kV termination kits for 33kV GIS Switchgear & Outdoor Bays                                      | 1        | Lot |
| 10    | 11kV Cable termination kit indoor and outdoor ( For Incomer, station transformer, Capacitor bank) | 1        | Lot |
| 11    | Insulators,spacers, clamps and connectors with 10% spare each                                     | 1        | Lot |
| 12    | CT 11kV Resin Cast 800-400/1-1A   | 3        | Nos |
| 13    | Cable trays   | 1        | Lot |
| 14    | Maintenance tools and tackles including testing instruments                                       | 1        | Lot |
| 15    | Cabling between equipments and RTU  | 1        | Lot |
| 16    | Fire Extinguisher   | 1        | Lot |
| 17    | Indoor &Outdoor LED Lighting including street lighting with poles                                 | 1        | Lot |
| 18    | Line current differential relay for remote location (with DC-DC Converter, if required)           | 2        | Nos |
| 19    | SCADA   | 1        | Lot |
| 20    | 33kV Post insulators  | 1        | Lot |
| 21    | Support Structure for all equipments including post insulators                                    | 1        | Lot |
| 22    | Cable Mounting structure  | 6        | Set |
| 23    | GPS Vehicle Tracking System (On returnable basis)   | 1        | Lot |
| 24    | Indoor and Outdoor Emergency lighting   | 1        | Set |
| 25    | Spares ( as Per Spec)   | 1        | Lot |
| 26    | Fire Alarm System   | 1        | Lot |
| 27    | Grid Monitoring System  | 1        | Lot |
| 28    | Exhaust and Ventilation   | 1        | Lot |
| 29    | NIFPS   | 1        | Set |
| 30    | 11kV Auto switched capacitor bank Panel type Outdoor  | 1        | Set |
| 31    | Testing and measurement instruments (As Per Spec)   | 1        | Lot |
| 32    | 11kV Auto switched capacitor bank Panel type Outdoor  | 1        | Set |

|   |  |                 |            |
|---|--|-----------------|------------|
| 34  | HT Panel Cable Earthing and Bus earthing truck   | 1               | Set        |
| 35  | CCTV   | 1               | Set        |
| 36  | NDR along with box ( as required)  | 4               | Nos        |
| 37  | Under voltage relay along with mounting box  | 1               | Nos        |
| <b>Erection , Testing &amp; Commissioning</b> |  |                 |            |
| <b>S.No.</b>                                  | <b>Item Description</b>  | <b>Quantity</b> | <b>UOM</b> |
| 1   | ETC of 33kV Double Busbar GIS Switchgear (as per SLD)  | 8               | Set        |
| 2   | ETC of Battery Bank  | 1               | Set        |
| 3   | ETC of Battery Charger with DCDB   | 1               | Set        |
| 4   | ETC of ACDB  | 1               | set        |
| 5   | ETC of Grounding and earthing of entire substation including earthing of yard fence                      | 1               | Lot        |
| 6   | ETC of high mast lighting 16M high including lighting fixtures   | 2               | Lot        |
| 7   | ETC of lightning protection system   | 1               | Lot        |
| 8   | ETC of LT power cable and Control cables including glands, Roxtec, Terminations                          | 1               | Lot        |
| 9   | ETC of 33kV termination kits for 33kV GIS Switchgear & Outdoor Bays                                      | 1               | Lot        |
| 10  | ETC of 11kV Cable termination kit indoor and outdoor ( For Incomer, station transformer, Capacitor bank) | 1               | Lot        |
| 11  | ETC of Insulators, spacers, clamps and connectors with 10% spare each                                    | 1               | Lot        |
| 12  | ETC of CT 11kV Resin Cast 800-400/1-1A   | 3               | Nos        |
| 13  | ETC of Cable trays   | 1               | Lot        |
| 14  | ETC of Maintenance tools and tackles including testing instruments                                       | 1               | Lot        |
| 15  | ETC of Cabling between equipments and RTU  | 1               | Lot        |
| 16  | ETC of Fire Extinguisher   | 1               | Lot        |
| 17  | ETC of Indoor & Outdoor LED Lighting including street lighting with poles                                | 1               | Lot        |
| 18  | ETC of Line current differential relay for remote location with DC-DC Converter, if required             | 2               | Nos        |
| 19  | ETC of SCADA   | 1               | Lot        |
| 20  | ETC of 33kV Post insulators  | 1               | Lot        |
| 21  | ETC of Support Structure for all equipments including post insulators                                    | 1               | Lot        |
| 22  | ETC of Cable Mounting structure  | 6               | Set        |
| 23  | ETC of Indoor and Outdoor Emergency lighting   | 1               | Set        |
| 24  | ETC of Fire Alarm System   | 1               | Lot        |
| 25  | ETC of Grid Monitoring System  | 1               | Lot        |
| 26  | ETC of Exhaust and Ventilation   | 1               | Lot        |
| 27  | ETC of 33/11kV 25MVA Power Transformer   | 1               | Set        |

|    |  |   |     |
|----|--|---|-----|
| 28 | ETC of 11kV Auto switched capacitor bank panel<br>type outdoor                                 | 1 | Set |
| 29 | ETC of 11kV HT Panel (As per SLD)  | 1 | Set |
| 30 | ETC of Station Transformer   | 1 | Set |
| 31 | ETC of CCTV  | 1 | Set |
| 32 | Transportation of Station Transformer  | 1 | Set |
| 33 | Dismantalling/Transportation/Shifting of free issue<br>items from Store/EX-1 Grid to ITPO Grid | 1 | Set |
| 34 | Modification of 11kV O/G panel by adding 4 NDR &<br>O/V Relay                                  | 1 | Set |
| 35 | Replacement of existing CT 11kV 400/1-1A to 11kV<br>800-400/1-1A                               | 1 | Set |
| 36 | Servicing of 16MVA 33/11kV Power Transformer   | 1 | Set |