

ANNEXURE_SPARES_ AURANGABAD

BOQ FOR BREAK-UP OF MANDATORY SPARES (SPECIFIED AS LOT ITEMS IN BID PRICE SCHEDULE)

| Sl. No. | Item Description | Unit | QUANTITY |
|------------|--|------|----------|
| A | 765kV SF6 Circuit Breaker | | |
| 1 | One Complete Pole of 765kV, 3150A CB without PIR Pole column interrupter, with driving mechanism and Marshaling Box but without support structure. | Pole | 1 |
| 2 | Grading capacitor (if applicable) | No | 1 |
| 3 | Rubber gasket, 'O' rings and seal (For Complete replacement for one phase) | Set | 1 |
| 4 | Trip coils with resistor | Nos. | 3 |
| 5 | Closing coils with resistor | Nos. | 3 |
| 6 | Terminal Pad with connector | Nos. | 2 |
| 7 | Molecular filter (For Complete replacement for one phase) | Nos | 2 |
| 8 | Corona Rings | Nos | 1 |
| 9 | Relay Power contactors, switch fuse units, limit switches, push button, timers & MCB etc (One No. of each Type) | Set | 1 |
| 10 | Pressure switch of each type/Density monitor (One No. of each Type) | Set | 1 |
| 11 | Auxiliary switch assembly (For one Phase of CB) | Set | 1 |
| B | 765 kV Isolator | | |
| B.1 | 3150A, Isolator with one E/S | | |
| 1 | One complete pole of Isolator including support insulator with 1 E/S with operating mechanism for main isolator and earth switch (excluding support structure) | No. | 1 |
| 2 | Copper contact fingers for female & male contacts | set | 2 |
| 3 | Open/Close Contactor Assembly, Timer, Key Interlock push button switch & auxiliary switches | set | 1 |
| 4 | Limit switch | Nos. | 2 |
| 5 | Terminal pads & Connectors | no | 3 |
| 6 | Corona shielding ring | Nos. | 3 |
| B.2 | 2000A, Isolator with one E/S | | |
| 1 | One complete pole of Isolator including support insulator with 1 E/S with operating mechanism for main isolator and earth switch (excluding support structure) | No. | 1 |
| 2 | Copper contact fingers for female & male contacts | set | 2 |
| 3 | Open/Close Contactor Assembly, Timer, Key Interlock push button switch & auxiliary switches | set | 1 |
| 4 | Limit switch | Nos. | 2 |

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| 5 | Terminal pads & Connectors | no | 3 |
| 6 | Corona shielding ring | Nos. | 3 |
| | | | |
| C | 765kV Current Transformer | | |
| | 3000A, with 120% extended current rating | Nos | 1 |
| | | | |
| D | 624kV Surge Arrester | | |
| 1 | 624kV Surge arrester complete with insulating base and terminal connectors (of each type) | No. | 1 |
| 2 | Surge counter/monitor | Nos. | 5 |
| | | | |
| | | | |
| L.2 | Reactor Protection panel | | |
| a | Reactor Differential Protection Relay | Set | 1 |
| b | Reactor Backup Impedence relay | Set | 1 |
| c | Restricted Earth Fault Protection Relay with non linear resistor | Set | 1 |
| | | | |
| | | | |
| M | Sub-Station Automation /SCADA system | | |
| 1 | Bay control unit (IED) of each type | Nos. | 1 |
| 2 | Ethernet switch of each type | Nos. | 1 |
| | | | |
| N | Fire Protection System | | |
| 1 | Deluge Valve (of each type) | Set | 1 |
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