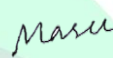


General Information	
Report Issuing to-	Chorka Textile Limited
Project Address	Olipur, Shayestagonj, Habiganj
Date of Inspection	14 th March, 2026
Date of Report Issue	15 th April, 2026
Date of Expiration	14 th April, 2027
Inspection Time	9:00 AM - 4:30 PM
Report Identification	Indoor Air Quality Assessment Report
Report & Reference No.	EISL/ENV. /EPT/26/00051-1
Prepared By	Reviewed By
 Md. Fahim Shariar Rizvee Diploma in Environmental Technology Environmental Inspector EUROSIA ITC SERVICES LTD.	 Md. Masud - Un - Noby B.Sc. & MS in Environmental Science Technical Manager EUROSIA ITC SERVICES LTD.
Approved By	
 Md. Mahbubur Rahaman Managing Director EUROSIA ITC SERVICES LTD.	



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Acknowledgment

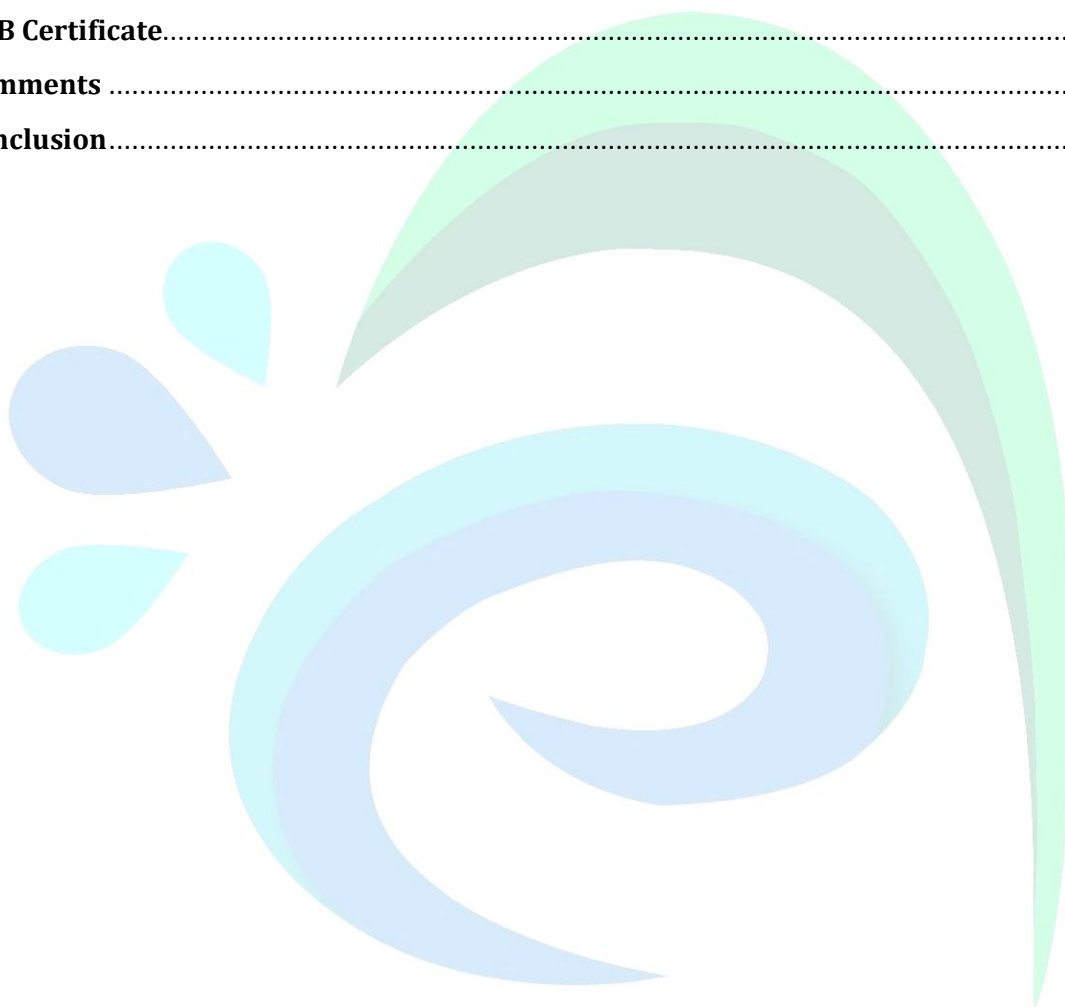
Eurosia ITC Services Ltd. (EISL) is honored to have this opportunity for conducting the Environmental Parameter Test (EPT) of **Chorka Textile Limited Eurosia ITC Services Ltd. (EISL)** expresses its gratitude to the Managing Director for the responsibility of conducting the Environmental Parameter Test (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
Managing Director
Eurosia ITC Services Ltd. (EISL)

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1 Environmental Inspection Summary

Inspection Item	Equipment	Measuring Range	Accuracy	Comment
Air Quality	Combined Sampler, Model: APM 250;	Particulate Sampling: SPM collection in filter paper (collection efficiency for 0.3 μ m 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	See the result
	Formaldehyde Detector, Model: WP6330S.	CO₂: 0.000~3.333 mg/m ³ HCHO: 0.000~1.333 mg/m ³ TVOC: 0.000~3.333 mg/m ³ PM₁₀, PM_{2.5}, PM_{1.0}: 0.000~1.333 mg/m ³	± 2%	

2 Introduction

Indoor air quality (IAQ) is a term which refers to the air quality within and around buildings and structures, especially as it relates to the health and comfort of building occupants. IAQ can be affected by gases (including carbon monoxide, radon, volatile organic compounds), particulates, microbial contaminants (mold, bacteria), or any mass or energy stressor that can induce adverse health conditions. Source control, filtration, and the use of ventilation to dilute contaminants are the primary methods for improving indoor air quality in most buildings. Residential units can further improve indoor air quality by routine cleaning of carpets and area rugs. EPA has guidelines for frequency of cleaning based on traffic, number of household members, pets, children, and smokers. Carpets and rugs act like an air filter and must be cleaned.

Determination of IAQ involves the collection of air samples, monitoring human exposure to pollutants, collection of samples on building surfaces, and computer modeling of air flow inside buildings.

IAQ is part of indoor environmental quality (IEQ), which includes IAQ as well as other physical and psychological aspects of life indoors (e.g. lighting, visual quality, acoustics, and thermal comfort).

EUROSIA ITC SERVICES LTD (EISL) has been hired to inspect the indoor air quality level of **Chorka Textile Limited** EISL has covered all the production section for inspecting the indoor air quality and generated report according to the activity occupancy of the area. In this report, indoor air quality has been checked for all the production section of the factory. For different area of operation, the result has been stated as an average of our collected indoor air quality data.

2.1 Method of Sampling

Analysis of the indoor air quality 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-002).

Relevant Standards										
Parameter	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂	O ₃	CO	TVOC	CH ₂ O	CO ₂
Units	µg/m³							mg/m³		ppm
Method of analysis	Real Time Air Quality Monitoring			Real time Electro Chemical Sensor						
Bangladesh (APCR) Standard for Indoor Air-2022	NYS	150	65	80	80	100	5000	NF	NF	NF
OHSA	15000	NF	5000	9000	13000	200	57260	750	NF	5000
ACGIH	10000	5000	3000	5640	5240	400	28630	NF	NF	5000
NIOSH	NF	NF	NF	1880	5240	200	40800	NF	NF	5000
International /WHO	NF	ISO	75	ISO	125	160	10000	NF	100	< 1100

Pollutant	Primary Sources in Factory	ZDHC Standard (mg/m ³)	Description
Particulate Matter (PM)	Textile machinery, dust from fabric cutting	0.05–0.15	Includes PM2.5 and PM10; impacts respiratory health.
Sulfur Dioxide (SO ₂)	Combustion of fossil fuels, boilers	0.01–0.03	Harmful to respiratory system, causes acid rain.
Nitrogen Oxides (NO _x)	Fuel burning in machinery and generators	0.02–0.06	Contributes to smog and respiratory issues.
Volatile Organic Compounds (VOCs)	Solvents, chemicals in dyes and finishing	0.1–0.5	Includes formaldehyde and benzene; affects indoor air quality.
Carbon Monoxide (CO)	Combustion processes, faulty ventilation	5	Toxic at high levels, causes dizziness and headaches.
Ammonia (NH ₃)	Dyeing and chemical processing	0.1	Can cause irritation to skin, eyes, lungs.
Formaldehyde	Resin finishes, adhesives	0.1	Carcinogenic and irritant, used in fabric treatments.
Ozone (O ₃)	UV radiation from high-power machinery	0.05	Causes respiratory issues; may form by photocopiers and UV curing units.

Level	PTE Performance Criteria for VOCs through Chemicals
Foundational	PTE of VOC capped at 25 tons/year
Progressive	PTE of VOC capped at 15 tons/year
Aspirational	PTE of VOC capped at 5 tons/year

Performance Criteria for VOCs emissions as Per ZDHC Guideline

Note* SPM= Suspended Particulate Matter, PM= Particulate Matter, NO_x= Oxides of Nitrogen, SO₂= Sulphur Di Oxide, VOC = Volatile organic Compound, CO= Carbon Monoxide, CO₂= Carbon Di Oxide, Pb= Lead, O₃=Ozone, & NH₃= Ammonia, NYS= Not Yet Set, PPM= Parts per Million, 1µg/m³ =0.001ppm, PTE=Potential to Emit. Not Yet Set (NYS), Air Pollution Control Rules (APCR), WHO- World Health Organization, NIOSH • The National Institute for Occupational Safety and Health, OHSA - Occupational Safety & Health Administration and ACGIH - American Conference of Governmental Industrial Hygienists

3 Indoor Air Quality Assessment Report

SL No.	Assessment Area			Name of Parameters									
	Building	Floor	Section/Process	SPM	PM2.5	PM10	NO _x	SO ₂	O ₃	CO	TVOC	CH ₂ O	CO ₂
				μg/m ³							mg/m ³		ppm
01	Hlp-CTL-1	G. Floor	Dyeing Section	89	39	75	0	0	0	0	0.048	0.014	398
02			Finishing Section	84	37	79	0	0	0	0	0.047	0.016	480
03			Quality Section	78	36	65	0	0	0	0	0	0	355
04			R and D Section	75	35	50	0	0	0	0	0	0	449
05			Delivery Section	78	36	65	0	0	0	0	0	0	376
06			Sub-Chemical Store	88	39	76	0	0	0	0	0.049	0.015	474
07		MZ. Floor	Dyeing QC Lab	57	34	50	0	0	0	0	0.047	0.013	395
08		1 st Floor	Administrative Office	59	32	37	0	0	0	0	0	0	486
09			Conference Room	63	33	49	0	0	0	0	0	0	350
10			R and D Display Room	58	34	44	0	0	0	0	0	0	460
11			Prayer Space	62	33	59	0	0	0	0	0	0	452
12		2 nd Floor	Finished Fabrics batching Section	78	38	68	0	0	0	0	0	0	340
13		3 rd Floor	Dining Room	75	35	62	0	0	0	0	0	0	422
14			Finished Fabrics batching Section	76	37	67	0	0	0	0	0	0	478
15	Hlp-CTL-5	G. Floor	Dyeing Section	77	36	66	0	0	0	0	0.048	0.013	372
16			Batch Section	79	37	66	0	0	0	0	0	0	345
17			Finishing Section	79	36	64	0	0	0	0	0.046	0.014	455
18			Maintenance Section	79	37	59	0	0	0	0	0	0	373
19			Sub-Chemical Store	82	38	67	0	0	0	0	0.046	0.015	488
20		MZ. Floor	Batching Section	77	36	56	0	0	0	0	0	0	358
21		1 st Floor	Finishing Section	79	37	66	0	0	0	0	0.049	0.014	353
22			Quality Section	67	35	50	0	0	0	0	0	0	492

SL No.	Assessment Area			Name of Parameters									
	Building	Floor	Section/Process	SPM	PM2.5	PM10	NO _x	SO ₂	O ₃	CO	TVOC	CH ₂ O	CO ₂
				μg/m ³							mg/m ³		ppm
23	Hlp-CTL-5	1 st Floor	GPQ Section	66	34	60	0	0	0	0	0	0	345
24		2 nd Floor	All Over Printing Section	83	38	73	0	0	0	0	0.049	0.016	482
25		3 rd Floor	Finishing Section	78	36	67	0	0	0	0	0.048	0.012	389
26	HIP-CTL-3	1 st Floor	Continous Pad Pad (CPP) Dyeing	76	36	69	0	0	0	0	0.047	0.014	396
27		M.Z Floor	Conference Room-2	64	34	58	0	0	0	0	0	0	487
28			Prayer Room-2	71	36	55	0	0	0	0	0	0	388
29		1 st Floor	Yarn Store	79	37	69	0	0	0	0	0	0	345
30		2 nd Floor	Yarn Store	84	38	58	0	0	0	0	0	0	367
31		3 rd Floor	Yarn Store	77	35	53	0	0	0	0	0	0	486
32	HIP-CTL	G. Floor	Yarn Store	78	36	65	0	0	0	0	0	0	358
33			Grey Fabrics Store	79	37	63	0	0	0	0	0	0	338
34			Chemical Warehouse	84	38	78	0	0	0	0	0.048	0.016	356
35		M.Z Floor	Grey Fabrics Store	79	37	67	0	0	0	0	0	0	444
36		1 st Floor	Knitting Section	83	38	77	0	0	0	0	0	0	376
37		2 nd Floor	Knitting Section	80	37	66	0	0	0	0	0	0	488
38		3 rd Floor	Grey Fabrics Store	79	37	66	0	0	0	0	0	0	465
39	HIP-CTL-Dyeing	G. Floor	Water Treatment Plant	85	37	69	0	0	0	0	0.047	0.013	444
40	HIP-Pran-Boiler	G. Floor	Steam Generation Boiler	79	36	68	0	0	0	0	0	0	336
41	HIP-Pran-power	G. Floor	Electricity Generator and Distributor	78	35	59	0	0	0	0	0	0	327
42	HIP-Pran-compressor	G. Floor	Air Supply Compressor Room	79	35	67	0	0	0	0	0	0	377

SL No.	Assessment Area			Name of Parameters									
	Building	Floor	Section/Process	SPM	PM2.5	PM10	NO _x	SO ₂	O ₃	CO	TVOC	CH ₂ O	CO ₂
				μg/m ³							mg/m ³		ppm
43	HIP-Pran-ETP	G. Floor	Biological ETP	85	38	69	0	0	0	0	0.049	0.011	476
44			ETP Lab	59	34	46	0	0	0	0	0.047	0.009	369
45			Sludge Storage	96	39	77	0	0	0	0	0.048	0.017	356
46	HIP-Pran-ETP	G. Floor	Biological ETP	87	38	76	0	0	0	0	0.047	0.016	398
47			Sludge Storage	55	33	49	0	0	0	0	0.039	0.008	368
48		1 st Floor	ETP Lab	95	39	89	0	0	0	0	0.049	0.018	476
49	HIP-Pran-Chemical Shed	G. Floor	Chemical Shed	81	38	68	0	0	0	0	0.048	0.013	467
50	HIP-Pran-Non- Shed	G. Floor	Non-Hazardous Wastage Shed	89	39	78	0	0	0	0	0.047	0.016	473
51	HIP-Pran-sub	G. Floor	Sub Station	69	35	47	0	0	0	0	0	0	367
52	HIP-Pran-compressor room	G. Floor	Fire detection System panel Room	65	34	57	0	0	0	0	0	0	457
53	HIP-Pran-ETP	G. Floor	Fire protection System pump Room	66	34	55	0	0	0	0	0	0	446
54	HIP-Pran-Hazardous	G. Floor	Hazardous Wastage Shed	95	39	87	0	0	0	0	0.049	0.016	448
55	HIP-Pran-RFL-Sun health care	G. Floor	Medical Centre	63	32	43	0	0	0	0	0	0	351
56	HIP-Pran-es-Child Care	G. Floor	Child care Room	75	36	53	0	0	0	0	0	0	396
57	HIP-Pran-es Canteen	G. Floor	CS Canteen	77	36	66	0	0	0	0	0	0	379

SL No.	Assessment Area			Name of Parameters									
	Building	Floor	Section/Process	SPM	PM2.5	PM10	NO _x	SO ₂	O ₃	CO	TVOC	CH ₂ O	CO ₂
				μg/m ³							mg/m ³		ppm
58	HIP-Pran-Cs-Worker Dormitory	G. Floor	CS Dormitory	72	34	61	0	0	0	0	0	0	456
59	CTL Main Building	G. Floor	Yarn Dyeing	72	34	55	0	0	0	0	0	0	386
60			Nylon Dyeing	86	39	79	0	0	0	0	0.049	0.016	378
61			Hydro Room	76	36	66	0	0	0	0	0	0	475
62			RF Dyeing	86	38	66	0	0	0	0	0.045	0.013	438
63			Box Dyeing	83	35	74	0	0	0	0	0.046	0.012	342
64			Dye Room	70	34	68	0	0	0	0	0	0	396
65			SP Conning	73	35	69	0	0	0	0	0	0	336
66			Hard Winding	79	37	68	0	0	0	0	0	0	498
67			Continues Dyeing	85	38	75	0	0	0	0	0.047	0.015	475
68			Distribution Area	83	38	60	0	0	0	0	0	0	424
69			Finished Goods Assembly Area	92	39	88	0	0	0	0	0	0	336
70		M.Z Floor	Lab Dyeing Section	62	36	56	0	0	0	0	0.044	0.011	347
71			Dyeing House Office	68	33	60	0	0	0	0	0	0	377
72			Maintenance Office	69	33	53	0	0	0	0	0	0	446
73			Continues Dyeing Office	70	34	66	0	0	0	0	0	0	456
74		1 st Floor	Crochet Section	83	38	45	0	0	0	0	0	0	397
75			Needle loom Section	82	39	77	0	0	0	0	0	0	366
76			Prayer Room	76	38	65	0	0	0	0	0	0	386
77			Elastic Section office	79	35	62	0	0	0	0	0	0	475
78			Conference Room	57	34	49	0	0	0	0	0	0	447

SL No.	Assessment Area			Name of Parameters									
	Building	Floor	Section/Process	SPM	PM2.5	PM10	NO _x	SO ₂	O ₃	CO	TVOC	CH ₂ O	CO ₂
				μg/m ³							mg/m ³		ppm
79	CTL Main Building	1 st Floor	Distribution and Store Control Room	67	35	54	0	0	0	0	0	0	394
80			Jacquard Section	79	34	59	0	0	0	0	0	0	397
81			Mini Ware House	78	36	67	0	0	0	0	0	0	468
82		2 nd Floor	Soft Winding Section	77	35	68	0	0	0	0	0	0	347
83			Hard Winding Section	76	37	66	0	0	0	0	0	0	436
84			Covering Section	77	36	67	0	0	0	0	0	0	311
85			Drawstring Section	79	37	68	0	0	0	0	0	0	
86			Braiding Section	76	36	60	0	0	0	0	0	0	477
87			Warping Section	65	33	56	0	0	0	0	0	0	378
88			Elastic Finishing	76	35	67	0	0	0	0	0.048	0.015	424
89			Packing Section	78	36	65	0	0	0	0	0	0	336
90			Women Canteen	79	37	64	0	0	0	0	0	0	347
91			Male Canteen	74	37	66	0	0	0	0	0	0	377
92		3 rd Floor	Warehouse Area	78	38	69	0	0	0	0	0	0	446
93			FG Area	77	36	68	0	0	0	0	0	0	456
94	Utility Building	G. Floor	Generator Room	81	36	72	0	0	0	0	0	0	397
95			HT Room	65	32	57	0	0	0	0	0	0	366
96			LT Panel Sub-Station	63	31	56	0	0	0	0	0	0	386
97			Transformer Room	69	35	54	0	0	0	0	0	0	475
98	HRM Service Building	G. Floor	Waiting Section	59	31	48	0	0	0	0	0	0	447
99			Doctor's Room	62	32	53	0	0	0	0	0	0	424
100			Child Care Center	73	34	62	0	0	0	0	0	0	336
101			Dry Canteen	75	35	67	0	0	0	0	0	0	347
102			ETP Area	79	36	61	0	0	0	0	0	0	377

SL No.	Assessment Area			Name of Parameters									
	Building	Floor	Section/Process	SPM	PM2.5	PM10	NO _x	SO ₂	O ₃	CO	TVOC	CH ₂ O	CO ₂
				µg/m ³							mg/m ³		ppm
103	Chemical Building	G. Floor	Chemical Room	89	39	73	0	0	0	0	0.048	0.013	376
104	Chemical Shed	G. Floor	Chemical Area	90	39	78	0	0	0	0	0.049	0.014	389
105	Building-25	Roof Top	Dining Area	78	35	67	0	0	0	0	0	0	375
106		3 rd Floor	Store	76	34	65	0	0	0	0	0	0	467
107		2 nd Floor	Hard Winding Section	83	38	77	0	0	0	0	0	0	398
108			Cotton Area	80	37	74	0	0	0	0	0	0	453
109			Hard Rolling Section	82	38	76	0	0	0	0	0	0	426
110			Covering Area	84	38	77	0	0	0	0	0	0	376
111			QC Section	65	36	54	0	0	0	0	0	0	387
112			Warping Section	83	38	76	0	0	0	0	0	0	454
113			Dying Section	84	39	73	0	0	0	0	0.047	0.013	387
114			Printing Section	82	38	72	0	0	0	0	0.048	0.014	433
115		1 st Floor	Dying Section	83	37	70	0	0	0	0	0.049	0.015	498
116			Jacker Section	79	36	65	0	0	0	0	0	0	376
117			Needle Room	68	37	53	0	0	0	0	0	0	453
118		G. Floor	Office Area	57	32	45	0	0	0	0	0	0	387

Source: Field Survey on 14th March, 2026

****Abbreviations:** CO=Carbon Monoxide; CO₂=Carbon dioxide; O₂=Oxygen; PM₁₀=Particulate Matter 10; PM_{2.5}= Particulate Matter 2.5; VOC=Volatile organic compound, NYS= Not Yet Set, B=Building, (SPM). Not Found (NF)

4 Some Pictorial View During Inspection



5 BAB Certificate



**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.

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



Md. Anwarul Alam
Director General

This certificate must be returned on request; reproduction must follow BAB guidelines. For the specific
scopes to which this accreditation applies, please refer to the Directory of CABs at BAB website.

6 Comments

Eurosia ITC Services Ltd. has inspected the indoor air quality of **Chorka Textile Limited** and ensured that all the production sections are covered as standard limits for indoor air quality is yet to be set by the national guideline, therefore, it cannot conclude whether these parameters are in compliance with the standard or not. However, the proponent needs to consider that the concentration of parameters presented in this report is instantaneous data that had been found during the inspection and may vary over the period of time.

The factory management may follow the below-mentioned recommendation for further improvement of the existing air quality:

- Restrict any kind of onsite waste disposal, incineration, or open burning.
- Improve the existing ventilation system.
- Use household products according to the o manufacturer's directions.
- Dispose of unused or little-used containers safely; buy in quantities that you will use soon.

7 Conclusion

Air Quality 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 the working environment, conducting Air Quality Assessment at regular intervals is essential and **Eurosia ITC Services Ltd.** is appointed by **Chorka Textile Limited** managerial body to perform Air Quality Assessment. The overall condition of this test carried out is satisfactory and justifies the working environment is good.