

Ring Main Unit (RMU) Maintenance Checklist

Installation Information

Customer		Plant	
Date		Job No.	
Equipment Manufacturer		Tag No.	
Voltage Rating		Current Rating	
Configuration		Serial No.	

Installation and Erection

S.No	Checklist	√/X	Remarks
1	Panel Level & Alignment Adjustment		
2	Panel Grounding Fixing		
3	Panel Coupling		
4	Conformity of Busbar Installation		
5	Busbar Tightening Torque (Nm)		
6	MV Cable Tightening Torque (Nm)		
7	Conformity of Earthing Circuit Installation		
8	Earthing Bar Tightening		
9	Interrupter Condition of DS/LBS		
10	Condition of Pole Circuit Breaker (CB)		
11	Condition of Lower Contact Point CB		
12	Condition of Upper Contact Point (CB)		

Operating Mechanism

S.No	Checklist	√/X	Remarks
1	Operating Mechanism Disconnecting Switch		
2	Mechanical Switch Close/Open		
3	Mechanical Earthing Switch Close/Open		
4	Operating Mechanism Circuit Breaker		
5	Mechanical Circuit Breaker Close/Open		

Visual Inspection and Labelling

S.No	Checklist	√/X	Remarks
1	Cleanliness of cubicle/panel		
2	Paintwork in good condition		
3	Safety Labels & Symbols Marked		
4	Blown fuse Indication for QM/CRM		
5	Conformity of Equipment		

Functional Test

S.No	Checklist	√/X	Remarks
1	Manual Electrical Switch Close/Open		
2	Breaker On/Off Indication		
3	Remote Switch Close/Open (if any)		

4	Heater Function		
5	Current Transformer Ratio		
6	Voltage Transformer Ratio		
7	Motorized Open/Close (if any)		
8	Tripping Coil (if any)		
9	Closing Coil (if any)		
10	Voltage Phase Indicator Lamp		
11	Mechanical Interlock		
12	Electrical Interlock		

Metering

S.No	Checklist	√/X	Remarks
1	Ammeter (if any)		
2	Voltmeter (if any)		
3	SF6 Gauge Meter		

Protection (If Any)

S.No	Checklist	√/X	Remarks
1	Overcurrent Relay		
2	Ground Fault Relay		
3	Under Voltage Relay		
4	MV Fuse (if any)		

Testing

S.No	Checklist	√/X	Remarks
1	Insulation Test, IR (Megger)		
2	Contact Resistance Test (if any)		
3	SF6 Dew Point & Humidity		

Insulation Test - IR Megger Test Results

Minimal: 20 GOhm (NETA 2007)

S.No	Phase Test	Voltage (kV)	Time (min)	Result (Ohm)
1	L1-L2			
2	L2-L3			
3	L3-L1			
4	L1-GROUND			
5	L2-GROUND			
6	L3-GROUND			

Remarks & Special Notes

Authorization

Checked By: Name: Designation: Date:	Approved By: Name: Designation: Date:
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N/A = Not Available

N/Ap = Not Applicable