



ঢাকা পানি সরবরাহ ও পয়ঃ নিষ্কাশন কর্তৃপক্ষ

Office of the Executive Engineer
FM Division-2, Dhaka WASA

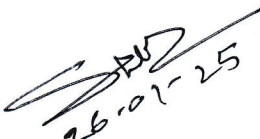
Inspection & Test Report

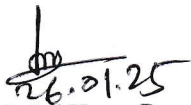
Name of work: Reconditioning of 10(Ten) Nos. different branded and capacities defective burnt Transformers under F.M.D-2, DWASA (Lot-1).

Name of Contractor: M/S. N.S. Enterprise

Contract No: 46.05.0000.424.37.055.24.04.007, Date: 30-10-2024.

PHYSICAL REPORT			EXPERIMENTAL REPORT (INSULATION RESULT)				
Sl No	Name of Transformer	KVA Rating	HT	SIDE	LT	SIDE	HT-LT
			phase to phase (MΩ)	phase to Body (MΩ)	phase to phase (MΩ)	phase to Body (MΩ)	phase to phase (MΩ)
01.	GEMCO 16-17-027	200	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	Y-y=1000 R-r=1000 B-b=1000
02.	GEMCO 231353	200	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	Y-y=1000 R-r=1000 B-b=1000
03.	GEMCO 012532	200	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	Y-y=1000 R-r=1000 B-b=1000
04.	GEMCO 989-300	200	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	Y-y=1000 R-r=1000 B-b=1000
05.	Satco 200/286	200	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	Y-y=1000 R-r=1000 B-b=1000
06.	AHK 200/70	200	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	Y-y=1000 R-r=1000 B-b=1000
07.	MAM Power 1005	150	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	Y-y=1000 R-r=1000 B-b=1000
08.	MAM Power 1016	150	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	Y-y=1000 R-r=1000 B-b=1000
09.	GEMCO 16-17-016	150	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	Y-y=1000 R-r=1000 B-b=1000
10.	Techno 150-006	150	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	R-Y=0 Y-B=0 B-R=0	R-E=1000 Y-E=1000 B-E=1000	Y-y=1000 R-r=1000 B-b=1000


26.10.25
Md. Shahadat Hossain
Sub-Asstt. Engineer
FM Division-2
Dhaka WASA


26.10.25
Md Mahabubul Haque Pramanik
Asstt. Engineer
FM Division-2
Dhaka WASA


26/10/25
Sk. Arif Rahman Jetu
Executive Engineer
FM Division-2
Dhaka WASA



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TRANSFORMER TEST REPORT

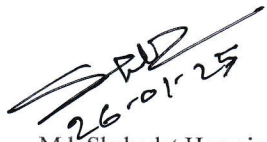
Rating	200 KVA	Type of Cooling	ONAN	Phase:	3	Hz	50
Primary			11 KV				10.50 Amps
Secondary			0.415 KV				278.25 Amps

Sl.No.	Resistance At 75° C		No Load Current (A)	No Load Loss (W)	No Loss at 75° C (W)	Total Loss (W)	% of Impedance at 75° C	% of Regulation at unity PF	% of Efficiency at unity PF
16-17-027	HV	LV							
GEMCO	-	-	1.415	350	2300	2650	4	0.894	98.49

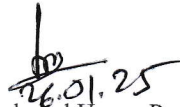
Insulation Resistance	Measured by 1000 MΩ meter at 28° C	H.V to L.V	H.V to Ground	H.V to Ground
		1000 MΩ	1000 MΩ	1000 MΩ

Ratio	Phase A	Phase B	Phase C	Specified	Polarity	Vector group
	45.909	45.909	45.909	45.909	Subtractive	DYN-11

Measurement of dielectric strength of oil	Testing method	Electrode Gap	Breakdown voltage	Remark
	BS-148	2.5mm	49 KV	Satisfactory


26.01.25

Md. Shahadat Hossain
Sub-Asstt. Engineer
FM Division-2
Dhaka WASA


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FM Division-2
Dhaka WASA



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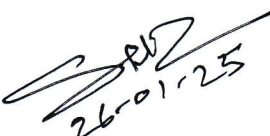
Rating	200 KVA	Type of Cooling	ONAN	Phase:	3	Hz	50
Primary		11 KV				10.49 Amps	
Secondary		0.415 KV				278.2 Amps	

Sl. No.	Resistance At 75°C		No Load Current (A)	No Load Loss (W)	No Loss at 75°C (W)	Total Loss (W)	% of Impedance at 75°C	% of Regulation at unity PF	% of Efficiency at unity PF
231353	HV	LV							
GEMCO	-	-	1.415	350	2350	2700	4	0.894	98.51

Insulation Resistance	Measured by 1000 MΩ meter at 28°C	H.V to L.V	H.V to Ground	H.V to Ground
		1000 MΩ	1000 MΩ	1000 MΩ

Ratio	Phase A	Phase B	Phase C	Specified	Polarity	Vector group
	45.909	45.909	45.909	45.909	Subtractive	DYN=11

Measurement of dielectric strength of oil	Testing method	Electrode Gap	Breakdown voltage	Remark
	BS-171	2.5mm	50 KV	Satisfactory


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FM Division-2
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Rating	200 KVA	Type of Cooling	ONAN	Phase:	3	Hz	50
Primary		11 KV				10.48 Amps	
Secondary		0.415 KV				278.25 Amps	

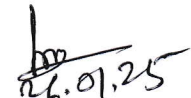
Sl.No.	Resistance At 75° C		No Load Current (A)	No Load Loss (W)	No Loss at 75° C (W)	Total Loss (W)	% of Impedance at 75° C	% of Regulation at unity PF	% of Efficiency at unity PF
012532	HV	LV							
GEMCO	-	-	1.415	350	2400	2750	4	0.894	98.51

Insulation Resistance	Measured by 1000 MΩ meter at 28° C	H.V to L.V	H.V to Ground	H.V to Ground
		1000 MΩ	1000 MΩ	1000 MΩ

Ratio	Phase A	Phase B	Phase C	Specified	Polarity	Vector group
	45.909	45.909	45.909	45.909	Subtractive	DYN-11

Measurement of dielectric strength of oil	Testing method	Electrode Gap	Breakdown voltage	Remark
	BS-148	2.5mm	48 KV	Satisfactory


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Rating	200 KVA	Type of Cooling	ONAN	Phase:	3	Hz	50
Primary		11 KV			10.48 Amps		
Secondary		0.415 KV			278.25 Amps		

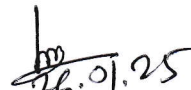
Sl.No.	Resistance At 75° C		No Load Current (A)	No Load Loss (W)	No Loss at 75° C (W)	Total Loss (W)	% of Impedance at 75° C	% of Regulation at unity PF	% of Efficiency at unity PF
989-300	HV	LV							
GEMCO	-	-	1.415	350	2400	2750	4	0.894	98.51

Insulation Resistance	Measured by 1000 MΩ meter at 28° C	H.V to L.V	H.V to Ground	H.V to Ground
		1000 MΩ	1000 MΩ	1000 MΩ

Ratio	Phase A	Phase B	Phase C	Specified	Polarity	Vector group
	45.909	45.909	45.909	45.909	Subtractive	DYN-11

Measurement of dielectric strength of oil	Testing method	Electrode Gap	Breakdown voltage	Remark
	BS-148	2.5mm	48 KV	Satisfactory


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FM Division-1, Dhaka WASA

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Rating	200 KVA	Type of Cooling	ONAN	Phase:	3	Hz	50
Primary		11 KV			10.50 Amps		
Secondary		0.415 KV			278.25 Amps		

Sl.No.	Resistance At 75° C		No Load Current (A)	No Load Loss (W)	No Loss at 75° C (W)	Total Loss (W)	% of Impedance at 75° C	% of Regulation at unity PF	% of Efficiency at unity PF
200/286	HV	LV							
Setco	-	-	1.415	350	2300	2650	4	0.894	98.49

Insulation Resistance	Measured by 1000 MΩ meter at 28° C	H.V to L.V	H.V to Ground	H.V to Ground
		1000 MΩ	1000 MΩ	1000 MΩ

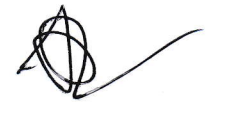
Ratio	Phase A	Phase B	Phase C	Specified	Polarity	Vector group
	45.909	45.909	45.909	45.909	Subtractive	DYN-11

Measurement of dielectric strength of oil	Testing method	Electrode Gap	Breakdown voltage	Remark
	BS-148	2.5mm	49 KV	Satisfactory


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Rating	200 KVA	Type of Cooling	ONAN	Phase:	3	Hz	50
Primary		11 KV			10.49 Amps		
Secondary		0.415 KV			278.2 Amps		

Sl. No.	Resistance At 75° C		No Load Current (A)	No Load Loss (W)	No Loss at 75° C (W)	Total Loss (W)	% of Impedance at 75° C	% of Regulation at unity PF	% of Efficiency at unity PF
200/70	HV	LV							
AHK	-	-	1.415	350	2350	2700	4	0.894	98.51

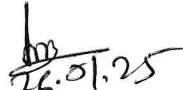
Insulation Resistance	Measured by 1000 MΩ meter at 28° C	H.V to L.V	H.V to Ground	H.V to Ground
		1000 MΩ	1000 MΩ	1000 MΩ

Ratio	Phase A	Phase B	Phase C	Specified	Polarity	Vector group
	45.909	45.909	45.909	45.909	Subtractive	DYN-11

Measurement of dielectric strength of oil	Testing method	Electrode Gap	Breakdown voltage	Remark
	BS-171	2.5mm	50 KV	Satisfactory


26.01.25

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26.01.25

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Dhaka WASA



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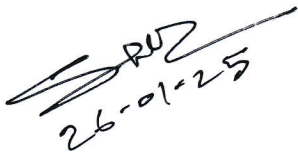
Rating	150 KVA	Type of Cooling	ONAN	Phase:	3	Hz	50
Primary		11 KV		7.87 Amps			
Secondary		0.415 KV		208.69 Amps			

Sl.No.	Resistance At 75° C		No Load Current (A)	No Load Loss (W)	No Loss at 75° C (W)	Total Loss (W)	% of Impedance at 75° C	% of Regulation at unity PF	% of Efficiency at unity PF
1005	HV	LV							
MAM Power			1.415	228	1590	1818	4	0.894	98.49

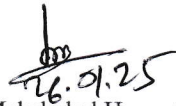
Insulation Resistance	Measured by 1000 MΩ meter at 28° C	H.V to L.V	H.V to Ground	H.V to Ground
		1000 MΩ	1000 MΩ	1000 MΩ

Ratio	Phase A	Phase B	Phase C	Specified	Polarity	Vector group
	45.909	45.909	45.909	45.909	Subtractive	DYN-11

Measurement of dielectric strength of oil	Testing method	Electrode Gap	Breakdown voltage	Remark
	BS-148	2.5mm	49 KV	Satisfactory


26-01-25

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26.01.25

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TRANSFORMER TEST REPORT

Rating	150 KVA	Type of Cooling	ONAN	Phase:	3	Hz	50
Primary		11 KV		7.87 Amps			
Secondary		0.415 KV		208.69 Amps			

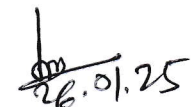
Sl.No.	Resistance At 75° C		No Load Current (A)	No Load Loss (W)	No Loss at 75° C (W)	Total Loss (W)	% of Impedance at 75° C	% Regulation at unity PF	% of Efficiency at unity PF
1016	HV	LV							
MAM POWER			1.415	230	1590	1820	4	0.894	98.48

Insulation Resistance	Measured by 1000 MΩ meter at 28° C	H.V to L.V	H.V to Ground	H.V to Ground
		1000 MΩ	1000 MΩ	1000 MΩ

Ratio	Phase A	Phase B	Phase C	Specified	Polarity	Vector group
	45.909	45.909	45.909	45.909	Subtractive	DYN-11

Measurement of dielectric strength of oil	Testing method	Electrode Gap	Breakdown voltage	Remark
	BS-148	2.5mm	48 KV	Satisfactory


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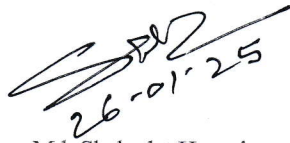
Rating	150 KVA	Type of Cooling	ONAN	Phase:	3	Hz	50
Primary		11 KV		7.88 Amps			
Secondary		0.415 KV		208.70 Amps			

Sl.No.	Resistance At 75° C		No Load Current (A)	No Load Loss (W)	No Loss at 75° C (W)	Total Loss (W)	% of Impedance at 75° C	% of Regulation at unity PF	% of Efficiency at unity PF
16-17-016	HV	LV							
GEMCO			1.415	225	1590	1815	4	0.894	98.50

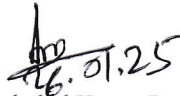
Insulation Resistance	Measured by 1000 MΩ meter at 28° C	H.V to L.V	H.V to Ground	H.V to Ground
		1000 MΩ	1000 MΩ	1000 MΩ

Ratio	Phase A	Phase B	Phase C	Specified	Polarity	Vector group
	45.909	45.909	45.909	45.909	Subtractive	DYN-11

Measurement of dielectric strength of oil	Testing method	Electrode Gap	Breakdown voltage	Remark
	BS-148	2.5mm	49 KV	Satisfactory


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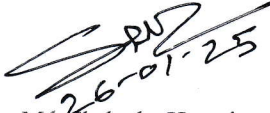
Rating	150 KVA	Type of Cooling	ONAN	Phase:	3	Hz	50
Primary		11 KV		7.87 Amps			
Secondary		0.415 KV		208.69 Amps			

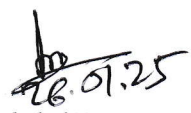
Sl.No.	Resistance At 75° C		No Load Current (A)	No Load Loss (W)	No Loss at 75° C (W)	Total Loss (W)	% of Impedance at 75° C	% of Regulation at unity PF	% of Efficiency at unity PF
150-006	HV	LV							
Tecno			1.415	230	1590	1820	4	0.894	98.48

Insulation Resistance	Measured by 1000 MΩ meter at 28° C	H.V to L.V	H.V to Ground	H.V to Ground
		1000 MΩ	1000 MΩ	1000 MΩ

Ratio	Phase A	Phase B	Phase C	Specified	Polarity	Vector group
	45.909	45.909	45.909	45.909	Subtractive	DYN-11

Measurement of dielectric strength of oil	Testing method	Electrode Gap	Breakdown voltage	Remark
	BS-148	2.5mm	48 KV	Satisfactory


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