

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

PBS: Tangail Substation: Shokhipur CAPACITY = 10 MVA
 Date of Commission:- Date of Augmention:- Date of maintenance:-11/12/2024

PUT TICK (✓) MARK BY ITEM INSPECTED OR MAINTAINED→↓

1. POWER TRANSFORMER

ITEMS CHECKED		Bank-1
01.Manufacture		Confidance
02.SI No		93
03.Bushing chipped/broken/cracked		✓
04.Record level oil		Medium
05. Temperature gauge (winding)	(Present (°C)	25
	(Max (°C)	60
06. Temperature gauge (Oil)	(Present (°C)	22
	(Max (°C)	60
07.Record gas pressure (kg/cm2/lbs/in2		N/A
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)		60.7
14.Connection loose or corroded		✓
15.240Volt power supply & wiring		✓
16.% Impedance		8.13
17.Tapchanger position		3
18.Vector Grop		Dyn 1

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

Bank	H1/H2/H3	X1/X2/X3	HT-LT	HT-BODY	LT-BODY	Amp(NL)	Amp(Load)	Remarks
	0	0	86.7 GΩ	88.2 GΩ	46 GΩ	-	-	-

II. VOLTAGE REGULATOR

01.Manufacturer	TOSHIBA	TOSHIBA	TOSHIBA
02.SL.No	F20179	F20181	F20164
03.Control type	Numerical	.	.
04.Rating(KVA,Ampere)	656	656	656
05.Bushing contamination	✓	✓	✓
06.Bushing chipped,broken orcracked	✓	✓	✓
07.Record level of oil	Medium	Medium	Medium
08.Connection loose or corroded	✓	✓	✓
09.Oil tank damage or leaking	✓	✓	✓
10.Dielectric strength of oil (KV)	60.7	60.8	61.9
11.Operation Counter reading	65726	45597	58531
12.Control panel seetting:- Voltage level = 120V, Bandwidth =4.0V, Time deley = 60Sec			
13. Megger results(MΩ)(Tested By 5KV Inssulation Tester)			

Phase(Φ)	S/L/SL	S/Body	L/Body	SL/Body	Amp(NL)	Amp(Load)	Remarks
R	0	56.7 GΩ	69.6 GΩ	77.8 GΩ	-	-	-
Y	0	43.5 GΩ	43.8 GΩ	51.8 GΩ	-	-	-
B	0	37.1 GΩ	46.6 GΩ	47.3 GΩ	-	-	-

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III. AUTOMATIC CIRCUIT RECOSER

Item Checked↓ Remarks→	33KV ACR	11KV Feeders					
		1A	2B	3C	4D		
01.Manufacturer	ENTEC	ENTEC	ENTE C	ENTEC	Schneider		
02.Control type	EvrC2A- NT	EVRC2A -NT	EVRC2 A-NT	EVRC2A-NT			
03.SL.No	PR320090 413	PR12005 0167	PR1240 50712	PR12005013 9	415428		
04.Rating(,Amps)	630	630	630	630	630		
05.Curvesetting(phase) &time Multiply	IEC-SI	IEC-SI	IEC-SI	IEC-SI	IEC-SI		
06.Curvesetting(ground) &time Multiply	IEC-SI	IEC-SI	IEC-SI	IEC-SI	IEC-SI		
07.Bushings	✓	✓	✓	✓	✓		
08.Tank/bpdy	✓	✓	✓	✓	✓		
09.Operation Counter	✓	✓	✓	✓	✓		
10.Op. Counter reding	526	2220	701	7368	9114		
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	N/A	N/A	N/A	N/A	N/A		
22.SF6 gas added	N/A	N/A	N/A	N/A	N/A		
23.Control,S FUNCTION	✓	✓	✓	✓	✓		
24.Load(MW)Norn Cond(off-Peak/Peak)	3.5/4.5	.3/.3	1.2/1.8	1.0/1.3	1.0/1.1		
25.Load(MW) Irri Cond(off-Peak/Peak)	6.0/8.5	.3/.5	2.4/3.0	1.8/2.7	1.5/2.3		

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IV. AUXILIARY EQUIPMENT:-

A. METER CABINET & CONTROL PANELS

Item Checked↓ Remarks→	Remarks	ITEMS	Remarks
01.Wiring/Lighting/terminal Blocks/switches	✓		
03.Meter type:- E-METER	✓		

B.CURRENT& POTENTIAL TRANSFORMER

Item Checked↓ Remarks→	Current Transformer			Potential Transformer		
	R	Y	B	R	Y	B
01.Manufacturer	TS	TS	TS	TS	TS	TS
02.SL.No	21-00303	21-00302	21-00318	21-00397	21-00393	21-00277
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)	32 GΩ	27 GΩ	33 GΩ	26 GΩ	28 GΩ	24 GΩ

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		CG	CG	CG	CG	CG	CG
02.SL.No		243488	X440870	243476	X440867	243462	X440803
03.Rating(KV)	Rating	30	10	30	10	30	10
	MCOV	25	7.65	25	7.65	25	7.65
04. Megger results(MΩ)		51.5 GΩ	10.96 GΩ	59.7 GΩ	8.79 GΩ	61.00 GΩ	15.24 GΩ
05.Porcelain,broken /Cracked		✓	✓	✓	✓	✓	✓

VI. ISOLATION SWITCHES (199&166)

Items Chack↓ Rem→	Item Checked	Remarks→
01.Liver/Handle		✓
02.Blade,contacts		✓
03.Smooth opration		✓
04.Ground connection		✓

VII. ISOLATION SWITCHES (299&266)

Items Chack↓ Rem→	Item Checked	Remarks→
01.Liver/Handle		✓
02.Blade,contacts		✓
03.Smooth opration		✓
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	CG	CG	CG	05.Base& mOUNTING	√	√	√
02.Rating(AMPS	100	100	100	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	0.06Ω

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