S.No	Work Description Each person involved in the maintenance should get a tool box		
1.			
2.	Verify that the feeder is isolated by removing the control and space heater fuses, turning the isolator/MCCB off.	Electrician	
3.	Motor		
a.	In the field, physically compare the tag numbers on the authorization and the motor.	Electrician	
b.	Verify the status of the motor emergency pushbutton.	Electrician	
c.	Use a multimeter to test for voltage. Make sure there is no voltage.	Electrician	
d.	Use a discharge rod to disconnect the motor and power cord.	Electrician	
e.	Clean the motor canopy by removing it	Electrician	
f.	Remove the fan cover. Clean the fan, and motor.	Electrician	
g.	Verify the condition of the motor cables, terminal box, and motor/EPB earthing.	Electrician	
h.	Check the condition of the motor shaft seals (e.g., V-ring or radial seal).	Electrician	
i.	Check that Motor is good condition.	Electrician	
j.	Open the terminal box of the motor. Check for any sign of dust / moisture inside the terminal box.		
k.	Examine and make a note of the motor connection's terminal box.	Electrician	
1.	Dox.Examine the device for any indication of lugs, cable ends, deltalinks, internal leads, etc. for any burning smells. Aftercommunicating with the in-charge Engineer, take the necessaryaction (such as re-lugging, re-taping, etc.). Additionally, examinethe terminal connections for any looseness and tighten themwith the proper pressure, being careful not to overtighten.		
m.	Check the tightness of the terminal connections and the health of the terminals by opening the terminal box.	Electrician	
n.	With sealant and aluminium tape, secure the terminal boxes for the motor.	Electrician	
0.	Clear the motor body completely of any accumulated dirt.	Electrician	
p.	Make that the motor body is being earthed at two different positions.	Electrician	
q.	Re-install the motor rain canopy.	Electrician	
	From the feeder end, verify and record (in the checklist) the		
4.	following:		
a.	Clean the cable and feeder chamber.	Electrician	
b.	Check all the tools to make sure it is in good working order.	Electrician	
с.	Inspect the tightness of the control wire at each connector and component connection.	Electrician	
d.	Inspect the current condition of electrical parts, such as the contactors and relays. Replace as required.	Electrician	

S.No	Work Description	Activity By
e.	Check the Start and Stop push buttons are free to operate & check the contact make & break using multimeter. If any mislead, replace the contact element.	Electrician
f.	Check the Motor and Cable Insulation Resistance Electricia	
g.	Using a digital multimeter, check the resistance of the motor winding between each phase.	Electrician
h.	Check the tightness of the CT terminal. The secondary CT circuit was measured as follows: Measurement of Parallel Resistance (Ph-N).according to the prescribed procedure. No interruption. After opening the series links, measure the CT secondary resistance (Ph-N). After opening the series links, measure the load resistance (Ph-N). After opening the series links, measure the load resistance (Ph-N). Series Resistance (link Open): Measure the resistance on the CT secondary plus load side after opening the series links. Link Resistance: After connecting a series link and a regular connection. After connecting the series link and regular connection, measure the parallel resistance (Ph-N).	Electrician
g.	Check the condition by opening the power contactor.	
5.	Complete the checklist with all the required information.	Electrician
6.	Perform adequate housekeeping in the area.	Electrician



Maintenance of Motor

Checklist

MOTOR TAG NO: Motor KW: Motor Sr. No: DATE OF COMMISSION: FEEDER NO: MOTOR FLC:

 a. The feeder has been isolated. b. Emergency The pushbutton has been pressed. c. Using a multimeter, check for the existence of voltage. d. The discharge motor and the power cord. 2. IN INSPECTION FIELD A. MOTOR a. Clean the motor body, fan, fan cover, and terminal box. b. Connections to the motor body's earthing. b. Connections to the motor body's earthing. c. The motor cables, terminal box, and motor / EPB Yes / No
 pressed. c. Using a multimeter, check for the existence of voltage. d. The discharge motor and the power cord. 2. IN INSPECTION FIELD A. MOTOR a. Clean the motor body, fan, fan cover, and terminal box. b. Connections to the motor body's earthing. c. The motor cables, terminal box, and motor / EPB Yes / No
 c. Using a multimeter, check for the existence of voltage. d. The discharge motor and the power cord. 2. IN INSPECTION FIELD A. MOTOR a. Clean the motor body, fan, fan cover, and terminal box. b. Connections to the motor body's earthing. Tight / Loose c. The motor cables, terminal box, and motor / EPB
of voltage. The discharge motor and the power cord.Yes / No2.IN INSPECTION FIELDA.MOTORa.Clean the motor body, fan, fan cover, and terminal box.Yes / Nob.Connections to the motor body's earthing.Tight / Loosec.The motor cables, terminal box, and motor / EPBYes / No
d.The discharge motor and the power cord.Yes / No2.IN INSPECTION FIELDA.MOTORa.Clean the motor body, fan, fan cover, and terminal box.Yes / Nob.Connections to the motor body's earthing.Tight / Loosec.The motor cables, terminal box, and motor / EPBYes / No
2. IN INSPECTION FIELD A. MOTOR a. Clean the motor body, fan, fan cover, and terminal box. b. Connections to the motor body's earthing. c. Tight / Loose c. The motor cables, terminal box, and motor / EPB Yes / No
A.MOTORa.Clean the motor body, fan, fan cover, and terminal box.Yes / Nob.Connections to the motor body's earthing.Tight / Loosec.The motor cables, terminal box, and motor / EPBYes / No
A.MOTORa.Clean the motor body, fan, fan cover, and terminal box.Yes / Nob.Connections to the motor body's earthing.Tight / Loosec.The motor cables, terminal box, and motor / EPBYes / No
a.Clean the motor body, fan, fan cover, and terminal box.Yes / Nob.Connections to the motor body's earthing.Tight / Loosec.The motor cables, terminal box, and motor / EPBYes / No
a.box.b.Connections to the motor body's earthing.Tight / Loosec.The motor cables, terminal box, and motor / EPBYes / No
box. b. Connections to the motor body's earthing. Tight / Loose Connections to the motor body's earthing. The motor cables, terminal box, and motor / EPB Yes / No
The motor cables, terminal box, and motor / EPB Yes / No
Cline and all in fineline and an
c. earthing are all in fine working order.
d. The motor shaft seals (e.g., V-ring or radial seal) are Yes / No
u. in good condition.
e. Main TB Power Cable Connection Tight /Loose/Overheat
f. Indication of moisture, dust, or contaminants into Yes / No
the TBs
Look for any indications of abnormalities or Yes / No
g. overheating.
h. TBs have been sealed. Yes / No
i. The Motor Canopy has been reassembled. Yes / No
Connection Diagram for Motor Terminal Box:
j.
3. MOTOR HEALTHINESS CHECK
a. In connection to the earth, check the motor's MΩ I.R. value. (Make sure the field's motor
terminal box is closed.)
b. Inspect the resistance of the motor windings. RY : $ _{ } \Omega $



		VD O	
		YB :Ω	
		BR :Ω	
0	Check the setting for the himstel overload	Δ	
с.	Check the setting for the bimetal overload	A	
	relay.		
d.	Considering the FLC and load current, the	Ok / Not Ok	
	setting for the overload relay is good.		
4.	FUSE CONDITION CHECK		
a.	Check fuses: (R) Phase : A	Ok / Blown Out	
	(Y) Phase : A	Ok / Blown Out	
	(B) Phase : A	Ok / Blown Out	
b.	Check control fuse / MCB : A	Ok / Blown Out	
с.	Check D.C. fuses (if any): A	Ok / Blown Out	
С.	Check D.C. luses (il ally) I	OK / DIOWII Out	
5.	MCC FEEDER		
a.	Cleaning the Feeder and Cable box.	Yes / No	
1.		$O1 / N_{\rm eff} O1$	
b.	Checked each of the devices to make sure	Ok / Not Ok	
	they are in good working order.		
c.	All wire was checked for wear & cuts and	Ok / Not Ok	
	was found to be okay.	, ,	
4		Vec / No	
d.	Petroleum jelly is used to clean and lubricate	Yes / No	
	contacts.		
e.	Feeder was inspected for signs of	Ok / Not Ok	
	overheating, arching, or insulation failure		
	and confirmed to be in good condition.		
ſ		Vac / Na	
f.	Telescoping rails and racking screws are	Yes / No	
	greased.		
Α.	POWER CABLE CIRCUIT		
a.	Connectivity of power cables at cable alley's	Tight / Loose / Over-Heat	
~.	outgoing terminals.		
1-			
b.	Outgoing jaw connectors on power cables	Good / Over-Heat	
	terminate inside the module.		
с.	Power termination at the power contactor's	Good / Over-Heat	
	incoming and outgoing terminals.	,	
4		Ω_{1z} / Not Ω_{1z}	
d.	Power contactors (contacts) and arc chute	Ok / Not Ok	
	condition		
e.	Continuity of every pole of the power	Ok / Not Ok	
	contactor after maintenance is completed		
f.	Power contactor Coil Resistance	Ω	
1.		<u>\</u>	
g.	The condition of the power contactor's	Ok / Not Ok	
	auxiliary contact		
h.	Continuity of each overload relay pole after	Ok / Not Ok	
11.			
	maintenance is completed		
·	1	i de la construcción de la constru	

В.	CONTROL CIRCUIT		
a. All control wires' connection tightness at fixed and		Tight / Loose	
	moving contacts		
b.	All control wire connections at auxiliary and power	Tight / Loose	
	contactors are required to be tight.		
c.	Tightness of the wire connections at the	Tight / Loose	
	overload and numerical relay		
d.	Tightness of the control wire connections at control	Tight / Loose	
	and neutral connections		
e.	Tightness of the cable connections at metering	Tight / Loose	
	and protection CT		
f.	Tightness of the control wire connections at the earth	Tight / Loose	
	leakage relay and CBCT		
g.	Tightness of the control wire connections at the	Tight / Loose	
1	indicator bulb and push buttons		
h.	Control the testing process in Test mode with the	Ok / Not Ok	
	Test Push Button.		
i.	Overload resetting works.	Ok / Not Ok	
j.	The feeder's overall cleanliness	Ok / Not Ok	
k.	Control contactor / relay coil resistance:		
	Contactor Number:	Resistance (Ω)	
1.	CT The secondary circuit is in satisfactory condition	Ok / Not Ok	
1.	and is not open. Resistance was tested as shown	OK / NOT OK	
	below & determined to be adequate.		
	selow a determined to be ducquate.	R Y B	
	Resistance in parallel (Ph-N)	•• • • •	
	CT Resistance (Ph-N)sec		
	Load Resistance (Ph-N)		
	Resistance in series (open link)		
	Resistance of the link (after connect)		
	REMARKS:		



Maintenance of Motor

Note:

PM – Preventive Maintenance TB – Terminal Box MTB – Main Terminal Box MCC – Main Circuit Chamber Ph – Phase N - Neutral

Electrician Signature

Engineer Signature

(Name with Date)

(Name with Date)