

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

PBS: Tangail Substation :Basail CAPACITY = 20 MVA

Date of Commission:- Date of Augmention:- Date of maintenance:-11/12/24

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

**1. POWER TRANSFORMER**

ITEMS CHECKED↓ REMARKS→	BANK-1		BANK-2		B-φ		Spare	
	1	2	1	2	1	2	1	2
01.Manufacture	1	TS	1	Phasa	1	-	1	-
02.SI No.(as per previous connection)	1	53	1	13	1		1	
	2	-	2		2		2	
03.SI No.(as per new connection)	1	-	1		1		1	
	2		2		2		2	
Item checked for the Phases of		√		√				
04. Bushing chipped/broken/cracked		√		√				
05.Record level oil		.		.				
06.Winding temperature (Present C)		35		32				
(Max C)		48		65				
07.Oil/liquid temperature (Present)		35		34				
(Max)		38		66				
08.Record gas pressure(kg/cm2/lbs/in2)		.		.				
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)		56.7		60.7				
14.Connection loose or corroded		√		√				
15.240Volt power supply & wiring		√		√				
16.% Impedance		8.19		8.12				
17.Tapchanger position		7		3			-	-

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

Phase(φ)	H1-H2	X1-X	HT-LT	HT-BDY	LT-BDY	L/A	Amp(NL)	Amp(Load)	Remarks
R1	0	0	8 GΩ	7.54 GΩ	1.10 GΩ	26 GΩ	-	-	-
R2						24 GΩ			
Y1	0	0	20 GΩ	18.26 GΩ	15.33 GΩ	25 GΩ			
Y2						13 GΩ			
B1						16 GΩ			
B2						12 GΩ			
SPR									

19.Bushing as viewed from HT(33KV) side and Lt(11KV)side are as follows:-  H1  H2  X1  X2

20.SI.No(as installed,33KV→11KV)									
21.φIdentification-									
Rφ:-	φ→H1,	φ→H2	X	→	φ	X	is	grounded	
Rφ:-	φ→H1,	φ→H2	X	→	φ	X	is	grounded	
Rφ:-	φ→H1,	φ→H2	X	→	φ	X	is	grounded	

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**1. POWER TRANSFORMER**

ITEMS CHECKED↓	REMARKS→	R-Φ	Y-Φ	B-Φ	Spare
01.Manufacture		TS	Pasha		
02.SI No.(as per previous connection)		053	13		
03.SI No.(as per new connection)		-	-		
Item checked for the Phases of		.	.		
04. Bushing chipped/broken/cracked		√	√		
05.Record level oil		Medium	Medium		
06.Winding temperature (Present °C)		34	32		
Max (°C)		49	65		
07.Oil/liquid temperature Present (°C)		36	34		
Max (°C)		55	66		
08.Record gas pressure (kg/cm2/lbs/in2)		N/A	N/A		
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)		56.7	60.7		
14.Connection loose or corroded		√	√		
15.240Volt power supply & wiring		√	√		
16.% Impedance		8.19	8.12		
17.Tapchanger position		7	3		

**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	8 GΩ	7.54 GΩ	1.10 GΩ	26 GΩ	-	-	-
Y	0	0	20 GΩ	18.26 GΩ	15.33 GΩ	25 GΩ	-	-	-
B	-	-	-	-	-	-	-	-	-
SPR	-	-	-	-	-	-	-	-	-

**II.VOLTAGE REGULATOR**

ITEMS CHECKED↓	REMARKS→	R-Phase	Y-Phase	B-Phase
01.Manufacturer		R-Phase(copper power)	Y- Phase(copper power)	B- Phase(Toshiba)
02.SL.No		650021549	1550008813	F16914
03.Control type		Numerical	Numerical	Numerical
04.Rating(KVA,Ampere)		668	656	656
05.Bushing contamination		√	√	√
06. .Bushing contamination		√	√	√
07.Record level of oil		√	√	√
08.Connection loose or corroded		√	√	√
09.Oil tank damage or leaking		√	√	√
10.Dielectric strength of oil (KV)		60.7	60.7	60.7
11.Operation Counter reading				18218
12.Control panel setting:- 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	2.78 GΩ	2.89 GΩ	2.98 GΩ	-	-	-
Y	0	4.55 GΩ	4.8 GΩ	4.32 GΩ	-	-	-
B	0	23.8 GΩ	20.1 GΩ	21.8 GΩ	-	-	-

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**1. POWER TRANSFORMER Unit-1**

ITEMS CHECKED		Bank-1
01.Manufacture		TS
02.SI No		053
03.Bushing chipped/broken/cracked		-
04.Record level oil		Medium
05. Temperature gauge (winding )	(Present (°C)	34
	(Max (°C)	49
06. Temperature gauge (Oil )	(Present (°C)	36
	(Max (°C)	55
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)		56.7
14.Connection loose or corroded		✓
15.240Volt power supply & wiring		✓
16.% Impedance		8.19
17.Tapchanger position		7
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
Bank-1	0	0	8 GΩ	7.54 GΩ	1.10 GΩ	-	-	-

**II. VOLTAGE REGULATOR**

01.Manufacturer	R-Phase(copper power)	Y- Phase(copper power)	B- Phase(Toshiba)
02.SL.No	650021549	1550008813	F16914
03.Control type	Numerical	Numerical	Numerical
04.Rating(KVA,Ampere)	668	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)	60.7	60.7	60.7
11.Operation Counter reading	N/A	N/A	18218
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	2.78 GΩ	2.89 GΩ	2.98 GΩ	-	-	-
Y	0	4.55 GΩ	4.8 GΩ	4.32 GΩ	-	-	-
B	0	23.8 GΩ	20.1 GΩ	21.8 GΩ	-	-	-

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**1. POWER TRANSFORMER Unit-2**

ITEMS CHECKED		Bank-2
01.Manufacture		Pasha
02.SI No		13
03.Bushing chipped/broken/cracked		.
04.Record level oil		Medium
05. Temperature gauge (winding )	(Present (°C)	36
	(Max (°C)	64
6. Temperature gauge (Oil )	(Present (°C)	37
	(Max (°C)	65
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)		60.7
14.Connection loose or corroded		√
15.240Volt power supply & wiring		√
16.% Impedance		8.12
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-BDY	LT-BDY	Amp(NL)	Amp(Load)	L/A(33KV)
Bank-2	0	0	20 GΩ	18.26 GΩ	15.33 GΩ	-	-	-

**II VOLTAGE REGULATOR**

ITEMS CHECKED	R-Phase	Y-Phase	B-Phase
01.Manufacturer	TOSHIBA	TOSHIBA	TOSHIBA
02.SL.No	F19645	F19636	F19632
03.Control type	Numerical	Numerical	Numerical
04.Rating(KVA,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)	60.7	60.7	60.7
11.Operation Counter reading	110316	111178	111899
12.Control panel seetting:- Voltage level = 120V, Bandwidth =3.0V, Time deley = 45Sec			

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	1.5 GΩ	1.55 GΩ	1.51 GΩ	-	-	-
Y	0	3.44 GΩ	3.27 GΩ	2.94 GΩ	-	-	-
B	0	1.99 GΩ	2.27 GΩ	2.01 GΩ	-	-	-

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**1. POWER TRANSFORMER**

ITEMS CHECKED		Bank-1	Bank-2
01.Manufacture		TS	Pasha
02.SI No		053	13
03.Bushing chipped/broken/cracked		-	.
04.Record level oil		Medium	Medium
05. Temperature gauge (winding )	(Present (°C)	34	36
	(Max (°C)	49	64
06. Temperature gauge (Oil )	(Present (°C)	36	37
	(Max (°C)	55	65
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)		56.7	60.7
14.Connection loose or corroded		√	√
15.240Volt power supply & wiring		√	√
16.% Impedance		8.19	8.12
17.Tapchanger position		7	3
18.Vector Grop		Dyn 1	Dyn 1

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
Bank-1	0	0	8 GΩ	7.54 GΩ	1.10 GΩ	-	-	-
Bank-2	0	0	20 GΩ	18.26 GΩ	15.33 GΩ	-	-	-

**II. VOLTAGE REGULATOR**

01.Manufacturer	R-Phase(copper power)	Y- Phase(copper power)	B- Phase(Toshiba)
02.SL.No	650021549	1550008813	F16914
03.Control type	Numerical	Numerical	Numerical
04.Rating(KVA,Ampere)	668	656	656
05.Bushing contamination	√	√	√
06.Bushing chipped,broken orcrac	√	√	√
07.Record level of oil	√	√	√
08.Connection loose or corroded	√	√	√
09.Oil tank damage or leaking	√	√	√
10.Dielectric strength of oil (KV)	60.7	60.7	60.7
11.Operation Counter reading	N/A	N/A	18218
12.Control panel seetting:- Voltage level = 120V, Bandwidth =4.0V, Time deley = 45 Sec			

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	2.78 GΩ	2.89 GΩ	2.98 GΩ	-	-	-
Y	0	4.55 GΩ	4.8 GΩ	4.32 GΩ	-	-	-
B	0	23.8 GΩ	20.1 GΩ	21.8 GΩ	-	-	-

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**II. VOLTAGE REGULATOR**

01.Manufacturer	TOSHIBA	TOSHIBA	TOSHIBA
02.SL.No	F19645	F19636	F19632
03.Control type	Numerical	Numerical	Numerical
04.Rating(KVA,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)	60.7	60.7	60.7
11.Operation Counter reading	111060	111178	112638
12.Control panel setting:- 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	1.5 GΩ	1.55 GΩ	1.51 GΩ	-	-	-
Y	0	3.44 GΩ	3.27 GΩ	2.94 GΩ	-	-	-
B	0	1.99 GΩ	2.27 GΩ	2.01 GΩ	-	-	-

**III. AUTOMATIC CIRCUIT RECOSER**

Item Checked↓ Remarks→	33KV ACR	33KV ACR	11KV Feeders					
			1A	2B	3C	4D	5E	6F
01.Manufacturer	NULEC	ENTEC	Cooper	Cooper	Cooper	Cooper	Entec	Entec
02.Control type	PB-2011-07	Evr2A-NT	NOVAI15i	NOVAI15i	NOVAI15i	NOVAI15i	Eurc2A-NT	Eurc2A-NT
03.SL.No	446035	PR319030357	CP5816108	CP5816191	CP5816129	CP5821378	PR1130100004	PR119010122
04.Rating(,Amps)	630	630	630	630	630	630	630	630
05.Curvesetting(phase) &time Multiply	IEC-SI	IEC-SI	IEC-SI	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	IEC-SI	IEC-SI	IEC-SI
07.Bushings	✓	✓	✓	✓	✓	✓	✓	✓
08.Tank/bpdy	✓	✓	✓	✓	✓	✓	✓	✓
09.Operation Counter	✓	✓	✓	✓	✓	✓	✓	✓
10.Op. Counter reding	N/A	387	2226	6759	7342	2754	10183	8864
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	N/A	N/A	N/A
22.SF6 gas added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
23.Control,S FUNCTION	✓	✓	✓	✓	✓	✓	✓	✓
24.Load(MW)Norn Cond(off-Peak/Peak)	4/5	3.2/5.5	.2/.5	1.5/2.5	1/1.5	1/1.4	1.5/2	2/2.2
25.Load(MW) Irri Cond(off-Peak/Peak)	6/7	7.5/8.5	.5/.75	4/5.3	3/3.5	1.5/2	2/2.5	2.5/4

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

Item Checked↓ Remarks→	Remarks	ITEMS	Remarks
01.Wiring/Lighting/terminal Blocks/switches	✓		
0.3Meter type:- Energy-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	20-00162	20-00160	20-00161	20-00123	20-00124	20-00122
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 )	25 GΩ	22 GΩ	26 GΩ	24 GΩ	25 GΩ	28 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		CRG	CRG	CRG	CRG	CRG	CRG
02.SL.No		242898	242971	242923	242970	242900	242969
03.Rating(KV)	Rating	30	10	30	10	30	10
	MCOV	26	84	26	84	26	84
04. Megger results(MΩ )		22 GΩ	10 GΩ	23 GΩ	12 GΩ	25 GΩ	11 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	0.07Ω

AGM(O&M)  
Tangail PBS

Assistant Engineer  
BREB, Tangail

Executive Engineer  
BREB Tangail



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

PBS: Tangail Substation :Basail CAPACITY = 20 MVA

Date of Commission:- Date of Augmention:- Date of maintenance:-11/12/24

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

**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	0.2Ω

AGM(O&M)  
Tangail PBSAssistant Engineer  
BREB, TangailExecutive Engineer  
BREB Tangail