

Scope of Work:

Work scope for VCB (Indoor / GIS /AIS) Servicing: [To be done by BA]

Indoor VCB: -

1. Mechanism- Spring Charge Mechanism, Closing Mechanism, Tripping Mechanism, Interlock Mechanism, Spare replacement as per requirement.
Lubrication/overhauling of moving & rotating parts as per requirement.
2. Control circuit- Closing, Tripping, Spring Charge, TCS, On/Off Spring Charge indication, Interlock Circuit, Auxiliary & NO/NC switch healthiness, TNC switch, L/R switch, Limit Switch, Motor circuit, Spare replacement as per requirement (Cable chamber Dressing & Damaged cable replacement, if required.)
3. Limb – Pole Alignment, Limb adjustment, Snatch Gap measurement, Drive Chamber & drive shaft inspection, Drive rod & Insulator condition checking, Spare replacement as per requirement.
4. Vacuum interrupter - VI conditions checking, Flexible copper foils inspection & Spare replacement as per requirement.
5. Fuse and MCB to be checked. Old HRC fuse to be replaced. Broken TB to be replaced.
6. Repairing, Overhauling and necessary rectification of 33kV Schneider make VCB Track
7. Dismantling of 33kV Epoxy Housing Assembly and cleaning of sulphur & moisture and re-insulation & fixing the same.
8. Testing of breaker after successful repairing & before charging, testing equipment under the scope of TPSODL. All testing to be done under the supervision of TPSODL representative.

AIS: -

1. Inspection & proper cleaning of cable entry chamber.
2. CT, PT & busbar to be made moisture free.
3. Rodent entry points to be blocked permanently & proper vermin proofing to be done.
4. Inspection and troubleshooting of all attached equipment like spouts, insulator, busbar, insulated gaskets, O-ring, bushings, sealing plate Etc.
5. AIS VCB mechanism inspection & trouble shooting including VI, limb alignment, Spring Charge Mechanism, Closing Mechanism, Tripping & Interlock Mechanism. Required spares to be replaced.
6. Cable chamber Dressing & Damaged cable replacement, if required (up to 10 sq. mm.).
7. VCB trolley mechanism function to be checked & lubricant to be applied for smooth operation.

GIS: -

1. Inspection of healthiness of GIS Chamber

2. Checking the gas level, filling, rectification of leakage issue, interlock circuit inspection,
3. Inspection and troubleshooting of all attached equipment like spouts, insulator, busbar, insulated gaskets, O-ring, bushings, sealing plate
4. GIS VCB mechanism inspection & trouble shooting including VI and limb alignment
5. Auxiliary switch alignment/replacement

Work scope for VCB (Indoor / GIS /AIS) Overhauling: [To be done by BA]

1. Mechanism- Spring Charge Mechanism, Closing Mechanism, Tripping Mechanism, Interlock Mechanism, Spare replacement as per requirement. Lubrication/overhauling of moving & rotating parts as per requirement.
2. Control circuit- Closing, Tripping, Spring Charge, TCH, On/Off indication, Interlock Circuit, Auxiliary & **NO/NC** switch healthiness, TNC switch, L/R switch, Motor circuit
3. Limb – Pole Alignment, Limb adjustment, Snatch Gap measurement, **Drive Chamber & drive shaft inspection, Drive rod & Insulator condition checking**
4. Testing of breaker after successful overhauling & before charging, testing equipment under the scope of TPSODL. All testing to be done under the supervision of TPSODL representative.

Servicing of Indoor VCB Panel: - [To be done by BA]

1. Repairing, overhauling & necessary rectification etc. work of 33kV VCB Dismantling of all bus bar link, Bus Spout, Support Insulator etc. & cleaning of sulphur and moisture and fixing of new heat shrinkable tube and improving insulation of spout with insulating material and re-fixing of epoxy bus spout with bus bar link etc. and alignment & adjustment with VCB Track.
2. Dismantling 33kV CT and cleaning of sulphur and moisture and re-insulation & fixing the same.
3. Dismantling 33kV Bus spout and cleaning of sulphur and moisture and re-insulation & fixing the same.
4. Painting of inside of the bus bar chamber of 33kV VCB Panel. After cleaning of rust and final synthetic enamel paint (With material, Paint by roller)
5. Dismantling 33kV PT and cleaning of sulphur and moisture and re-insulation & fixing the same.

****Cutting & dismantling of damaged Insulation Part of Cable end jointing portion and re-insulating with fixing of rain guard (Collar) (Except Jointing)**

N.B.: 1. Utilization of spares at site shall be done after confirmation from EIC regarding availability of the same with TPSODL. If not available, the same shall be provided by BA w.r.t. RO line items with due confirmation from EIC and proper certification in JMC.

2. Spares to be provided by BA as per the line items to suffice the requirement at PSS locations just in time to execute the overhauling/servicing work.

3. Some other Spares already available with TPSODL team to be provided by EIC as per the requirement at site.

Other Terms & Conditions:

MDCC: Not Applicable

Delivery/Completion Timeline: Shall be provided during issuance of RO pertaining to the PSS location.

Team Mobilization: BA shall mobilize their manpower for commencement of work at site within 1 week of issuance of RO and confirmation from EIC via mail communication. Details of EIC pertaining to each PSS location shall be provided during issuance of RO.

Liquidated Damages / Penalty: As per GCC Terms & Conditions

Guarantee/Warranty Period: Guarantee/Warranty period shall be 1 year from date of HOTO/commissioning as certified by EIC.