

REB FORM NO.-455(SUBSTATION PERIODIC INSPECTION AND MAINTENANCE FORM)

PBS: Tangail Substation: Nagorpur-1 CAPACITY = 25/33 MVA

Date of Commission:- Date of Augmentation:- Date of maintenance:- 18/11/23

PUT TICK (√) MARK BY ITEM INSPECTED OR MAINTAINED

1. POWER TRANSFORMER (1Φ Bank)

ITEMS CHECKED↓	REMARKS→	R-Φ	Y-Φ	B-Φ	Spare
01.Manufacture		ALFA 2003	ALFA 2003	ALFA 2003	
02.SI No.(as per previous connection)		1667/20	1667/21	1667/19	
03.SI No.(as per new connection)		-	-	-	
Item checked for the Phases of		-	-	-	
04. Bushing chipped/broken/cracked		No	No	No	
05.Record level oil		1600	1600	1600	
06.Winding temperature (Present °C)		59	60	60	
Max (°C)		66	64	65	
07.Oil/liquid temperature Present (°C)		60	60	60	
Max (°C)		65	65	65	
08.Record gas pressure (kg/cm2/lbs/in2)		0.5	0.5	0.5	
09.Pressure release device operation		√	√	√	√
10.Auxiliary fan operation		√	√	√	
11.General condition & foundation		√	√	√	√
12.Leakage of radiator, valve,plug etc.		√	√	√	√
13.Dielectric strength of oil (KV)		49.5	55	39	
14.Connection loose or corroded		√	√	√	
15.240Volt power supply & wiring		√	√	√	
16.% Impedance		6	6	6	
17.Tapchanger position		5	5	5	

18. Megger results(MΩ)(Tested By 5KV Insulation Tester)

Phase(Φ)	H1-H2	X1-X2	HT-LT	HT-BDY	LT-BDY	L/A	Amp(NL)	Amp(Load)	Remarks
R	0	0							
Y	0	0							
B	0	0							
SPR	0	0	-	-					

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2. AUTOMATIC CIRCUIT RECOSER (1Φ Bank)

Item Checked↓ Remarks→	33KV ACR	11KV Feeders
		13M
01.Manufacturer	Schneider	Entec
02.Control type	Numerical	Numerical
03.SL.No	PB-2012-11 446869	PR113040525
04.Rating(,Amps)		
05.Curvesetting(phase) &time Multiply	310 IEC-NI	180 IEC-SI
06.Curvesetting(ground) &time Multiply	40 IEC-NI	40 IEC-SI
07.Bushings	√	√
08.Tank/bpdy	√	√
09.Operation Counter	√	√
10.Op. Counter reading	1748	000
11.Battery Condition	√	√
12.Mis-operation detect	No	No
13.Moisture indication	√	√
14.Misalignment/arcng	√	√
15.Oil level indicator	√	√
16.SF6 pressure(KPag)	√	√
17.OIL strength(KV0)	-	-
18.Operation To Lockout	√	√
19.FRAME/struction	√	√
20.Servicing	√	√
21.Oil changed	No	No
22.SF6 gas added	No	No
23.Control,S FUNCTION	√	√
24.Load(MW)Norn Cond(off-Peak/Peak)		
25.Load(MW) Irri Cond(off-Peak/Peak)		

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3. AUXILIARY EQUIPMENT:-**A. METER CABINET & CONTROL PANELS**

Item Checked↓ Remarks→	Remarks	ITEMS	Remarks
01.Wiring/Lighting/terminal Blocks/switches	√		
0.3Meter type:- Q-METER	√		

B.CURRENT & POTENTIAL TRANSFORMER

Item Checked↓ Remarks→	Current Transformer		Potential Transformer	
	R-Y	B-Y	R-Y	B-Y
01.Manufacturer				
02.SL.No				
03.Ratio(Put √ for ratio used)				
04.Bushing contaminated	√	√	√	√
05.Bushing broken or Cracked	√	√	√	√
06.Connection loose corroded	√	√	√	√
07.tank/body damaged or leak	√	√	√	√
08.OIL level/STRENGTH(KV)	√	√	√	√
09. Megger results(MΩ)				

4. SURGE ARRESTERS(Power Transformer)

Item Checked Remarks→	Red phase		Yellow phase		Blue phase	
	33KV	11 KV	33 KV	11 KV	33 KV	11 KV
01.Manufacturer						
02.SL.No						
03.Rating(KV)	Rating					
	MCOV					
04. Megger results(MΩ)						
05.Porcelain,broken /Cracked	√	√	√	√	√	√

VI. ISOLATION SWITCHES (199&166)

Items Check↓ Rem→	Item Checked	Remarks→
01.Liver/Handle	√	
02.Blade,contacts	√	
03.Smooth operation	√	
04.Ground connection	√	

VII. ISOLATION SWITCHES (299&266)

Items Check↓ Rem→	Item Checked	Remarks→
01.Liver/Handle	√	
02.Blade,contacts	√	
03.Smooth operation	√	
04.Ground connection	√	

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VIII. 33 KV FUSES

Items CHECK↓ Rem→	R-Φ	Y-Φ	B-Φ	Items CHECK↓ Rem→	RΦ	YΦ	BΦ
01.Manufacturer				05.Base& mOUNTING	√	√	√
02.Rating(AMPS				06.Smooth opration	√	√	√
03.Fuse link/barrel	√	√	√	07.Alignment	√	√	√
04.Contacts	√	√	√	08.Connection	√	√	√

IX. INSULATORS

Items Chack↓ Rem→		Items Chack↓ Remarks→		Items Chack↓ Rem→	
01Porcelain broken/crack	√	02. Metal parts/base/ mounting	√	03. Washing&cleaning	√

X.PROTECTIVE LIGHTING

Items Ch.	Remarks	Items Chacked	Remarks	Items Chacked	Remarks
Glassware	√	Photo electric cell assembly		Conduit/fitting/fixtures	√

XI. STRUCTURES(WOODEN)

ITEMS(Steel Structure)	Remarks	ITEMS (Wooden pole	Remarks
01.Painting performed	√	01. Condition of poles	√
02.Rust removed	√	02. Condition of Cross arm	√
03.Loose broken& missing	√	03. Condition of guy/anchor	√

XII.PAD& FOUNDATION

ITEMS	Remarks	ITEMS	Remarks
01.Steel Structure foundation	√	02.X-former pad	√
03.v.r. pad	√	04.OCR/ACR pad	√

XIII.SUBSTATION YARD

ITEMS	Remarks	ITEMS	Remarks
01.Fencw/painting/intactness	√	02.Leveling/Slope/road	√
03.Gate & its opration	√	04. Locks&keys	√
05.Weed/flooding	√	06.WARNING SIGNS	√

XIV.GROUNDING SYSTEM

ITEMS	Remarks	ITEMS	Remarks
01.Connections loose or corroded	√	02.Grounding resistance measurement	√

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1.POWER TRANSFORMER (Unit-1)

ITEMS CHECKED		Unit-1
01.Manufacture		Confidence-2017
02.SI No		CELT-0026
03.Bushing chipped/broken/cracked		√
04.Record level oil		4250L
05. Temperature gauge (winding)	(Present (°C))	40
	(Max (°C))	-
06. Temperature gauge (Oil)	(Present (°C))	40
	(Max (°C))	55/60
07.Record gas pressure (kg/cm2/lbs/in2)		
08.Pressure release device operation		√
09.Auxiliary fan operation		√
10.General condition & foundation		√
11.Radiator, valve, plug etc.		√
12.Conservator"stank regulator, breather etc.		√
13.Dielectric strength of oil (KV)		
14.Connection loose or corroded		√
15.240Volt power supply & wiring		√
16.% Impedance		8.13/11.38
17.Tapchanger position		√
18.Vector Grop		√

19. . Megger results(M Ω)(Tested By 5KV Insulation Tester)

Bank	H1/H2/H3	X1/X2/X3	HT-LT	HT-BODY	LT-BODY	Amp(NL)	Amp(Load)	Remarks
-	0	0	26G Ω	28G Ω	22G Ω	-	-	OK

II. VOLTAGE REGULATOR

ITEMS CHECKED	R-Phase	Y-Phase	B-Phase
01.Manufacturer	Cooper power	Cooper power	Cooper power
02.SL.No	2016-4-1650004000	2016-5-1650004689	2016-5-1650004688
03.Control type	Automatic	Automatic	Automatic
04.Rating(A,Ampere)	656	656	656
05.Bushing contamination	√	√	√
06.Bushing chipped,broken orcracked	√	√	√
07.Record level of oil			
08.Connection loose or corroded	√	√	√
09.Oil tank damage or leaking	√	√	√
10.Dielectric strength of oil (KV)	58	64	53
11.Operation Counter reading			
12.Control panel seetting:- Voltage level = 120V, Bandwidth =4.0V, Time deley = 60Sec			

13. Megger results(M Ω)(Tested By 5KV Insulation Tester)

Phase(Φ)	S/L/SL	S/Body	L/Body	SL/Body	Amp(NL)	Amp(Load)	Remarks
R	0	15.2	14.8	14.5	-	-	OK
Y	0	15.8	15.2	18	-	-	OK
B	0	17.7	18.1	20	-	-	OK

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III. AUTOMATIC CIRCUIT RECOSER

Item Checked↓ Remarks→	33KV ACR	11KV Feeders		
		1A	2B	4D
01.Manufacturer	Entec	Entec	Cooper power	Cooper power
02.Control type	Numerical	Numerical	Numerical	Numerical
03.SL.No	2016-12- PR316120 309	2019-01- PR11901 0163	CP58FXD10 519	CP58FXD1 0539
04.Rating(,Amps)	630	630	630	630
05.Curvesetting(phase) &time Multiply	190 IEC-SI	120 IEC-SI	180 IEC-NI	250 IEC-NI
06.Curvesetting(ground) &time Multiply	40 IEC-SI	40 IEC-SI	40 IEC-NI	40 IEC-NI
07.Bushings	✓	✓	✓	✓
08.Tank/bpdy	✓	✓	✓	✓
09.Operation Counter	✓	✓	✓	✓
10.Op. Counter reding	1090	-	4495	3942
11.Battery Condition	✓	✓	✓	✓
12.Mis-operation detect	✓	✓	✓	✓
13.Moisture indication	✓	✓	✓	✓
14.Misalignment/arcng	✓	✓	✓	✓
15.Oil level indicator	✓	✓	✓	✓
16.SF6 pressure(KPag)	✓	✓	✓	✓
17.OIL strength(KV0	✓	✓	✓	✓
18.Operation To Lockout	✓	✓	✓	✓
19.FRAME/struccion	✓	✓	✓	✓
20.Servicing	✓	✓	✓	✓
21.Oil changed	No	No	No	No
22.SF6 gas added	No	No	No	No
23.Control,S FUNCTION	✓	✓	✓	✓
24.Load(MW)Norn Cond(off-Peak/Peak)				
25.Load(MW) Irri Cond(off-Peak/Peak)				

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IV. AUXILIARY EQUIPMENT:-**A. METER CABINET & CONTROL PANELS**

Item Checked↓ Remarks→	Remarks	ITEMS	Remarks
01.Wiring/Lighting/terminal Blocks/switches	√		
0.3Meter type:- Q-METER	√		

B.CURRENT & POTENTIAL TRANSFORMER

Item Checked↓ Remarks→	Current Transformer		Potential Transformer	
	R-Y	B-Y	R-Y	B-Y
01.Manufacturer				
02.SL.No				
03.Ratio(Put √ for ratio used)				
04.Bushing contaminated				
05.Bushing broken or Cracked	√	√	√	√
06.Connection loose corroded	√	√	√	√
07.tank/bodydamaged or leak	√	√	√	√
08.OIL level/STRENGTH(KV)	√	√	√	√
09. Megger results(MΩ)				

V. SURGE ARRESTERS(Power Transformer)

Item Checked	Remarks→	Red phase		Yellow phase		Blue phase	
		33KV	11 KV	33 KV	11 KV	33 KV	11 KV
01.Manufacturer							
02.SL.No							
03.Rating(KV)	Rating						
	MCOV						
04. Megger results(MΩ)							
05.Porcelain,broken /Cracked		√	√	√	√	√	√

VI. ISOLATION SWITCHES (199&166)

Items Check↓ Rem→	Item Checked	Remarks→
01.Liver/Handle	√	
02.Blade,contacts	√	
03.Smooth operation	√	
04.Ground connection	√	

VII. ISOLATION SWITCHES (299&266)

Items Check↓ Rem→	Item Checked	Remarks→
01.Liver/Handle	√	
02.Blade,contacts	√	
03.Smooth operation	√	
04.Ground connection	√	

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VIII. 33 KV FUSES

Items CHECK↓ Rem→	R-Φ	Y-Φ	B-Φ	Items CHECK↓ Rem→	RΦ	YΦ	BΦ
01.Manufacturer				05.Base& mOUNTING	√	√	√
02.Rating(AMPS				06.Smooth opration	√	√	√
03.Fuse link/barrel	√	√	√	07.Alignment	√	√	√
04.Contacts	√	√	√	08.Connection	√	√	√

IX. INSULATORS

Items Chack↓ Rem→		Items Chack↓ Remarks→		Items Chack↓ Rem→	
01.Porcelain broken/crack	√	02. Metal parts/base/ mounting	√	03. Washing&cleaning	√

X.PROTECTIVE LIGHTING

Items Ch.	Remarks	Items Chacked	Remarks	Items Chacked	Remarks
Glassware	√	Photo electric cell assembly	√	Conduit/fitting/fixtures	√

XI. STRUCTURES(WOODEN)

ITEMS(Steel Structure)	Remarks	ITEMS (Wooden pole	Remarks
01.Painting performed	√	01. Condition of poles	√
02.Rust removed	√	02. Condition of Cross arm	√
03.Loose broken& missing	√	03. Condition of guy/anchor	√

XII.PAD& FOUNDATION

ITEMS	Remarks	ITEMS	Remarks
01.Steel Structure foundation	√	02.X-former pad	√
03.v.r. pad	√	04.OCR/ACR pad	√

XIII.SUBSTATION YARD

ITEMS	Remarks	ITEMS	Remarks
01.Fencw/painting/intactness	√	02.Leveling/Slope/road	√
03.Gate & its opration	√	04. Locks&keys	√
05.Weed/flooding	√	06.WARNING SIGNS	√

XIV.GROUNDING SYSTEM

ITEMS	Remarks	ITEMS	Remarks
01.Connections loose or corroded	√	02.Grounding resistance measurement	√

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1.POWER TRANSFORMER (Unit-2)

ITEMS CHECKED		Unit-2
01.Manufacture		TS
02.SI No		2019-052
03.Bushing chipped/broken/cracked		No
04.Record level oil		6800L
05. Temperature gauge (winding)	(Present (°C))	56
	(Max (°C))	60
06. Temperature gauge (Oil)	(Present (°C))	51
	(Max (°C))	60
07.Record gas pressure (kg/cm2/lbs/in2)		
08.Pressure release device operation		√
09.Auxiliary fan operation		√
10.General condition & foundation		√
11.Radiator, valve, plug etc.		√
12.Conservator"stank regulator, breather etc.		√
13.Dielectric strength of oil (KV)		37.8
14.Connection loose or corroded		√
15.240Volt power supply & wiring		√
16.% Impedance		
17.Tapchanger position		
18.Vector Grop		

19. . Megger results(MΩ)(Tested By 5KV Insulation Tester)

Bank	H1/H2/H3	X1/X2/X3	HT-LT	HT-BODY	LT-BODY	Amp(NL)	Amp(Load)	Remarks
	0	0	18.2GΩ	23GΩ	8.2GΩ	-	-	OK

II. VOLTAGE REGULATOR

ITEMS CHECKED	R-Phase	Y-Phase	B-Phase
01.Manufacturer	Cooper Power	Cooper Power	Cooper Power
02.SL.No	2004-10-0437017529	2004-10-0437017620	2004-10-0437017658
03.Control type	Numerical	Numerical	Numerical
04.Rating(A,Ampere)	328	328	328
05.Bushing contamination	√	√	√
06.Bushing chipped,broken orcracked	√	√	√
07.Record level of oil			
08.Connection loose or corroded	√	√	√
09.Oil tank damage or leaking	√	√	√
10.Dielectric strength of oil (KV)			
11.Operation Counter reading			
12.Control panel seetting:- Voltage level = 120V, Bandwidth =4.0V, Time deley = 60Sec			

13. Megger results(MΩ)(Tested By 5KV Insulation Tester)

Phase(Φ)	S/L/SL	S/Body	L/Body	SL/Body	Amp(NL)	Amp(Load)	Remarks
R	0	22.5GΩ	32.6GΩ	62.5GΩ	-	-	OK
Y	0	17.8GΩ	25.5GΩ	32.7GΩ	-	-	OK
B	0	18.5GΩ	26.8GΩ	23.3GΩ	-	-	OK

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III. AUTOMATIC CIRCUIT RECOSER

Item Checked↓ Remarks→	33KV ACR	11KV Feeders					
		8H	9I	10J	11K	12L	
01.Manufacturer	Schneider Electric	ENTEC	ENTEC	Chardon Korea	Cooper Power	Schneider Electric	
02.Control type	Numerical	Numerical	Numerical	Numerical	Numerical	Numerical	
03.SL.No	PB-2012-11-446869	2018-08-PR118080	2020-12-PR120120979	2016-7-10-CRMR7201610BG0766	2018-08-CP58FXD09037	PB-2010-02-394049	
04.Rating(,Amps)	630	625	625	630	630	630	
05.Curvesetting(phase) &time Multiply	IEC-NI	IEC-NI	IEC-NI	IEC-NI	IEC-NI	IEC-NI	
06.Curvesetting(ground) &time Multiply	IEC-NI	IEC-NI	IEC-NI	IEC-NI	IEC-NI	IEC-NI	
07.Bushings	√	√	√	√	√	√	
08.Tank/bpdy	√	√	√	√	√	√	
09.Operation Counter	√	√	√	√	√	√	
10.Op. Counter reding							
11.Battery Condition	√	√	√	√	√	√	
12.Mis-operation detect	√	√	√	√	√	√	
13.Moisture indication	√	√	√	√	√	√	
14.Misalignment/arcing	√	√	√	√	√	√	
15.Oil level indicator							
16.SF6 pressure(KPag)	√	√	√	√	√	√	
17.OIL strength(KV0							
18.Operation To Lockout	√	√	√	√	√	√	
19.FRAME/struction	√	√	√	√	√	√	
20.Servicing	√	√	√	√	√	√	
21.Oil changed	No	No	No	No	No	No	
22.SF6 gas added	√	√	√	√	√	√	
23.Control,S FUNCTION	√	√	√	√	√	√	
24.Load(MW)Norn Cond(off-Peak/Peak)							
25.Load(MW) Irri Cond(off-Peak/Peak)							

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IV. AUXILIARY EQUIPMENT:-**A. METER CABINET & CONTROL PANELS**

Item Checked↓ Remarks→	Remarks	ITEMS	Remarks
01.Wiring/Lighting/terminal Blocks/switches	√		
0.3Meter type:- Q-METER	√		

B.CURRENT & POTENTIAL TRANSFORMER

Item Checked↓ Remarks→	Current Transformer		Potential Transformer	
	R-Y	B-Y	R-Y	B-Y
01.Manufacturer				
02.SL.No				
03.Ratio(Put √ for ratio used)				
04.Bushing contaminated	√	√	√	√
05.Bushing broken or Cracked	√	√	√	√
06.Connection loose corroded	√	√	√	√
07.tank/bodydamaged or leak	√	√	√	√
08.OIL level/STRENGTH(KV)				
09. Megger results(MΩ)				

V. SURGE ARRESTERS(Power Transformer)

Item Checked	Remarks→	Red phase		Yellow phase		Blue phase	
		33KV	11 KV	33 KV	11 KV	33 KV	11 KV
01.Manufacturer							
02.SL.No							
03.Rating(KV)	Rating MCOV						
04. Megger results(MΩ)							
05.Porcelain,broken /Cracked		√	√	√	√	√	√

VI. ISOLATION SWITCHES (199&166)

Items Check↓ Rem→	Item Checked	Remarks→
01.Liver/Handle	√	
02.Blade,contacts	√	
03.Smooth operation	√	
04.Ground connection	√	

VII. ISOLATION SWITCHES (299&266)

Items Check↓ Rem→	Item Checked	Remarks→
01.Liver/Handle	√	
02.Blade,contacts	√	
03.Smooth operation	√	
04.Ground connection	√	

AGM(O&M)
Tangail PBSDGM
Tangail PBSAssistant Engineer
BREB, TangailExecutive Engineer
BREB Tangail**VIII. 33 KV FUSES**

REB FORM NO.-455(SUBSTATION PERIODIC INSPECTION AND MAINTENANCE FORM)

PBS: Tangail Substation: Nagorpur-1 CAPACITY = 25/33 MVA

Date of Commission:- Date of Augmentation:- Date of maintenance:- 18/11/23

PUT TICK (√) MARK BY ITEM INSPECTED OR MAINTAINED

Items CHECK↓ Rem→	R-Φ	Y-Φ	B-Φ	Items CHECK↓ Rem→	RΦ	YΦ	BΦ
01.Manufacturer				05.Base& mOUNTING	√	√	√
02.Rating(AMPS				06.Smooth opration	√	√	√
03.Fuse link/barrel				07.Alignment	√	√	√
04.Contacts	√	√	√	08.Connection	√	√	√

IX. INSULATORS

Items Chack↓ Rem→		Items Chack↓ Remarks→		Items Chack↓ Rem→	
01Porcelain broken/crack	√	02. Metal parts/base/ mounting	√	03. Washing&cleaning	√

X.PROTECTIVE LIGHTING

Items Ch.	Remarks	Items Chacked	Remarks	Items Chacked	Remarks
Glassware	√	Photo electric cell assembly	√	Conduit/fitting/fixtures	√

XI. STRUCTURES(WOODEN)

ITEMS(Steel Structure)	Remarks	ITEMS (Wooden pole	Remarks
01.Painting performed	√	01. Condition of poles	√
02.Rust removed	√	02. Condition of Cross arm	√
03.Loose broken& missing	√	03. Condition of guy/anchor	√

XII.PAD& FOUNDATION

ITEMS	Remarks	ITEMS	Remarks
01.Steel Structure foundation	√	02.X-former pad	√
03.v.r. pad	√	04.OCR/ACR pad	√

XIII.SUBSTATION YARD

ITEMS	Remarks	ITEMS	Remarks
01.Fencw/painting/intactness	√	02.Leveling/Slope/road	√
03.Gate & its opration	√	04. Locks&keys	√
05.Weed/flooding	√	06.WARNING SIGNS	√

XIV.GROUNDING SYSTEM

ITEMS	Remarks	ITEMS	Remarks
01.Connections loose or corroded	√	02.Grounding resistance measurement	√

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