



M/S. ASHA TRADERS

1st Class (Combined) Govt. Contractor PWD, LGED, Electrical, Mechanical and Civil (WASA)

Ref:

Date: 22/02/20



বরাবর,
নির্বাহী প্রকৌশলী
এফ এম বিভাগ-২, ঢাকা ওয়াসা।

বিষয়ঃ- চ(আট) টি জ্বলা ত্রুটিপূর্ণ ইলেকট্রিক ট্রান্সফরমার রিওয়াইভিং ও রিকন্ডিশনিং কাজ শেষে ট্রান্সফরমার টেস্ট রিপোর্ট পেশ করন প্রসঙ্গে।

সূত্র: স্বারক নং- ৪৬.০৫.০০০০.৪২৪.০৭.০০৬.২০২৩.৮১.০৩.০৩ তাং-০৭/০৮/২০২৩ইং

উপরোক্ত বিষয় ও সূত্রের পরিপ্রেক্ষিতে আলোচ্য কাজের মেরামতকৃত ট্রান্সফরমারগুলি ভারপ্রাপ্ত প্রকৌশলীগণের উপস্থিতিতে টেস্টিং প্রক্রিয়া সম্পন্ন করা হয়েছে। টেস্ট এ প্রাপ্ত তথ্য উপাত্তসহ ফলাফল লিপিবদ্ধ করতঃ এতদসংগে সংযুক্ত করা হল।

এমতাবস্থায়, বর্ণিত ট্রান্সফরমারগুলোর টেস্ট রিপোর্ট আপনার সদয় অবগতির নিমিত্তে পেশ করা হলো।

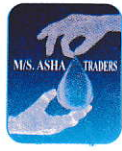
The test performed according to the right procedure. Where as the transformer parameters in at acceptable values with presence of engineer in charge. The test reports are attached for your kind acknowledgement and may see approve please.

OK
21.9.23

Proprietor

M/S. ASHA TRADERS

Proprietor



M/S. ASHA TRADERS

1st Class (Combined) Govt. Contractor PWD, LGED, Electrical, Mechanical and Civil (WASA)

Ref:

Date:

FACTORY TEST CERTIFICATE

Customer	Dhaka WASA Field Maintenance Division-02 (F.M.D-02) Address: Darus Salam Road, Near Govt. Bangla College, Dhaka-1216.				
Manufacturer	SATCO				
Repaired & Tested By	M/S. ASHA TRADERS Add: 261/E East Nakal Para, Dhaka				
Year of Manufacturing: 2010		Serial No. 200/188		Date of Test: 20.09.2023	
Rate Voltage at no Load	HT	11000V	Rated Current	HT 10.49 Amperes	
	LT	415/240V		LT 278.2 Amperes	
KVA Rating	200	No. of Phases	3	Tapping	1 +2.5%
Type of cooling	ONAN	Impedance Voltage	4%		2 0%
Vector Group	DYn 11				3 -2.5%
Standard	BS-171/IEC-76				4 -5%
Frequency	50Hz				5 -7.5%

1. WINDING RESISTANCE MEASUREMENT

HT Side (Phase to Phase) Resistance in Ohms				LT Side (Phase to Phase) Resistance in Ohms			
Phase	Measured at Room Temp 30 °C	Measured at 75 °C		Phase	Measured at Room Temp 30 °C	Measured at 75 °C	
A-B	10.4	12.16			0.0039	0.0045	
B-C	10.3	12.04			0.0038	0.0044	
C-A	10.5	12.28			0.0040	0.0046	

2. TURN RATIO

Tap Position	Specified Value	Observed Values	Deviation	Allowable Deviation	Remark.
I	9.41 x 5	9.41 x 5	-14 -.06 -.10	±0.5%	Satisfactory
II	9.18 x 5	9.18 x 5	-.16 -.08 -.10		
III	8.95 x 5	8.95 x 5	-20 -.06 -.08		
IV	8.72 x 5	8.72 x 5	-.16 -.06 -.08		
V	8.49 x 5	8.49 x 5	-.04 -.08 -.08		

Signature
20/9/23

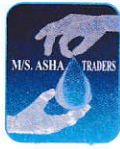
রঞ্জন বড়ুয়া
উপ-সহকারী প্রকৌশলী
গ্রন্থ-এম বিভাগ-২, ঢাকা ওয়াসা

Signature
20.9.23

Signature
20/9/23

M/s Asha Traders

Signature
Proprietor



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1st Class (Combined) Govt. Contractor PWD, LGED, Electrical, Mechanical and Civil (WASA)

Ref :

Date:

3. NO LOAD LOSS AT PRINCIPAL TAP

APPLIED VOLTS	MULTIPLYING FACTOR	WATTMETER READING (WATTS)		MEASURED IN WATTS (W2-W1)x8	
		W1	W2		
415	8	78	133	(133-78)x8=440	

4. LOAD LOSS AT PRINCIPAL TAP

Room Temperature: 30 °C

VOLTS	CURRENT IN AMPS. CTR 25/5=5	WATTMETER READING (WATTS)		MEASURED (W1-W2)x8x5 IN WATTS	CORRECTED LOSS AT 75°C IN WATTS	
		W1	W2			
376	2.10x5	10	79	(79-10)x8x5=2750		

5. VACTOR GROUP TEST

SUPPLY VOLTAGE (THREE PHASE)	VOLTAGE BETWEEN	VALUE OF VOLTAGE (IN VOLTS)
400 VOLTS (C & c Shorted)	A-a	381
	A-b	381
	B-a	392
	B-b	380

6. INSULATION RESISTANCE TEST

- a) Magger : China
- b) Temperature : 30 °C
- c) Applied Volt : 1000V

CONNECTIONS	VALUE IN MΩ
HT to Earth	1000 Above OK.
LT to Earth	1000 Above OK.
HT to LT	1000 Above OK.

7. DIELECTRIC STRENGTH OF OIL(2.5mm Electrode Gap)

BREAKDOWN AT : 50 KV

8. POWER FREQUENCY WITHSTAND TEST

L.T. SIDE: 2.5 KV (60 Sec) Withstood.(Leakage current 0.50 mA) OK.

H.T. SIDE: 28 KV (60 Sec) Withstood.(Leakage current 0.50 mA) OK.

9. INDUCED OVER VOLTAGE TEST

:830 Volts of L.V. side for 1 Min at 100 Hz With stood. OK.

10. Percentage of Impedance Voltage at 75 °C= 4%

Test Performed by:

Test Witnessed

Signature
20/9/23

রজন বড়ুয়া
উপ-সহকারী প্রকৌশলী
৩২ এম বিভাগ-২, ঢাকা ওয়াসা

Signature
20/9/23

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Date:

FACTORY TEST CERTIFICATE

Customer	Dhaka WASA Field Maintenance Division-02 (F.M.D-02) Address: Darus Salam Road, Near Govt. Bangla College, Dhaka-1216.				
Manufacturer	Tecnoventure Ltd.				
Repaired & Tested By	M/S. ASHA TRADERS Add: 261/E East Nakal Para, Dhaka				
Year of Manufacturing: 2012		Serial No. 150/002		Date of Test: 20.09.2023	
Rate Voltage at no Load	HT	11000V	Rated Current	HT	10.49 Amperes
	LT	415/240V		LT	278.2 Amperes
KVA Rating	200	No. of Phases	3	Tapping	1 +2.5%
Type of cooling	ONAN	Impedance Voltage	4%		2 0%
Vector Group	DYn 11				3 -2.5%
Standard	BS-171/IEC-76				4 -5%
Frequency	50Hz				5 -7.5%

1. WINDING RESISTANCE MEASUREMENT

HT Side (Phase to Phase) Resistance in Ohms				LT Side (Phase to Phase) Resistance in Ohms			
Phase	Measured at Room Temp 30 °C	Measured at 75 °C		Phase	Measured at Room Temp 30 °C	Measured at 75 °C	
A-B	10.4	12.16			0.0039	0.0045	
B-C	10.3	12.04			0.0038	0.0044	
C-A	10.5	12.28			0.0040	0.0046	

2. TURN RATIO

Tap Position	Specified Value	Observed Values	Deviation	Allowable Deviation	Remark.
I	9.41 x 5	9.41 x 5	-14 -.06 -.10	±0.5%	Satisfactory
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IV	8.72 x 5	8.72 x 5	-.16 -.06 -.08		
V	8.49 x 5	8.49 x 5	-.04 -.08 -.08		

Signature
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রঞ্জন বড়ুয়া
উপ-সহকারী প্রকৌশলী

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Signature
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M/s Asha Traders

Proprietor



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1st Class (Combined) Govt. Contractor PWD, LGED, Electrical, Mechanical and Civil (WASA)

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Date:

3. NO LOAD LOSS AT PRINCIPAL TAP

APPLIED VOLTS	MULTIPLYING FACTOR	WATTMETER READING (WATTS)		MEASURED IN WATTS (W2-W1)x8	
		W1	W2		
415	8	80	131	(131-80)x8=408	

4. LOAD LOSS AT PRINCIPAL TAP

Room Temperature: 30 °C

VOLTS	CURRENT IN AMPS. CTR 25/5=5	WATTMETER READING (WATTS)		MEASURED (W1-W2)x8x5 IN WATTS	CORRECTED LOSS AT 75°C IN WATTS	
		W1	W2			
376	2.10x5	12	80	(80-12)x8x5=2720		

5. VACTOR GROUP TEST

SUPPLY VOLTAGE (THREE PHASE)	VOLTAGE BETWEEN	VALUE OF VOLTAGE (IN VOLTS)
400 VOLTS (C & c Shorted)	A-a	381
	A-b	381
	B-a	392
	B-b	380

6. INSULATION RESISTANCE TEST

- a) Magger : China
b) Temperature : 30 °C
c) Applied Volt : 1000V

CONNECTIONS	VALUE IN MΩ
HT to Earth	1000 Above OK.
LT to Earth	1000 Above OK.
HT to LT	1000 Above OK.

7. DIELECTRIC STRENGTH OF OIL(2.5mm Electrode Gap)

BREAKDOWN AT : 50 KV

8. POWER FREQUENCY WITHSTAND TEST

L.T. SIDE: 2.5 KV (60 Sec) Withstood.(Leakage current 0.50 mA) OK.

H.T. SIDE: 28 KV (60 Sec) Withstood.(Leakage current 0.50 mA) OK.

9. INDUCED OVER VOLTAGE TEST

:830 Volts of L.V. side for 1 Min at 100 Hz With stood. OK.

10. Percentage of Impedance Voltage at 75 °C= 4%

Test Performed by:

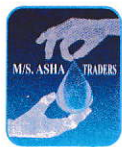
Test Witnessed

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উপ সহকারী প্রকৌশলী

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Signature
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M/s Asha Traders
Signature
Proprietor



M/S. ASHA TRADERS

1st Class (Combined) Govt. Contractor PWD, LGED, Electrical, Mechanical and Civil (WASA)

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Date:

FACTORY TEST CERTIFICATE

Customer	Dhaka WASA Field Maintenance Division-02 (F.M.D-02) Address: Darus Salam Road, Near Govt. Bangla College, Dhaka-1216.				
Manufacturer	Power Mann				
Repaired & Tested By	M/S. ASHA TRADERS Add: 261/E East Nakal Para, Dhaka				
Year of Manufacturing: 2013		Serial No. 05		Date of Test: 20.09.2023	
Rate Voltage at no Load	HT	11000V	Rated	HT 10.49 Amperes	
	LT	415/240V	Current	LT 278.2 Amperes	
KVA Rating	200	No. of Phases	3	Tapping	1 +2.5%
Type of cooling	ONAN	Impedance Voltage	4%		2 0%
Vector Group	DYn 11				3 -2.5%
Standard	BS-171/IEC-76				4 -5%
Frequency	50Hz				5 -7.5%

1. WINDING RESISTANCE MEASUREMENT

HT Side (Phase to Phase) Resistance in Ohms				LT Side (Phase to Phase) Resistance in Ohms			
Phase	Measured at Room Temp 30 °C	Measured at 75 °C		Phase	Measured at Room Temp 30 °C	Measured at 75 °C	
A-B	10.4	12.16			0.0039	0.0045	
B-C	10.3	12.04			0.0038	0.0044	
C-A	10.5	12.28			0.0040	0.0046	

2. TURN RATIO

Tap Position	Specified Value	Observed Values	Deviation	Allowable Deviation	Remark.
I	9.41 x 5	9.41 x 5	-14 -.06 -.10	±0.5%	Satisfactory
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Signature
20/09/23

বঙ্গবন্ধু
উপ-সহকারী প্রকৌশলী

১৩৬ এম বিলাপ-২, ঢাকা ওয়াসা

Signature
20/9/23

Signature
20/9/23

M/s Asha Traders

Signature
Proprietor



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1st Class (Combined) Govt. Contractor PWD, LGED, Electrical, Mechanical and Civil (WASA)

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Date:

3. NO LOAD LOSS AT PRINCIPAL TAP

APPLIED VOLTS	MULTIPLYING FACTOR	WATTMETER READING (WATTS)		MEASURED IN WATTS (W2-W1)x8	
		W1	W2		
415	8	80	135	(135-80)x8=440	

4. LOAD LOSS AT PRINCIPAL TAP

Room Temperature: 30 °C

VOLTS	CURRENT IN AMPS. CTR 25/5=5	WATTMETER READING (WATTS)		MEASURED (W1-W2)x8x5 IN WATTS	CORRECTED LOSS AT 75°C IN WATTS	
		W1	W2			
376	2.10x5	12	81	(81-12)x8x5=2760		

5. VACTOR GROUP TEST

SUPPLY VOLTAGE (THREE PHASE)	VOLTAGE BETWEEN	VALUE OF VOLTAGE (IN VOLTS)
400 VOLTS (C & c Shorted)	A-a	381
	A-b	381
	B-a	392
	B-b	380

6. INSULATION RESISTANCE TEST

- a) Magger : China
- b) Temperature : 30 °C
- c) Applied Volt : 1000V

CONNECTIONS	VALUE IN MΩ
HT to Earth	1000 Above OK.
LT to Earth	1000 Above OK.
HT to LT	1000 Above OK.

7. DIELECTRIC STRENGTH OF OIL(2.5mm Electrode Gap)

BREAKDOWN AT : 50 KV

8. POWER FREQUENCY WITHSTAND TEST

L.T. SIDE: 2.5 KV (60 Scc) Withstood.(Leakage current 0.50 mA) OK.

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9. INDUCED OVER VOLTAGE TEST

:830 Volts of L.V. side for 1 Min at 100 Hz With stood. OK.

10. Percentage of Impedance Voltage at 75 °C= 4%

Test Performed by:

Test Witnessed

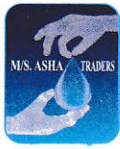
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উপ-সহকারী প্রকৌশলী

M/s Asha Traders
[Signature]
Proprietor



M/S. ASHA TRADERS

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Date:

FACTORY TEST CERTIFICATE

Customer	Dhaka WASA Field Maintenance Division-02 (F.M.D-02) Address: Darus Salam Road, Near Govt. Bangla College, Dhaka-1216.				
Manufacturer	Energy Pac.				
Repaired & Tested By	M/S. ASHA TRADERS Add: 261/E East Nakhal Para, Dhaka				
Year of Manufacturing: 2015	Serial No. 200/1419		Date of Test: 20.09.2023		
Rate Voltage at no Load	HT	11000V	Rated Current	HT 10.49 Amperes	
	LT	415/240V		LT 278.2 Amperes	
KVA Rating	200	No. of Phases	3	Tapping	1 +2.5%
Type of cooling	ONAN	Impedance Voltage	4%		2 0%
Vector Group	DYn 11				3 -2.5%
Standard	BS-171/IEC-76				4 -5%
Frequency	50Hz				5 -7.5%

1. WINDING RESISTANCE MEASUREMENT

HT Side (Phase to Phase) Resistance in Ohms				LT Side (Phase to Phase) Resistance in Ohms			
Phase	Measured at Room Temp 30 °C	Measured at 75 °C		Phase	Measured at Room Temp 30 °C	Measured at 75 °C	
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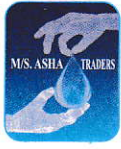
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Tap Position	Specified Value	Observed Values	Deviation	Allowable Deviation	Remark.
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Signature
20/9/23
রজন বড়ুয়া
উপ-সহকারী প্রকৌশল
এফ এম বিভাগ-২

Signature
20.9.23

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4. LOAD LOSS AT PRINCIPAL TAP

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[Signature]
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ACTORY TEST CERTIFICATE

Customer	Dhaka WASA Field Maintenance Division-02 (F.M.D-02) Address: Darus Salam Road, Near Govt. Bangla College, Dhaka-1216.				
Manufacturer	AHK Electric				
Repaired & Tested By	M/S. ASHA TRARERS Add: 261/E East Nakal Para, Dhaka				
Year of Manufacturing: 2013	Serial No. 200/30		Date of Test: 20.09.2023		
Rate Voltage at no Load	HT	11000V	Rated Current	HT 10.49 Amperes	
	LT	415/240V		LT 278.2 Amperes	
KVA Rating	200	No. of Phases	3	Tapping	1 +2.5%
Type of cooling	ONAN	Impedance Voltage	4%		2 0%
Vector Group	DYn 11				3 -2.5%
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M/S. ASHA TRADERS

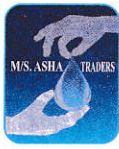
Proprietor

উপ-সহকারী প্রকৌশলী

এম.এম. বিজ্ঞান-২, ঢাকা ওয়াশা

Received 20/9/23

20/9/23



M/S. ASHA TRADERS

1st Class (Combined) Govt. Contractor PWD, LGED, Electrical, Mechanical and Civil (WASA)

Ref:

Date:

3. NO LOAD LOSS AT PRINCIPAL TAP

APPLIED VOLTS	MULTIPLYING FACTOR	WATTMETER READING (WATTS)		MEASURED IN WATTS (W2-W1)x8	
		W1	W2		
415	8	78	134	(134-78)x8=448	

4. LOAD LOSS AT PRINCIPAL TAP

Room Temperature: 30 °C

VOLTS	CURRENT IN AMPS. CTR 25/5=5	WATTMETER READING (WATTS)		MEASURED (W1-W2)x8x5 IN WATTS	CORRECTED LOSS AT 75°C IN WATTS	
		W1	W2			
376	2.10x5	11	80	(80-11)x8x5=2760		

5. VACTOR GROUP TEST

SUPPLY VOLTAGE (THREE PHASE)	VOLTAGE BETWEEN	VALUE OF VOLTAGE (IN VOLTS)
400 VOLTS (C & c Shorted)	A-a	381
	A-b	381
	B-a	392
	B-b	380

6. INSULATION RESISTANCE TEST

- a) Magger : China
- b) Temperature : 30 °C
- c) Applied Volt : 1000V

CONNECTIONS	VALUE IN MΩ
HT to Earth	1000 Above OK.
LT to Earth	1000 Above OK.
HT to LT	1000 Above OK.

7. DIELECTRIC STRENGTH OF OIL (2.5mm Electrode Gap)

BREAKDOWN AT : 50 KV

8. POWER FREQUENCY WITHSTAND TEST

- L.T. SIDE: 2.5 KV (60 Sec) Withstood.(Leakage current 0.50 mA) OK.
- H.T. SIDE: 28 KV (60 Sec) Withstood.(Leakage current 0.50 mA) OK.

9. INDUCED OVER VOLTAGE TEST

:830 Volts of L.V. side for 1 Min at 100 Hz With stood. OK.

10. Percentage of Impedance Voltage at 75 °C= 4%

Test Performed by:

Test Witnessed

20/9/23

Signature of Test Performed by

Signature of Test Witnessed

M/S. ASHA TRADERS
Proprietor



M/S. ASHA TRADERS

1st Class (Combined) Govt. Contractor PWD, LGED, Electrical, Mechanical and Civil (WASA)

Ref:

Date:

FACTORY TEST CERTIFICATE

Customer	Dhaka WASA Field Maintenance Division-02 (F.M.D-02) Address: Darus Salam Road, Near Govt. Bangla College, Dhaka-1216.				
Manufacturer	Green Power				
Repaired & Tested By	M/S. ASHA TRADERS Add: 261/E East Nakal Para, Dhaka				
Year of Manufacturing: 2012		Serial No. 4002		Date of Test: 20.09.2023	
Rate Voltage at no Load	HT	11000V	Rated Current	HT	10.49 Amperes
	LT	415/240V		LT	278.2 Amperes
KVA Rating	200	No. of Phases	3	Tapping	1 +2.5%
Type of cooling	ONAN	Impedance Voltage	4%		2 0%
Vector Group	DYn 11				3 -2.5%
Standard	BS-171/IEC-76				4 -5%
Frequency	50Hz				5 -7.5%

1. WINDING RESISTANCE MEASUREMENT

HT Side (Phase to Phase) Resistance in Ohms				LT Side (Phase to Phase) Resistance in Ohms			
Phase	Measured at Room Temp 30 °C	Measured at 75 °C		Phase	Measured at Room Temp 30 °C	Measured at 75 °C	
A-B	10.4	12.16			0.0039	0.0045	
B-C	10.3	12.04			0.0038	0.0044	
C-A	10.5	12.28			0.0040	0.0046	

2. TURN RATIO

Tap Position	Specified Value	Observed Values	Deviation	Allowable Deviation	Remark.
I	9.41 x 5	9.41 x 5	-14 -.06 -.10	±0.5%	Satisfactory
II	9.18 x 5	9.18 x 5	-.16 -.08 -.10		
III	8.95 x 5	8.95 x 5	-20 -.06 -.08		
IV	8.72 x 5	8.72 x 5	-.16 -.06 -.08		
V	8.49 x 5	8.49 x 5	-.04 -.08 -.08		


 উপ-প্রকৌশলী
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20.9.23
 20/9/23

M/S. ASHA TRADERS
 Proprietor



M/S. ASHA TRADERS

1st Class (Combined) Govt. Contractor PWD, LGED, Electrical, Mechanical and Civil (WASA)

Ref:

Date:

3. NO LOAD LOSS AT PRINCIPAL TAP

APPLIED VOLTS	MULTIPLYING FACTOR	WATTMETER READING (WATTS)		MEASURED IN WATTS (W2-W1)x8	
		W1	W2		
415	8	77	132	(132-77)x8=440	

4. LOAD LOSS AT PRINCIPAL TAP

Room Temperature: 30 °C

VOLTS	CURRENT IN AMPS. CTR 25/5=5	WATTMETER READING (WATTS)		MEASURED (W1-W2)x8x5 IN WATTS	CORRECTED LOSS AT 75°C IN WATTS	
		W1	W2			
376	2.10x5	13	82	(82-13)x8x5=2760		

5. VACTOR GROUP TEST

SUPPLY VOLTAGE (THREE PHASE)	VOLTAGE BETWEEN	VALUE OF VOLTAGE (IN VOLTS)
400 VOLTS (C & c Shorted)	A-a	381
	A-b	381
	B-a	392
	B-b	380

6. INSULATION RESISTANCE TEST

- a) Magger : China
- b) Temperature : 30 °C
- c) Applied Volt : 1000V

CONNECTIONS	VALUE IN MΩ
HT to Earth	1000 Above OK.
LT to Earth	1000 Above OK.
HT to LT	1000 Above OK.

7. DIELECTRIC STRENGTH OF OIL(2.5mm Electrode Gap)

BREAKDOWN AT : 50 KV

8. POWER FREQUENCY WITHSTAND TEST

- L.T. SIDE: 2.5 KV (60 Sec) Withstood.(Leakage current 0.50 mA) OK.
- H.T. SIDE: 28 KV (60 Sec) Withstood.(Leakage current 0.50 mA) OK.

9. INDUCED OVER VOLTAGE TEST

:830 Volts of L.V. side for 1 Min at 100 Hz With stood. OK.

10. Percentage of Impedance Voltage at 75 °C= 4%

Test Performed by:

Test Witnessed

Rajan
রজন বড়ুয়া

উপ-সহকারী প্রকৌশলী

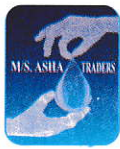
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Ranjit
20-9-23

M/S. ASHA TRADERS

Proprietor

20/9/23



M/S. ASHA TRADERS

1st Class (Combined) Govt. Contractor PWD, LGED, Electrical, Mechanical and Civil (WASA)

Ref:

Date:

FACTORY TEST CERTIFICATE

Customer	Dhaka WASA Field Maintenance Division-02 (F.M.D-02) Address: Darus Salam Road, Near Govt. Bangla College, Dhaka-1216.				
Manufacturer	Setco				
Repaired & Tested By	M/S. ASHA TRADERS Add: 261/E East Nakal Para, Dhaka				
Year of Manufacturing: 2014		Serial No. 200/66		Date of Test: 20.09.2029	
Rate Voltage at no Load	HT	11000V	Rated Current	HT	10.49 Amperes
	LT	415/240V		LT	278.2 Amperes
KVA Rating	200	No. of Phases	3	Tapping	1 +2.5%
Type of cooling	ONAN	Impedance Voltage	4%		2 0%
Vector Group	DYn 11				3 -2.5%
Standard	BS-171/IEC-76				4 -5%
Frequency	50Hz				5 -7.5%

1. WINDING RESISTANCE MEASUREMENT

HT Side (Phase to Phase) Resistance in Ohms				LT Side (Phase to Phase) Resistance in Ohms			
Phase	Measured at Room Temp 30 °C	Measured at 75 °C		Phase	Measured at Room Temp 30 °C	Measured at 75 °C	
A-B	10.4	12.16			0.0039	0.0045	
B-C	10.3	12.04			0.0038	0.0044	
C-A	10.5	12.28			0.0040	0.0046	

2. TURN RATIO

Tap Position	Specified Value	Observed Values	Deviation	Allowable Deviation	Remark.
I	9.41 x 5	9.41 x 5	-14 -.06 -.10	±0.5%	Satisfactory
II	9.18 x 5	9.18 x 5	-.16 -.08 -.10		
III	8.95 x 5	8.95 x 5	-20 -.06 -.08		
IV	8.72 x 5	8.72 x 5	-.16 -.06 -.08		
V	8.49 x 5	8.49 x 5	-.04 -.08 -.08		

Signature
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উপ-সহকারী প্রকৌশলী

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Signature
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M/s Asha Traders

Proprietor



M/S. ASHA TRADERS

1st Class (Combined) Govt. Contractor PWD, LGED, Electrical, Mechanical and Civil (WASA)

Ref:

Date:

3. NO LOAD LOSS AT PRINCIPAL TAP

APPLIED VOLTS	MULTIPLYING FACTOR	WATTMETER READING (WATTS)		MEASURED IN WATTS (W2-W1)x8	
		W1	W2		
415	8	77	132	(132-77)x8=440	

4. LOAD LOSS AT PRINCIPAL TAP

Room Temperature: 30 °C

VOLTS	CURRENT IN AMPS. CTR 25/5=5	WATTMETER READING (WATTS)		MEASURED (W1-W2)x8x5 IN WATTS	CORRECTED LOSS AT 75°C IN WATTS	
		W1	W2			
376	2.10x5	13	80	(80-13)x8x5=2680		

5. VACTOR GROUP TEST

SUPPLY VOLTAGE (THREE PHASE)	VOLTAGE BETWEEN	VALUE OF VOLTAGE (IN VOLTS)
400 VOLTS (C & c Shorted)	A-a	381
	A-b	381
	B-a	392
	B-b	380

6. INSULATION RESISTANCE TEST

- a) Magger : China
- b) Temperature : 30 °C
- c) Applied Volt : 1000V

CONNECTIONS	VALUE IN MΩ
HT to Earth	1000 Above OK.
LT to Earth	1000 Above OK.
HT to LT	1000 Above OK.

7. DIELECTRIC STRENGTH OF OIL(2.5mm Electrode Gap)

BREAKDOWN AT : 50 KV

8. POWER FREQUENCY WITHSTAND TEST

- L.T. SIDE: 2.5 KV (60 Sec) Withstood.(Leakage current 0.50 mA) OK.
- H.T. SIDE: 28 KV (60 Sec) Withstood.(Leakage current 0.50 mA) OK.

9. INDUCED OVER VOLTAGE TEST

:830 Volts of L.V. side for 1 Min at 100 Hz With stood. OK.

10. Percentage of Impedance Voltage at 75 °C= 4%

Test Performed by:

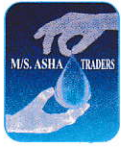
Test Witnessed

Riaz Ahmed
রিয়াজ আহমেদ
উপ-সহকারী প্রকৌশলী

এম এম বিভাগ-২, ঢাকা ওয়াসা

Riaz Ahmed
Riaz Ahmed
Assistant Engineer
FMD-2, Dhaka-WASA

20/9/23
সুজন চন্দ্র বর্মণ
নির্বাহী প্রকৌশলী
এফ এম বিভাগ-২, ঢাকা ওয়াসা
M/s Asha Traders
Proprietor



M/S. ASHA TRADERS

1st Class (Combined) Govt. Contractor PWD, LGED, Electrical, Mechanical and Civil (WASA)

Ref:

Date:

FACTORY TEST CERTIFICATE

Customer	Dhaka WASA Field Maintenance Division-02 (F.M.D-02) Address: Darus Salam Road, Near Govt. Bangla College, Dhaka-1216.				
Manufacturer	AHK Electric Company				
Repaired & Tested By	M/S. ASHA TRADERS Add: 261/E East Nakal Para, Dhaka				
Year of Manufacturing: 2013	Serial No. 200/60		Date of Test: 20.09.2023		
Rate Voltage at no Load	HT 11000V	Rated		HT 10.49 Amperes	
	LT 415/240V	Current		LT 278.2 Amperes	
KVA Rating	200	No. of Phases	3	Tapping	1 +2.5%
Type of cooling	ONAN	Impedance Voltage	4%		2 0%
Vector Group	DYn 11				3 -2.5%
Standard	BS-171/IEC-76				4 -5%
Frequency	50Hz				5 -7.5%

1. WINDING RESISTANCE MEASUREMENT

HT Side (Phase to Phase) Resistance in Ohms				LT Side (Phase to Phase) Resistance in Ohms			
Phase	Measured at Room Temp 30 °C	Measured at 75 °C		Phase	Measured at Room Temp 30 °C	Measured at 75 °C	
A-B	10.4	12.16			0.0039	0.0045	
B-C	10.3	12.04			0.0038	0.0044	
C-A	10.5	12.28			0.0040	0.0046	

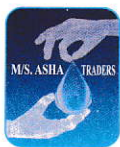
2. TURN RATIO

Tap Position	Specified Value	Observed Values	Deviation	Allowable Deviation	Remark.
I	9.41 x 5	9.41 x 5	-14 -.06 -.10	±0.5%	Satisfactory
II	9.18 x 5	9.18 x 5	-.16 -.08 -.10		
III	8.95 x 5	8.95 x 5	-20 -.06 -.08		
IV	8.72 x 5	8.72 x 5	-.16 -.06 -.08		
V	8.49 x 5	8.49 x 5	-.04 -.08 -.08		

Signature
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বড়ুয়া
উপ সহকারী প্রকৌশলী
১ম এম বিভাগ-২, ঢাকা ওয়াসা

Signature
২০/৯/২৩
Riad Ahmed
Assistant Engineer
FMD-2, Dhaka-WASA

Signature
২০/৯/২৩
সুজন চন্দ্র বর্মন
নির্বাহী প্রকৌশলী
এক এম বিভাগ-২, ঢাকা ওয়াসা
M/s Asha Traders
Proprietor



M/S. ASHA TRADERS

1st Class (Combined) Govt. Contractor PWD, LGED, Electrical, Mechanical and Civil (WASA)

Ref:

Date:

3. NO LOAD LOSS AT PRINCIPAL TAP

APPLIED VOLTS	MULTIPLYING FACTOR	WATTMETER READING (WATTS)		MEASURED IN WATTS (W2-W1)x8	
		W1	W2		
415	8	77	131	(131-77)x8=432	

4. LOAD LOSS AT PRINCIPAL TAP

Room Temperature: 30 °C

VOLTS	CURRENT IN AMPS. CTR 25/5=5	WATTMETR READING (WATTS)		MEASURED (W1-W2)x8x5 IN WATTS	CORRECTED LOSS AT 75°C IN WATTS	
		W1	W2			
376	2.10x5	13	80	(80-13)x8x5=2680		

5. VACTOR GROUP TEST

SUPPLY VOLTAGE (THREE PHASE)	VOLTAGE BETWEEN	VALUE OF VOLTAGE (IN VOLTS)
400 VOLTS (C & c Shorted)	A-a	381
	A-b	381
	B-a	392
	B-b	380

6. INSUATION RESISTANCE TEST

- a) Magger : China
- b) Temperature : 30 °C
- c) Applied Volt : 1000V

CONNECTIONS	VALUE IN MΩ
HT to Earth	1000 Above OK.
LT to Earth	1000 Above OK.
HT to LT	1000 Above OK.

7. DIELECTIC STRENGTH OF OIL(2.5mm Electrode Gap)

BREAKDOWN AT : 50 KV

8. POWER FREQUENCY WITHSTAND TEST

- L.T. SIDE: 2.5 KV (60 Scc) Withstood.(Leakage current 0.50 mA) OK.
- H.T. SIDE: 28 KV (60 Scc) Withstood.(Leakage current 0.50 mA) OK.

9. INDUCED OVER VOLTAGE TEST

:830 Volts of L.V. side for 1 Min at 100 Hz With stood. OK.

10. Percentage of Impedance Voltage at 75 °C= 4%

Test Performed by:

Test Witnessed

Signature
20/02/2023

বড়ুয়া
রা প্রকৌশলী

বিভাগ-২, ঢাকা ওয়াসা

Signature
20/02/23
Riad Ahmed
Assistant Engineer
FMD-2, Dhaka-WASA.

M/s Asha Traders

Proprietor

Signature
20/02/23
সুজন চন্দ্র বর্মণ
নির্বাহী প্রকৌশলী
এফ এম বিভাগ-২, ঢাকা ওয়াসা