General Information	
Report Issuing to-	**Chorka Textile Limited**
Project Address	Olipur, Shayestagonj, Habiganj
Date of Inspection	14th March, 2026
Date of Report Issue	15th April, 2026
Date of Expiration	14th April, 2027
Inspection Time	9:00 AM - 4:30 PM
Report Identification	**Stack/Point Source Air Emission Assessment & Inventory Report**
Report & Reference No.	EISL/ENV. /EPT/26/00051-7

Prepared By	Reviewed By
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Approved By

Md. Mahbubur Rahaman
Chairman
EUROSIA ITC SERVICES LTD.

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Acknowledgment

Eurosia ITC Services Ltd. (EISL) is honored to have this opportunity for conducting an Environmental Parameter Test (EPT) for **Chorka Textile Limited Eurosia ITC Services Ltd. (EISL)** expresses its gratitude to the Managing Director for the responsibility for conducting the Environmental Parameter Test (EPT) of **Chorka Textile Limited** Members of the **EISL** technical team were impressed with the spontaneous response received from the local people in providing information. Their contribution is gratefully recognized by **Eurosia ITC Services Ltd. (EISL)** special mention must be made to the people who had given time to respond to the different types of surveys, Rapid Rural Appraisal, Consultation Meetings, and group discussions.

Thank you,

Md. Mahbubur Rahaman
Chairman
Eurosia ITC Services Ltd. (EISL)

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Content

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1 Environmental Inspection Summary

Equipment Used	Measuring Range	Accuracy
1. Flue Gas Analyzer Brand:Testo, Model: 340	**Flue gas O_2:** 0 to 25 Vol.%	±0.2 Vol.%
	Flue gas CO (with H_2-compensation): 0 to 10000 ppm	±10 ppm or ±10 % of mv (0 to 200 ppm) ±20 ppm or ±5 % of mv (201 to 2000 ppm) ±10 % of mv (2001 to 10000 ppm)
	Flue gas CO_2 calculation (calculated from O_2): 0 to CO_2 max	±0.2 Vol.%
	Flue gas NO: 0 to 4000 ppm	±5 ppm (0 to 33 ppm) ±5 % of mv (100 to 1333 ppm) ±10 % of mv (2000 to 4000 ppm)
	Flue gas NO_2: 0 to 500 ppm	±10 ppm (0 to 133 ppm) ±5 % of mv (Remaining Range)
	Flue gas SO_2: 0 to 5000 ppm	±10 ppm (0 to 33 ppm) ±10 % of mv (Remaining Range)
2. Stack Assessment Kit Brand: Lata Envirotech, Model: APM 160	**Particulate Sampling:** SPM collection in thimble type filter (with pore size of 1.6µm with collection efficiency for 0.3µn particles 33.7%) **Gaseous Sampling:** Collections of gases @ 0.3-3 lpm in chemicals kept in a set of 70 ml capacity borosilicate glass impingers.	2% FSD

2 Introduction

Air pollution is a kind of pollution that can also be a trans-boundary problem requiring agreement by governments world-wide. The Inter-Governmental Panel on Climate Change (IPCC) has predicted a possible rise in the average global temperature of 1 degree Celsius by 2025 and 3 degrees Celsius before the end of the 21st century. In the last few hundred years the rising human population and industrialization have increased the levels of gases like carbon dioxide, methane, nitrous oxide etc. in the atmosphere which is responsible for global warming. Despite the uncertainties and disputes, governments worldwide have agreed that precautions need to be taken now.

In a way, air emissions can happen by the gases and/or particulates that are released from the combination, decomposition, or combustion of materials. Stacks are the outlet of emissions from utility, machines, and other avenues for gases to escape when they are created. These emissions can be harmful to people and the environment and represent an environmental risk. Stacks from industrial processes will carry pollutants such as **SOx, NOx, particles, solvents, other dust** and **gases**. These can have a detrimental effect on local air quality and for this reason, such emissions are often regulated. Typically, this regulation requires measurement of the concentration of these pollutants on a regular basis, often referred to as periodic stack

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emission assessment. The purpose of the assessment will be to determine whether the emissions are below the limits.

As a process of complying with the requirement **Chorka Textile Limited** has hired Eurosia ITC Services Ltd to assess its environmental performance, in terms of air pollution. This report focuses on the Inspection of basic Air emission parameters according to the IFC/World Bank and the Department of Environment (DoE) ofBangladesh.

2.1 Method of Sampling

Analysis of the exhaust flue was done using direct reading instruments. So, there was no separate sampling used for this analysis. During the analysis, a standard work instruction stated in the (EISL/Env/SOP-006) was followed.

3 Reference Value

	CO_2	CO	SO_2 mg/Nm³	SO_X	NO	NO_X mg/Nm³	O_2	PM mg/Nm³
Air Emission Control Rules 2022 (DoE, BD)	For Generator							
	Coal Based							
	NYS	NYS	200	NYS	NYS	200	-	80
	Natural Gas Based							
	NYS	NYS	NF	NYS	NYS	200	-	NF
	Others Gas Based							
	NYS	NYS	400	NYS	NYS	200	-	mg/Nm³
	Oil Based							
	NYS	NYS	200	NYS	NYS	200	-	50

World Bank 2006 –IFC Standard (mg/Nm³ or as indicated)	CO_2	CO	SO_2	SO_X	NO	NO_X	O_2	PM
	NYS	NYS	NA (Gas), 1.5-3.0% (Oil)	NYS	NYS	200 (Gas), 1460 (Oil)	15 (Gas), 15 (Oil)	N/A (Gas), 50 (Oil)

Reference of Relevant Standard		Standard for Stack Emission Industries or Projects (Boiler)			
Unit		SPM (mg/Nm³)	NOx (mg/Nm³)	SOx (mg/Nm³)	O_2 (%)
Air Pollution Control Rules 2022	Coal	250	400	250	NYS
	Gas	NYS	150	250	NYS
	Oil	200	300	250	NYS
	Husk	250	400	250	NYS
Parameters		PM (mg/Nm³)	NOx (mg/Nm³)	SOx (mg/Nm³)	O_2(%)
IFC/ World Bank	Gas	NYS	320	NYS	3
	Liquid	50 or up to 150	460	2000	3
	Solid	50 or up to 150	650	2000	6

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STeP-OEKO TEX STANDARD PERMISSIBLE LIMIT			
For Gas/Diesel Generator >0.3 MW			
Parameter	Minimum	Advanced	Excellent
CO (Carbon monoxide): mg/Nm³			
Gaseous Fuel	500	250	150
Diesel Fuel	500	250	150
NOX (Nitrogen Oxides): mg/Nm³			
Gaseous Fuel	500	300	100
Diesel Fuel	1000	500	200
SO_2 (Sulfur Dioxide): mg/Nm³			
Gaseous Fuel	200	100	30
Diesel Fuel	300	400	60

Source	Parameter	Fuel Type	Foundational	Progressive	Aspirational	Concentration Units
Facility Combustion	NOx	Solid	650	300	200	mg/Nm³
		Liquid	460	250	85	
		Gas	400	150	40	
	CO	Solid	800	500	100	
		Liquid	650	400	100	
		Gas	500	300	100	
	SOx	Solid	750	650	300	
		Liquid	600	450	300	
		Gas	*400*	*300*	*100*	
	PM	*Solid*	*500*	*300*	*100*	
		Liquid	*300*	*100*	*50*	
		Gas	*100*	*50*	*20*	
ZDHC Air Emission Position Paper (Appendix-A) (Version 1.0, January 2021)						

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3.1 Description of Generator, Boiler, Stenter, Dryer & Singeing Stack Air Emission Assessment

Key of Information	Generator - 01	Generator - 02	Generator - 03	Generator -04
Brand	MWM (CATERPILLAR)	MWM (CATERPILLAR)	MWM (CATERPILLAR)	CATERPILLAR
Model No.	CG260-V16	CG260-V16	CG260-V16	-
Capacity	4300 KW	4300 KW	4300 KW	1000KW
Source/Fuel	Gas	Gas	Gas	Diesel
Stack Pipe Dia Size	0.60 m	0.60 m	0.60 m	0.60m
Yearly Running Hour	5232 Hour/Year	5345 Hour/Year	5413 Hour/Year	5040 Hour/Year

Key of Information	Boiler - 01	EGB Boiler - 01	EGB Boiler - 02	EGB Boiler -03
Brand	DELRIN	Tharmax	Tharmax	Tharmax
Model No.	DL_Z1200	ENSG 6A/10.54/12	ENSG 6A/10.54/12	ENSG 6A/10.54/12
Capacity	1211 KG/Hr	3.23 Ton/Hr	3.23 Ton/Hr	3.23 Ton/Hr
Source/Fuel	Natural Gas	Generator Exhaust	Generator Exhaust	Generator Exhaust
Stack Pipe Dia Size	0.65m	0.65m	0.65m	0.65m
Yearly Running Hour	3654 Hour/Year	4898 Hour/ Year	4998 Hour/ Year	4988 Hour/ Year

Key of Information	Stenter- 01	Stenter- 02	Stenter- 03	Stenter- 04	Stenter- 05
Brand	POWER BRUCKNER	POWER BRUCKNER	EHWHA GLOTECH	EHWHA GLOTECH	EHWHA GLOTECH
Model No.	-	-	Textinno	Textinno	Textinno
Capacity	10000	10000	-	-	-
Source/Fuel	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas
Stack Pipe Dia Size	0.62m	0.62m	0.62m	0.62m	0.62m
Yearly Running Hour	4265 Hour/Year	4267 Hour/Year	4578 Hour/Year	4634 Hour/Year	4672 Hour/Year

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Key of Information	Dryer - 01	Dryer - 02
Brand	CANLAR	FONGS
Model No.	-	KTP600
Capacity	10500	6000
Source/Fuel	Natural Gas	Natural Gas
Stack Pipe Dia Size	0.67m	0.67m
Yearly Running Hour	5988 Hour/Year	4329 Hour/ Year

Key of Information	Singeing - 01
Brand	OSTHOFF
Model No.	P500
Capacity	20000
Source/Fuel	Natural Gas
Stack Pipe Dia Size	0.63m
Yearly Running Hour	4620 Hour/ Year

3.2 Result of Stack Air Emission from Exhaust

Parameter	Unit	Generator - 01	Generator - 02	Generator - 03	Generator - 04	Boiler-01
O_2	V/v	5.8%	5.5%	6.5%	5.4%	4.7%
CO_2		6.3%	6.1%	8.2%	6.1%	5.4%
CO	(mg/Nm³)	134	135	160	132	94
SO_2		0	0	0	0	0
NO		27	25	19	28	15
NO_2		29	26	20	30	13
SPM		17	16	15	14	12
PM_{10}		13	14	12	10	9
$PM_{2.5}$		10	11	7	8	6

Source: *Field Survey on 14th March, 2026*

Note: Exhaust Gas Boiler (EGB) is a waste heat recovery unit connected to the Generator exhaust line. It does not involve any fuel combustion and has no separate stack. Therefore, stack emission results of the Generator set are considered applicable for the EGB system.

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Parameter	Unit	Stenter- 01	Stenter- 02	Stenter- 03	Stenter- 04	Stenter- 05
O_2	V/v	5.5%	6.2%	5.6%	6.4%	5.6%
CO_2		7.2%	8.9%	7.4%	8.2%	7.4%
CO	(mg/Nm³)	82	74	84	76	83
SO_2		0	0	0	0	0
NO		16	21	17	24	18
NO_2		17	22	15	21	16
SPM		11	15	11	16	14
PM_{10}		7	13	9	13	12
$PM_{2.5}$		4	6	5	8	7

Parameter	Unit	Dryer- 01	Dryer- 02	Singeing- 03
O_2	V/v	5.6%	6.2%	7.3%
CO_2		7.4%	8.5%	9.4%
CO	(mg/Nm³)	86	72	90
SO_2		0	0	0
NO		15	19	25
NO_2		14	16	26
SPM		13	14	9
PM_{10}		5	12	6
$PM_{2.5}$		4	8	3

Source: *Field Survey on 14th March, 2026*

3.3 Standard Interpretation as per Higg Index

Small (Less Than 50 MW)	Parameters	Standard as per Higg Index Module			Measured Pollutants Concentration comparison
		Level 1 Foundational	Level 2 Strategic	Level 3 Aspirational	
	PM	150	100	50	The Result Belongs in Level 3
	NOx	650	300	200	The Result Belongs in Level 3
	SO_2	2000	1000	400	The Result Belongs in Level 3

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4 Yearly Air Emission Inventory of Stack Air Assessment

Parameter		Generator - 1	Generator - 2	Generator - 3	Generator - 4	Boiler- 01
Flue Temperature (°C)		110	114	115	117	94
Air Flow (m/s)		0.70686	0.70686	0.70686	0.70686	0.4977
Control Device Installed	Yes	☐	☐	☐	☐	☐
	No	☑	☑	☑	☑	☑

Parameter		Stenter- 01	Stenter- 02	Stenter- 03	Stenter- 04	Stenter- 05
Flue Temperature (°C)		90	88	85	87	89
Air Flow (m/s)		0.45286	0.45286	0.45286	0.45286	0.45286
Control Device Installed	Yes	☐	☐	☐	☐	☐
	No	☑	☑	☑	☑	☑

Parameter		Dryer- 01	Dryer- 02	Singeing- 03
Flue Temperature (°C)		110	94	85
Air Flow (m/s)		0.52885	0.52885	0.46759
Control Device Installed	Yes	☐	☐	☐
	No	☑	☑	☑

Annual Point Source Air Emission Inventory for Generator-01			
Parameters	Unit	Pollutant Concentration	Total Air Pollutant (Kg/Year)
O_2	V/v	5.80%	**0.7722**
CO_2		6.30%	**0.83877**
CO	(mg/Nm³)	134	**1784.06**
SO_2		0	**0**
NOx		56	**745.576**
SPM		17	**226.335**
PM_{10}		13	**173.08**
$PM_{2.5}$		10	**133.138**

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Annual Point Source Air Emission Inventory for Generator-02			
Parameters	**Unit**	**Pollutant Concentration**	**Total Air Pollutant (Kg/Year)**
O_2	**V/v**	5.50%	**0.68552**
CO_2		6.10%	**0.7603**
CO	**(mg/Nm³)**	135	**1682.63**
SO_2		0	**0**
NOx		51	**635.66**
SPM		16	**199.423**
PM_{10}		14	**174.495**
$PM_{2.5}$		11	**137.103**

Annual Point Source Air Emission Inventory for Generator-03			
Parameters	**Unit**	**Pollutant Concentration**	**Total Air Pollutant (Kg/Year)**
O_2	**V/v**	6.50%	**0.89534**
CO_2		8.20%	**1.1295**
CO	**(mg/Nm³)**	160	**2203.91**
SO_2		0	**0**
NOx		39	**537.203**
SPM		15	**206.617**
PM_{10}		12	**165.293**
$PM_{2.5}$		7	**96.4211**

Annual Point Source Air Emission Inventory for Generator-04			
Parameters	**Unit**	**Pollutant Concentration**	**Total Air Pollutant (Kg/Year)**
O_2	**V/v**	5.40%	**0.69256**
CO_2		6.10%	**0.78234**
CO	**(mg/Nm³)**	132	**1692.94**
SO_2		0	**0**
NOx		58	**743.866**
SPM		14	**179.554**
PM_{10}		10	**128.253**
$PM_{2.5}$		8	**102.602**

Annual Point Source Air Emission Inventory for Boiler-01			
Parameters	**Unit**	**Pollutant Concentration**	**Total Air Pollutant (Kg/Year)**
O_2	**V/v**	4.70%	**0.30774**
CO_2		5.40%	**0.35357**
CO	**(mg/Nm³)**	94	**615.471**
SO_2		0	**0**
NOx		28	**183.332**
SPM		12	**78.5708**
PM_{10}		9	**58.9281**
$PM_{2.5}$		6	**39.2854**

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Annual Point Source Air Emission Inventory for Stenter -01			
Parameters	**Unit**	**Pollutant Concentration**	**Total Air Pollutant (Kg/Year)**
O_2	**V/v**	5.50%	**0.38243**
CO_2		7.20%	**0.50063**
CO	**(mg/Nm³)**	82	**570.165**
SO_2		0	**0**
NOx		33	**229.457**
SPM		11	**76.4856**
PM_{10}		7	**48.6727**
$PM_{2.5}$		4	**27.813**

Annual Point Source Air Emission Inventory for Stenter -02			
Parameters	**Unit**	**Pollutant Concentration**	**Total Air Pollutant (Kg/Year)**
O_2	**V/v**	6.20%	**0.4313**
CO_2		8.90%	**0.61913**
CO	**(mg/Nm³)**	74	**514.781**
SO_2		0	**0**
NOx		43	**299.129**
SPM		15	**104.347**
PM_{10}		13	**90.4345**
$PM_{2.5}$		6	**41.739**

Annual Point Source Air Emission Inventory for Stenter -03			
Parameters	**Unit**	**Pollutant Concentration**	**Total Air Pollutant (Kg/Year)**
O_2	**V/v**	5.60%	**0.41796**
CO_2		7.40%	**0.5523**
CO	**(mg/Nm³)**	84	**626.936**
SO_2		0	**0**
NOx		32	**238.833**
SPM		11	**82.0987**
PM_{10}		9	**67.1717**
$PM_{2.5}$		5	**37.3176**

Annual Point Source Air Emission Inventory for Stenter -04			
Parameters	**Unit**	**Pollutant Concentration**	**Total Air Pollutant (Kg/Year)**
O_2	**V/v**	6.40%	**0.48351**
CO_2		8.20%	**0.6195**
CO	**(mg/Nm³)**	76	**574.166**
SO_2		0	**0**
NOx		45	**339.967**
SPM		16	**120.877**
PM_{10}		13	**98.2126**
$PM_{2.5}$		8	**60.4386**

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Annual Point Source Air Emission Inventory for Stenter -05			
Parameters	**Unit**	**Pollutant Concentration**	**Total Air Pollutant (Kg/Year)**
O_2	**V/v**	5.60%	**0.42654**
CO_2		7.40%	**0.56364**
CO	**(mg/Nm³)**	83	**632.192**
SO_2		0	**0**
NOx		34	**258.97**
SPM		14	**106.635**
PM_{10}		12	**91.4012**
$PM_{2.5}$		7	**53.3174**

Annual Point Source Air Emission Inventory for Dryer - 01			
Parameters	**Unit**	**Pollutant Concentration**	**Total Air Pollutant (Kg/Year)**
O_2	**V/v**	5.60%	**0.63842**
CO_2		7.40%	**0.84362**
CO	**(mg/Nm³)**	86	**980.425**
SO_2		0	**0**
NOx		29	**330.609**
SPM		13	**148.204**
PM_{10}		5	**57.0015**
$PM_{2.5}$		4	**45.6012**

Annual Point Source Air Emission Inventory for Dryer - 02			
Parameters	**Unit**	**Pollutant Concentration**	**Total Air Pollutant (Kg/Year)**
O_2	**V/v**	6.20%	**0.51099**
CO_2		8.50%	**0.70055**
CO	**(mg/Nm³)**	72	**593.409**
SO_2		0	**0**
NOx		35	**288.463**
SPM		14	**115.385**
PM_{10}		12	**98.9015**
$PM_{2.5}$		8	**65.9344**

Annual Point Source Air Emission Inventory for Singeing - 01			
Parameters	**Unit**	**Pollutant Concentration**	**Total Air Pollutant (Kg/Year)**
O_2	**V/v**	7.30%	**0.56772**
CO_2		9.40%	**0.73103**
CO	**(mg/Nm³)**	90	**699.923**
SO_2		0	**0**
NOx		56	**435.508**
SPM		9	**69.9923**
PM_{10}		6	**46.6615**
$PM_{2.5}$		3	**23.3308**

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Annual Point Source Air Emission Inventory Summary						
Parameters	**Generator-1**	**Generator-2**	**Generator-3**	**Generator-4**	**Boiler-1**	**Total Emission (Kg)**
O_2	0.7722	0.68552	0.89534	0.69256	0.30774	**3.35336**
CO_2	0.83877	0.7603	1.1295	0.78234	0.35357	**3.86448**
CO	1784.06	1682.63	2203.91	1692.94	615.471	**7979.011**
SO_2	0	0	0	0	0	**0**
NOx	745.576	635.66	537.203	743.866	183.332	**2845.637**
SPM	226.335	199.423	206.617	179.554	78.5708	**890.4998**
PM_{10}	173.08	174.495	165.293	128.253	58.9281	**700.0491**
$PM_{2.5}$	133.138	137.103	96.4211	102.602	39.2854	**508.5495**

Annual Point Source Air Emission Inventory Summary						
Parameters	**Stenter- 01**	**Stenter- 02**	**Stenter- 03**	**Stenter- 04**	**Stenter-05**	**Total Emission (Kg)**
O_2	0.38243	0.4313	0.41796	0.48351	0.42654	**2.14174**
CO_2	0.50063	0.61913	0.5523	0.6195	0.56364	**2.8552**
CO	570.165	514.781	626.936	574.166	632.192	**2918.24**
SO_2	0	0	0	0	0	**0**
NOx	229.457	299.129	238.833	339.967	258.97	**1366.356**
SPM	76.4856	104.347	82.0987	120.877	106.635	**490.4433**
PM_{10}	48.6727	90.4345	67.1717	98.2126	91.4012	**395.8927**
$PM_{2.5}$	27.813	41.739	37.3176	60.4386	53.3174	**220.6256**

Annual Point Source Air Emission Inventory Summary				
Parameters	**Dryer- 01**	**Dryer- 02**	**Singeing- 03**	**Total Emission (Kg)**
O_2	0.63842	0.51099	0.56772	**1.71713**
CO_2	0.84362	0.70055	0.73103	**2.2752**
CO	980.425	593.409	699.923	**2273.757**
SO_2	0	0	0	**0**
NOx	330.609	288.463	435.508	**1054.58**
SPM	148.204	115.385	69.9923	**333.5813**
PM_{10}	57.0015	98.9015	46.6615	**202.5645**
$PM_{2.5}$	45.6012	65.9344	23.3308	**134.8664**

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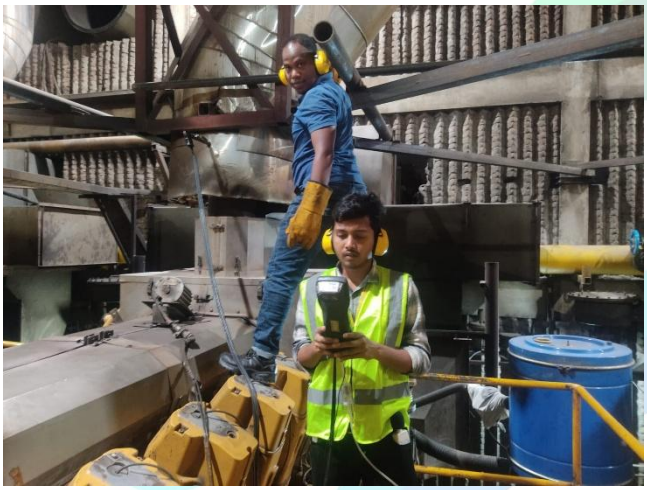
5 Pictorial View of Stack/Point Source Emission





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6 BAB Certificate

GLOBAL ACCEPTANCE
BAB
BANGLADESH ACCREDITATION BOARD

ACCREDITATION CERTIFICATE

Issued under the authority of Bangladesh Accreditation Act, 2006
by Bangladesh Accreditation Board (BAB), Ministry of Industries to

Eurosia ITC Services Ltd.
Haveily Center (4th Floor), KA -11/2/A, Jagannathpur
Bashundhara Road, Vatara, Dhaka – 1229, Bangladesh

This is to certify that this

Inspection Body (Type-A)
is accredited in accordance with the international standard

ISO/IEC 17020:2012
in respect of the associated scope, subject to the terms and conditions governing the relevant conformity assessment body (CAB) accreditation.

CERT.NO.05.011.21
BAB
BANGLADESH ACCREDITATION BOARD
Accredited for ISO/IEC 17020:2012

Certificate Number	:	05.011.21
Accreditation Date	:	16 June 2021
Date of Issuance	:	18 Aug 2024 (1st Renewal)
Date of Expiration	:	15 June 2027

GLOBAL BAB ACCREDITED ACCEPTANCE

18.08.2024
Md. Anwarul Alam
Director General

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7 Comments and Recommendation

Chorka Textile Limited has hired Eurosia ITC Services Ltd. to inspect their stack air emission. Eurosia has inspected all the required air quality parameters according to the ECR, STeP-OEKO TEX and the IFC/World Bank emission standard. According to the inspection result the findings are given below:

- Nitrogen Oxide emission from the generators and boilers are in compliance with the DoE emission limit and the IFC/World Bank standard. However, the proponent needs to consider that the concentration of parameters presented in this report is instantaneous data which had found during inspection and may vary over the period of time.

Obtaining above results, for further improvement recommendations are given below:

- ✓ Periodic maintenance of utilities according to manufacturer's instruction
- ✓ Installation of on-site abatement measures to control the emission level.
- ✓ Control air-fuel mixing ratio and excess air to reduce nitrogen oxide emission.
- ✓ Project has to check Air emission quality periodically.

The project is suggested to assess the Stack Air Emission Quality once annually at least if all other setups are constant.

5. Conclusion

Stack Air Emission Assessment has been carried out to evaluate the surrounding environmental condition of **Chorka Textile Limited** with the highest accuracy and sincerity. A company's production is greatly affected by its management, workers' efficiency, its environment, etc. To ensure a working environment, conducting Stack Air Emission Assessment at regular intervals is essential and **Eurosia ITC Services Ltd.** is appointed by **Chorka Textile Limited** managerial body to perform Stack/Point Source Emission Test Report from Generator Exhaust. The overall condition of this test carried out is satisfactory and justifies the working environment is good.

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