

Environmental Monitoring Report

PUBLIC

Project No. 51137-003

Semestral Report (January-June 2025)

August 2025

**Bangladesh: Dhaka and Western Zone Transmission Grid Expansion Project
(Part B)**

Prepared by Power Grid Company Limited (PGCB), Government of Bangladesh for the Asian Development Bank (ADB).

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REFERENCE NUMBER	3	FINAL INCIDENT REPORT	SECTION	132 kV Transformer West wall
REPORTED DATE & TIME	20/03/2024		LOCATION	132 kV Transformer West wall at
REPORTED BY	Mr. Rashid		POSITION	Safety Officer

DETAILS OF THE INCIDENT

INCIDENT CLASSIFICATION				
LOSS TIME INCIDENT		LOSS DAY CASE	RESTRICTED WORK CASE	MEDICAL TREAT
FIRST AID CASE	X	PROPERTY DAMAGE	NEAR MISS CASE	ENVIRONMENTAL
		SECURITY CASE	3 RD PARTY CASE	OTHERS

VICTIM DETAILS				
INCIDENT PERSON	Mr. Md. Javed	SEX	Male	REG NUMBER
BIRTH DATE	27/01/2001	AGE	23	NATIONALITY
HOSPITALIZATION	NO	CLINIC		NO
NATURE OF INJURY	Cut	PART OF THE BODY INJURED		n/a
OCCUPATION OF IP	Construction Worker	DATE OF JOINING		25/03/2023
COMPANY	ME	ACTIVITY WHEN INCIDENT HAPPENS		Working point gun

BRIEF DESCRIPTION OF THE INCIDENT:
On 20th March 2024 (Thursday) at around 11:30 AM, incident happened at Rupsha 230/132/33 kV GIS Sub Station. As per investigation to ME Project Manager Mr. Bipra Bera and Site engineer Mr. Tuhin Islam the Site Supervisor Mr. Jashim instructed them to working a used PPE.

ROOT CAUSE:
1. Worker didn't wear safety shoes.
2. Construction material keeping wasn't done properly at site.

CURRENT STATUS & ACTION TAKEN:
1. He was treated with first aid.
2. He is now Physically good.

REMEDIAL / CORRECTIVE ACTION:
1. Wearing proper PPE at site.
2. Properly keep material at Site.

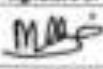
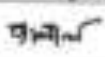
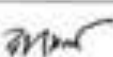
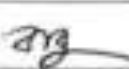
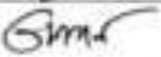
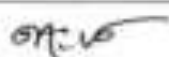
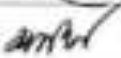
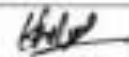
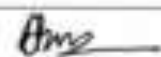
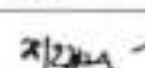
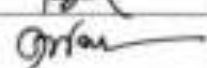
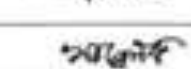
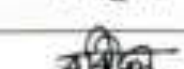
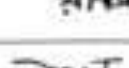
PREPARED BY:	Mr. Rashid	POSITION:	Safety Officer	SIGN:	
CHECK BY:	Bipra Bera	POSITION:	Project MANAGER	SIGN:	

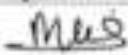
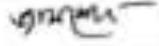
Image Incident Person



Annexure-31: TBT Participant List

Package 2

Name of the Project		Dhaka and Western Zone Transmission Grid Expansion Project (Package-2)	
Title of Training		Date of Training	
Training on Toolbox		15.03.2025	
Name of Trainer		Signature of Trainer	Venue
Mr. Md. Mehedi Hasan Jony			Project Site
SN	Name	Designation	Signature
01	Jalal Uddin	Worker	
02	Rasel	Worker	
03	Babu	Worker	
04	Shohan	Worker	
05	Tarek	Worker	
06	Shahin	Worker	
07	Khalil	Worker	
08	Afsar Ali	Staff	
09	Mahmud	Staff	
10	Jahid	Staff	
11	Arman	Staff	
12	Khalik	Staff	
13	Rabiul	Staff	
14	Emon	Staff	

Name of the Project		Dhaka and Western Zone Transmission Grid Expansion Project (Package-2)	
Title of Training		Date of Training	
Training on Toolbox		17.04.2025	
Name of Trainer		Signature of Trainer	Value
Mr. Md. Mehedi Hasan Jony			Project Site
Sl	Name	Designation	Signature
01	Dipu	Worker	
02	Robin	Worker	
03	Milton	Worker	
04	Mehadi	Worker	
05	Rejaul	Worker	
06	Jamsed	Worker	
07	Rizevee	Worker	
08	Kader	Staff	
09	Nayim	Staff	
10	Tuhin	Staff	
11	Amin	Staff	
12	Rashedul	Staff	
13	Monsur	Staff	

Package 3

L&T CONSTRUCTION
POWER TRANSMISSION & DISTRIBUTION IC

Issue 2-Rev 00

ATTENDANCE SHEET FOR PEP-TALK

Date: 27/03/25
Location: 416, SRTL
Topic: Erection SOP

In Time: 08:00 Am
Out Time: 06:05 Pm

Conducted By: Riaz Hossain

Sl. No.	Name	Designation	Signature
1	Saiful Islam	Foreman / W.O	[Signature]
2	Rasib Hossain	Winch Operator	[Signature]
3	Mirza Hossain	Fitter	[Signature]
4	Anifur Islam	"	[Signature]
5	Md. Sumon	"	[Signature]
6	Rifat Hossain	"	[Signature]
7	Azizul Islam	"	[Signature]
8	Shahmoraz Rahman	"	[Signature]
9	Alim Hossain	"	[Signature]
10	Saykat Hossain Sagar	D. Masters	[Signature]
11	Md. Fazlu	Helper	[Signature]
12	Alomgir Hossain	"	[Signature]
13	Abdullah - Al- Muhit	"	[Signature]
14	Sakil	"	[Signature]
15	Md. Tuhin	"	[Signature]
16	Saddam Hossain	"	[Signature]
17	Ashraf Ali	"	[Signature]
18		"	
19			

Signature of Trainer: [Signature]

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**L&T CONSTRUCTION
POWER TRANSMISSION & DISTRIBUTION IC**

Issue 2-Rev 01

ATTENDANCE SHEET FOR PEP-TALK

Name of the Project: 132/230 KV ADB-3

BU/Segment/Cluster:

Job Code: LE21M261

Date: 02-06-23

Time in : 8:00 am

Location: 89/0

Time Out : 6:05 pm

Topic: Cardinal Rule-1

Conducted By: pantho Das

Sl. No.	Name	Designation	Signature
1	MD. KAMIL	Foreman	KAMIL
2	MD. Khalid	D. Master	Khalid
3	Raja	Fitter	Raja
4	ASADUL	"	ASADUL
5	Boney	"	BONEY
6	Rasel	"	Rasel
7	Rauib	"	Rauib
8	mohammad-1	"	mohammad
9	mohammad-2	"	mohammad
10	Manik	Helper	Manik
11	Bappy	"	Bappy
12	Rabbi	"	Rabbi
13	Joy	"	Joy
14	Siam	Fitter	Siam
15	Hossain	operator	Hossain
16	Hamza	Helper	Hamza
17	Saddam	Fitter	Saddam
18			
19			
20			
21			
Signature of Trainer			

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CS CamScanner

**L&T CONSTRUCTION
POWER TRANSMISSION & DISTRIBUTION IC**

Issue 2-Rev 01
Ref: IM- 8.1.2.2-A

PEP TALK REPORT AND ATTENDANCE SHEET

Name of the Project : **ADG-3**

Location/Area : **37/2**

Name of the Section in-charge:

Name of the EHSO : **Anoop . AT**

Name of the Sub-Contractor/Dept: **Salkat Link**

Number of workmen present : **17**

Date & Time : **04.04.25 8:00 am**

Topics discussed :

- ① Height working time Fall body harness and Fall arrester clamp must be use.
- ② Tools tag line use

Response of workmen : **Good**

Remark / Any significant problem identified: **No**

Signature: _____

Site Engineer

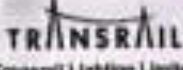


 EHSO

(P.T.O)

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CS CamScanner

 TRANSRAIL Transrail Lighting Limited		Toolbox Meeting / Pep Talk		Format No: TRANSRAIL/CONST./HSE/TBM/016	
				Rev. No: 00 Date: 01.04.2021	

NAME OF THE PROJECT: **ADB (P-4)** PROJECT CODE: **৬৭৭**
 TOOL BOX/MEETING DATE: **০২/০৫/২০২১**
 LOC./VENUE: **১/৮/০**
 TIME: **৪:৩০ AM**
 Number of workers Participation: **13 NOS.**
 TOPIC Discussed: (As per work process) 1. **হলুয়া পাহাড় উপকণ্ঠে মনোযোগ রাখা**
 2. **কিছু স্থানীয় পাহাড় জ্বলানো**
 3. **কাঠখুন্সুর আগুন (মেশিনমারী) চক্করকাট**
 4. **৭০) এলাকা**
 5. **আগুন থেকে দূরত্ব বজায় রাখা**
 6. **আগুন থেকে দূরত্ব বজায় রাখা**
 7. **আগুন থেকে দূরত্ব বজায় রাখা**
 8. **আগুন থেকে দূরত্ব বজায় রাখা**
 9. **আগুন থেকে দূরত্ব বজায় রাখা**
 10. **আগুন থেকে দূরত্ব বজায় রাখা**
 11. **আগুন থেকে দূরত্ব বজায় রাখা**
 12. **আগুন থেকে দূরত্ব বজায় রাখা**
 13. **আগুন থেকে দূরত্ব বজায় রাখা**
 14. **আগুন থেকে দূরত্ব বজায় রাখা**
 15. **আগুন থেকে দূরত্ব বজায় রাখা**
 16. **আগুন থেকে দূরত্ব বজায় রাখা**
 17. **আগুন থেকে দূরত্ব বজায় রাখা**
 18. **আগুন থেকে দূরত্ব বজায় রাখা**

Remarks (if any)

Signature of workmen

Sl. No.	Name of worker Participation	Signature/Thumb	Sl. No.	Name of worker Participation	Signature/Thumb
1	NAZMUL	নাজমুল	10	YOUSUF	ইউসুফ
2	MAJEDUL	মাজেদুল	11	ASIBOR	আসিবর
3	SAGOR	সাগর	12	MEHBAUL	মেহবাবুল
4	SOMAN	সোমন	13	NAZMUL-2	নাজমুল-২
5	ISMAIL	ইসমাইল	14		
6	UZROL	উজ্জ্বল	15		
7	NURUZZAMAN	নুরুজ্জামান	16		
8	MOSTAFA	মোস্তাফা	17		
9	SOHEL	সোহেল	18		

Signature of Site Supervisor/ Site Engg.

HSE Officer/Engg.

Section/Project I/O

Note: Toolbox talk /Pep talk taking on daily basis at least 10-15 min before starting the work at site and it must be delivered by site supervisor/Engg.

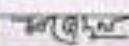
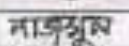
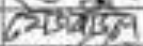
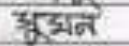
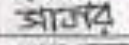
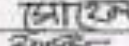
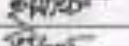
HSE Officer will deliver the TBT at least 2 to 3 times at location in a week as well as Ensure the records of TBT by TLI team at location on daily basis.

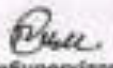
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 Transrail Lighting Limited	Toolbox Meeting / Pep Talk	Format No: TRANSRAIL/CONST./HSE/TBM/016 Rev.No:05 Date:01.04.2021
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NAME OF THE PROJECT: **ADB (P-4)** PROJECT CODE: **GA79.**
 TOOL BOX/MEETING DATE: LOC./VENUE: **1A/0 (04.05.2025)**
 TIME: **8:20 AM.**
 Number of workers Participation: **13 Nos.**
 TOPIC Discussed: (As per work process) 1. **কাজ করার আগে সব মেশিনাট্রিক**
 2. **কাজের জন্য এসে ২ জন।**
 3. **সাইট সুন্দর করে সাজিয়ে রাখার জন্য এসে ২ জন।**
 4. **ওয়েলিং ফর্ম স্ট্যান্ডার্ড করে রাখার জন্য এসে ২ জন।**
 5. **কাজ করার সময় ফর্মের মত করে কাজ করা হবে।**
 Remarks (if any):
 Signature of workman: **কাজ করার সময় ফর্মের মত করে কাজ করা হবে।**
কাজের জন্য এসে ২ জন।

Sl. No.	Name of worker Participation	Signature/Thumb	Sl. No.	Name of worker Participation	Signature/Thumb
1	Mohamed.		10	Mohamed.	
2	Nazmul.		11	Mohamed.	
3	Sumon.		12	Asif.	
4	Sagor.		13	Nazmul-2	
5	Sofel.		14		
6	Ismael		15		
7	Uzzal.		16		
8	Masud.		17		
9	Nurujjaman.		18		

Signature of Site Supervisor / Site Engg.  HSE Officer / Engg.  Section / Project I/C 

Note: Toolbox talk / Pep talk taking on daily basis atleast 10-15 min before starting the work at site and it must be delivered by site supervisor/Engg.
 SE Officer will deliver the TBT atleast 2 to 3 times at location in a week as well as Ensure the records of TBT by TLL team at location on daily basis.

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 Transrail Lighting Limited		Toolbox Meeting / Pep Talk		Format No: TRANSRAIL/CONST./HSE/TBM/018	
				Rev. No: 00 Date: 01.04.2021	
NAME OF THE PROJECT: ADB (P-4)			PROJECT CODE: G1479		
TOOL BOX/MEETING DATE: 05.05.2023					
LOC./VENUE: 1A/10					
TIME: 8:20 AM					
Number of workers Participation: 13 HSE					
TOPIC Discussed: (As per work process) 1. কাজ শুরু করার আগে যত্নপাতি চেক 2. বর্ষার জন্য কাজ নেই। 3. হাট ফলস পরার জন্য এম।এল। 4. হাট ফলস পরার জন্য এম।এল। 5. হাট ফলস পরার জন্য এম।এল।					
Remarks (if any)					
Signature of workmen স্বাক্ষরিত (যে স্বাক্ষর ৭) এম।এল।					
Sl. No.	Name of worker Participation	Signature/Thumb	Sl. No.	Name of worker Participation	Signature/Thumb
1	Mohammad	মহম্মদ	10	Uzzal	উজ্জল
2	Suman -1	সুমন	11	Nazmul -2	নাজমুল
3	Sohel	সোহেল	12	Sohel	সোহেল
4	Nazmul -1	নাজমুল	13	Azizul	আজিজুল
5	Mohammad	মহম্মদ	14		
6	Mohammad	মহম্মদ	15		
7	Suman -2	সুমন	16		
8	Ismael	ইসমাইল	17		
9	Yousuf	ইয়ুসুফ	18		
Signature of Site Supervisor / Site Engg.		HSE Officer/Engg.		Section/Project I/C	
Note: Toolbox talk /Pep talk taking on daily basis at least 10-15 min before starting the work at site and it must be delivered by site supervisor/Engg.					
HSE Officer will deliver the TBT at least 2 to 3 times at location in a week as well as ensure the records of TBT by TLL team at location on daily basis.					

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Package 5

project name: Dhaka western zone Transmission and Expansion project
(package-5)

Date: 02/06/2025

Time: 8:00 AM

১. টিম সদস্যগণ: ১) জাতিদে আল-মুফ-কবীর হুসেইন
২) জাতিদে আল-মুফ-কবীর হুসেইন
৩) জাতিদে আল-মুফ-কবীর হুসেইন
৪) জাতিদে আল-মুফ-কবীর হুসেইন
৫) জাতিদে আল-মুফ-কবীর হুসেইন
৬) জাতিদে আল-মুফ-কবীর হুসেইন
৭) জাতিদে আল-মুফ-কবীর হুসেইন
৮) জাতিদে আল-মুফ-কবীর হুসেইন
৯) জাতিদে আল-মুফ-কবীর হুসেইন
১০) জাতিদে আল-মুফ-কবীর হুসেইন

#	worker name	SL	worker name
01	Rafan	24	Sabur
02	Sharif	25	Milaz
03	Mozam	26	Somrat
04	Swan	27	Shohed
05	Rakib	28	Dilba
06	Jakir	29	Mustul
07	Masum	30	Robin
08	Loblu	31	Faruk
09	Ashok	32	Babu
10	royan	33	Sofis
11	Alif	34	Esmail
12	Alam	35	Jahid
13	Tasnuif	36	Riday
14	Khalil	37	Mithun
15	Raka	38	Sakil
16	Monir	39	Sazzad
17	Robir	40	Mehedi
18	Kali	41	Rasul
19	Sumon	42	Zohad
20	Baba	43	Sikander
21	Rayan	44	Rahman
22	Kutub	45	Mishra
23	Rasel	46	Ripon

Package 6

Project name: Dhaka and Western Zone Transmission Grid Expansion Project (Package-6)

Date: 25/06/2025

Time: 8:10 AM

Task description: ১) জলবিদ্যুৎ সরঞ্জামাদি স্থাপন করা হবে।
২) তার-কোথার দূরত্ব পরিমাপ করা হবে।

SL	Worker name	SL	Worker name
01	Jahid	25	Rubel
02	Habib	26	Morou
03	Amir	27	Susan
04	Mehedi	28	Habib
05	Rakib	29	Rahmet
06	Morou	30	Abdullah
07	Morou	31	Ruf
08	Rakib	32	Makur
09	Morou	33	Jahidul
10	Jahid	34	Rabbani
11	Kashem	35	Jubayer
12	Morou	36	Irfan
13	Sarmat	37	Tuhin
14	Mitko	38	Shuro
15	Rubel	39	Husam
16	Mahabub	40	Makur
17	Jahidul	41	Mustafiz
18	Rahim	42	Royel
19	Kutub	43	Golap
20	Adim	44	Makur
21	Farak	45	Mahid
22	Ripon	46	Abir
23	Salal	47	Zihad
24	Morou	48	Tahmid

Signature: [Signature]

Stamp: CHINA ELECTRIC POWER EQUIPMENT & TECHNOLOGY CO. LTD. (Power Grid)

**GANG Induction**

Project Name: 231/132/33kv GIS 3.3 Rupsha.

Date: 01-Jan-2025

Sl no:	Worker Name	Designation	Signature
01	Rafon	Helper	যাফন
02	Sobhan.	Helper	(সোবান)
03	Jalal.	Manon	জালাল
04	ovaim	"	লোভাইম
05	Momoy	"	মোময়
06	Kobir	Helper	কবির
07	Suruj	Helper	সুরজ
08	Seter	Helper	সেতর
09	Rachul	"	রাচুল
10	Tamol	"	তামোল
11	Azbor	"	আজবর
12	Masud.	"	মাসুদ
13	Rabel	"	রাবেল
14	Rhamim	"	রহামিম
15	Sourav	"	সৌরভ
16	Rumoy	"	রুময়
17	Sobuj	Manon	সবুজ
18	CHAN MIA	Helper	চান মিয়া
19	SHOFIA.	"	শোফিয়া
20	ISLAM	"	ইসলাম
21	Kuddus	Manon	কুদ্দুস
22	ROHIM	Manon	রোহিম
23	KORIM	Manon.	করিম

**GANG Induction**

Project Name: 22x/132/53 kV GIS SS Rupsha.

Date: 01-Jan-2025

Sl no:	Worker Name	Designation	Signature
	শ্রী: জাহান	জাহান	Mason
	শ্রী: হাফিজুল	হাফিজ	Helper
	শ্রী: মোস্তাফিজ	মোস্তাফিজ	Helper
	শ্রী: মোস্তাফিজ	মোস্তাফিজ	Helper
	md. ensan	Mason	Ensan
	md. mostofa	Helper	Mostofa
	md. Mizatul	"	Mizatul
	md. Rabbi	"	Rabbi
	md. Hasan	"	Hasan
	md. Riaz	"	Riaz
	md. Fahad	Mason	Fahad
	md. Roni	"	Roni
	md. Nurrobbi	Helper	Nurrobbi
	md. Shahin	"	Shahin
	md. Nazmul	"	Nazmul
	md. Ratul	"	Ratul
	md. Jafna	Mason	Jafna
	md. Arifur	Helper	Arifur
	md. Miraz	Helper	Miraz
	md. Litu	Helper	Litu
	md. Josim	Helper	Josim
	md. Masum	Helper	Masum
	md. Rana		Rana



Annexure-32: Environmental Monitoring Pictures

Air Quality

Package 2



AQ1- In front of Eye Hospital, near the Substation Area in Bashundhara Residential Area



AQ-2 – Mosque, Near United International University (UIU)



AQ-3- Near the Substation Area of Aftabnagar

Package 4



Package 5



AQ29 In front of Hafej Sheikh's House



AQ30 Located Near Nolir Bridge



AQ31 In front of Mamun Mia's House



AQ32 In front of Late Abdul Razzak's House

Package 6



AQ33 In front of Dulal Mia's house



AQ34 In front of Dipak Chakraborty's Shop



AQ35 In front of Boro Kau Shree Shree Sarbojonin Durga Mondir



AQ36 In front of Mohadev Karmakar's house

Package 7



AQ37 Near 132/33 kV GIS substation at Phultola



AQ38 Near 230/132/33 kV GIS substation at Rupsha



AQ39 Near 132/33 kV GIS substation at Maheshpur



AQ40 Near 132/33 kV GIS substation at Meherpur



AQ41 Near 132/33 kV GIS substation at Manirampur

Noise Level Monitoring

Package 2



NL-1 Near the Substation Area in Bashundhara Residential area



NL-2 Near United International University (UIU) Mosque



NL-3 Near the Substation Area of Aftabnagar



NL-4 Near United International University (UIU)



NL-5 Near Base Camp Area



NL-6 Near Aftabnagar



NL-7 Near Hospital in Aftabnagar

Package 5



NL 33, In front of Hafej Sheikh's House



NL 34, Beside Kaliganj- Kapasia Rd. located near Nolir Bridge



NL 35, In front of Mamun Mia's House



NL 36, In front of Late Abdul Razzak's House

Package 6



NL37 In front of Dulal Mia's house



NL38 In front of Dipak Chakraborty's Shop



NL39 In front of Boro Kau Shree Shree Sarbojonin Durga Mondir



NL40 In front of Mohadev Karmakar's house

Package 7



NL41 Near 132/33 kV GIS substation at Phultola



NL42 Near 230/132/33 kV GIS substation at Rupsha

	
NL43 Near 132/33 kV GIS substation at Maheshpur	NL44 Near 132/33 kV GIS substation at Meherpur
	
NL45 Near 132/33 kV GIS substation at Manirampur	

Surface Water Sampling

Package 2



SW-1- Lake side, Near Bashundhara L Block



SW-2- Canal, Near United International University



SW-3- Canal, Near Aftabnagar Steel Bridge

Package 4



Package 5

	
SW9 Nolir Khal	SW10 Nolir Khal
	
SW11 Nolir Khal	SW12 Nolir Khal

Package 6

	
SW13 Khal Beside Dulal, Mia's	SW14 Tongi Khal



SW16 Tongi Khal



SW17 Tongi Khal

Package 7



SW-17 Near 132/33 kV GIS substation at Phultola



SW-18 Near 230/132/33 kV GIS substation at Rupsha



SW-19 Near 132/33 kV GIS substation at Maheshpur



SW-20 Near 132/33 kV GIS substation at Meherpur



SW-21 Near 132/33 kV GIS substation at Manirampur

Ground Water

Package 2



GW-1- Groundwater, Eye Hospital, Near the Substation Area in Bashundhara Residential Area



GW-2- Groundwater, Mosque, Near United International University



GW-3- Groundwater, Mosque, Near the Substation Area of Aftabnagar

Package 4



Package 5



GW10 Hafej Sheikh's House near Nolir Bridge

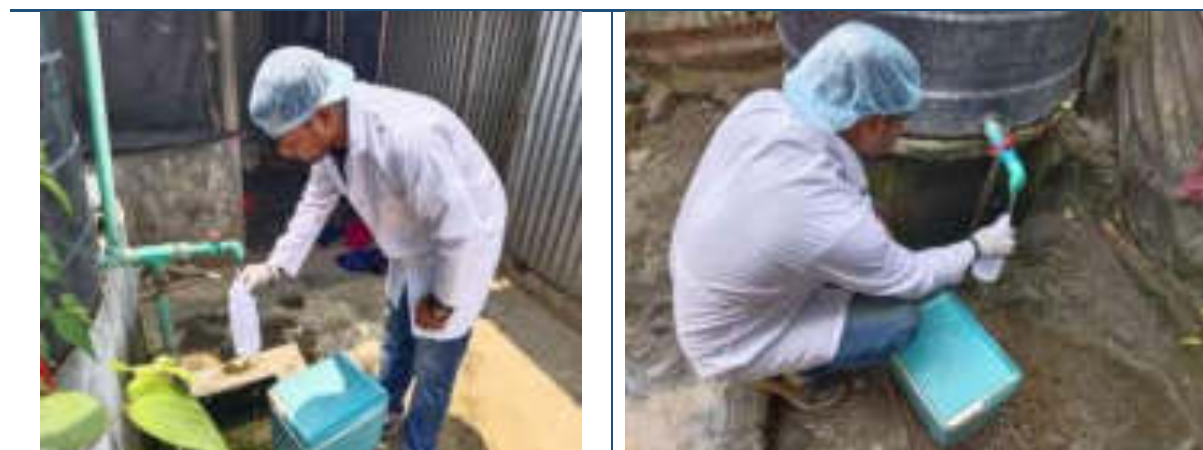


GW11 Beside Kaliganj- Kapasia Rd. located

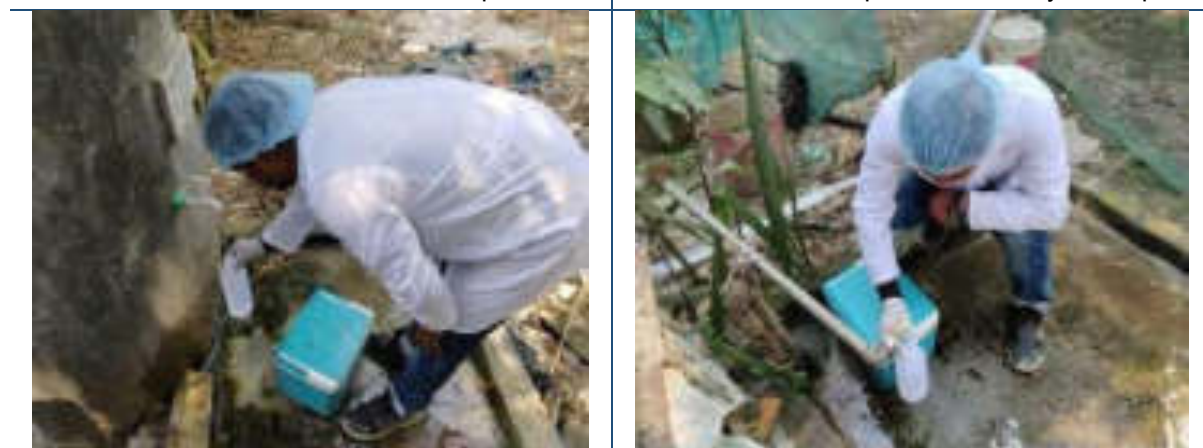


GW12 Mamun Mia's House	GW13 Late Abdul Razzak's House
------------------------	--------------------------------

Package 6



GW14 Beside Dulal Mia's Shop	GW15 Beside Dipak Chakraborty's Shop
------------------------------	--------------------------------------



GW 16 Beside Boro Kau Shree Shree Sarbojonin Durga Mondir	GW17 Beside Mohadev Karmakar's house
---	--------------------------------------

Package 7



GW18 Near 132/33 kV GIS substation at Phultola	GW19 Near 230/132/33 kV GIS substation at Rupsh
--	---



GW20 Near 132/33 kV GIS substation at Maheshpur



GW21 Near 132/33 kV GIS substation at Meherpur



GW22 Near 132/33 kV GIS substation at Manirampur

Soil Sampling

Package 2



SQ-1- Non-agricultural land, Near the Substation Area in Bashundhara Residential Area



SQ-2- Non-agricultural land, Mosque, Near United University



SQ-3- Non-agricultural land, Near the Substation Area of Aftabnagar

Package 4



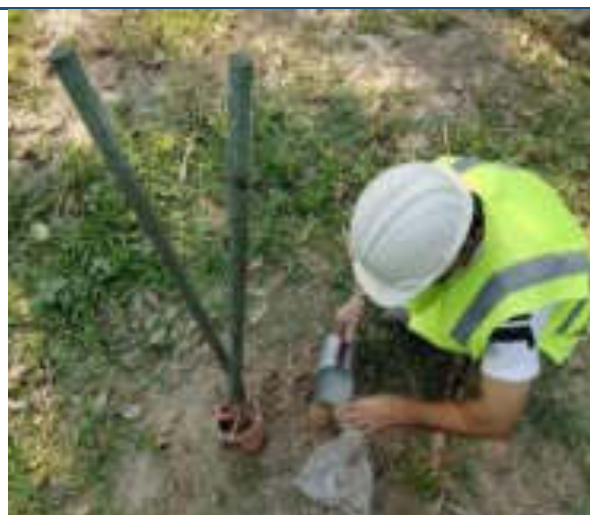
Package 5



SQ 9 Hafej Sheikh's House



SQ 10 Beside Kaliganj- Kapasia Rd. located near Nohir Bridge



SQ 11 Beside the Bridge of Mohani Fuldi Road



SQ 12 Beside the Late Abdul Razzak's House

Package 6



SQ13 In front of Dulal Mia's house



SQ14 In front of Dipak Chakraborty's Shop



SQ15 Beside Boro Kau Shree Shree Sarbojonin
Durga Mondir



SQ16 Beside Mohadev Karmakar's house

Package 7

	
SQ 17 Near 132/33 kV GIS substation at Phultola	SQ 18 Near 230/132/33 kV GIS substation at Rupsha
	
SQ 19 Near 132/33 kV GIS substation at Maheshpur	SQ 20 Near 132/33 kV GIS substation at Meherpur
	
SQ 21 Near 132/33 kV GIS substation at Manirampur	

Annexure-33: Environmental Monitoring Lab Sheet

Package 2




Ref: ECA/2025/106/AQM

Test Results of Ambient Air Quality Analysis

Name of Project	Dhaka and Western Zone Transmission Grid Expansion Project (Package 2)								
Description of Sample	Ambient Air Quality Monitoring (AAQM)								
Sample Collector	Collected by EnviroCare Technical Team								
Sample Date	26.04.2025								
Date of Analysis	30.04.2025-04.05.2025								
Reporting Date	05.05.2025								

Sl. No.	Sample Locations	Concentration presents different parameters in ambient air							
		SPM	PM ₁₀	PM _{2.5}	Pb	SO ₂	NO _x	O ₃	CO
1	AAQM-I-Near the Substation Area in Bashundhara Residential Area (GPS: 23.81644N 90.43622E)	96.12	41.22	20.73	BDL	11.28	18.21	7.18	0.88
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³
	Duration	8	24	24	24	24	24	8	8
	Method of Analysis	Light Scattering Nephelometer			AAS		High Sensitivity Electrochemical		
	Bangladesh Standard	200	150	45	0.5	88	99	100	5

*Standard: Air pollution Control Rules (APCR) On 20th July 2022: Vide S.R.O. NO. 255-Law/ 2022 and Environment Conservation Rules (ECR) 1997 through its subsequent amendment on 18th July, 2005; vide S.R.O. NO. 220-Law/2005.

Note: This ambient air monitoring report was usually accomplished by- portable OCEANUS AQM-39 & Air Sampler with Attachment (Single Head).

*Note: BDL = Below the detection level, AAS=Atomic Absorption Spectroscopy

Serial No.	Temperature	Humidity	Wind Speed
01	31.78 degreeCelsius	78.52%	1.7 m/s

Source: On site Recording by Anemometer



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Ref: ECL/2025/107/AQM

Test Results of Ambient Air Quality Analysis

Name of Project	Dhaka and Western Zone Transmission Grid Expansion Project (Package 2)							
Description of Sample	Ambient Air Quality Monitoring (AAQM)							
Sample Collector	Collected by EnviroCare Technical Team							
Sample Date	28.04.2025							
Date of Analysis	30.04.2025-04.05.2025							
Reporting Date	05.05.2025							

Sl. No.	Sample Locations	Concentration presents different parameters in ambient air							
		SPM	PM ₁₀	PM _{2.5}	PO	SO ₂	NO ₂	CO	OD
2	AAQM-2 Near United International University (UIU) Mosque GPS: 23.789789 90.408879	83.36	39.71	17.22	80.6	14.28	23.11	9.97	9.82
	Unit	µgm ³	µgm ³	µgm ³	µgm ³	µgm ³	µgm ³	µgm ³	mgm ³
	Duration	8	24	24	24	24	24	8	8
	Method of Analysis	Light Scattering Nephelometer			AAS	High Sensitivity Electrochemical			
	Bangladesh Standard	200	150	65	8.5	80	80	100	5

*Standard: Air pollution Control Rules (APCR) On 20th July 2022, Vide S.R.O. NO. 255-Law/2022 and Environment Conservation Rules (ECR) 1997 through its subsequent amendment on 19th July, 2023; vide S.R.O. NO. 220-Law/2008.

Note: This ambient air monitoring report was usually accomplished by- portable OCEANUS AQM-01 & Air Sampler with Attachment (Single Head)

*Note: BDL = Below the detection level, AAS=Atomic Absorption Spectroscopy

Serial No.	Temperature	Humidity	Wind Speed
01	32.5° (Fahrenheit)	71.52%	1.9 m/s

Source: On site Recording by Anemometer





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Ref: ECL/2025/108/AQM

Test Results of Ambient Air Quality Analysis

Name of Project	Dhaka and Western Zone Transmission Grid Expansion Project (Package 2)								
Description of Sample	Ambient Air Quality Monitoring (AAQM)								
Sample Collector	Collected by EnviroCare Technical Team								
Sample Date	28.04.2025								
Date of Analysis	30.04.2025-04.05.2025								
Reporting Date	05.05.2025								

Sl. No.	Sample Location	Concentration presents different parameters in ambient air							
		SPM	PM ₁₀	PM _{2.5}	Pb	SO ₂	NO ₂	O ₃	CO
3	AAQM-3: Near the Station Area of Ashrafiagar GPS: 23.78887N 90.43124E	47.88	27.78	10.31	NDL	10.33	18.75	6.55	0.39
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³
	Duration	6	24	24	24	24	24	6	6
	Method of Analysis	Light Scattering Photometer			AAD		High Sensitivity Electrochemical		
	Bangladesh Standard	200	150	45	0.5	80	80	180	5

*Standard: Air pollution Control Rules (APCR) On 20th July 2022; Vide S.R.O. NO. 255-Law/2022 and Environment Conservation Rules (ECR) 1987 through its subsequent amendment on 18th July, 2005; vide S.R.O. NO. 220-Law/2005.

Note: This ambient air monitoring report was usually accomplished by- portable OCEANUS AQM-09-5 Air Sampler with Attachment (Single Head)

*Note: NDL = Below the detection level, AAS=Atomic Absorption Spectroscopy

Serial No.	Temperature	Humidity	Wind Speed
01	30.73 degree Celsius	71.92%	1.8 m/s

Source: On site Recording by Anemometer





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Ref: EGIL/2025/01/ANLM

Test Results of Noise Level Analysis

Name of Project	: Dhaka and Western Zone Transmission Grid Expansion Project (Package 3)
Description of Sample	: Ambient Noise Level Monitoring (ANLM)
Sample Collector	: Collected by EnviroCare Technical Team
Sample Date	: 28.04.2025
Date of Analysis	: 30.04.2025-04.05.2025
Reporting Date	: 05.05.2025

Sampling Location

Sl. No	Sample Locations	Sampling ID
1	Near the Substation Area in Bashundhara Residential Area 23.81641N 90.43627E	ANLM-1

Test Result

Location	Concentration Present (dBA)						Category	
	Day			Night				
	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}	L _{min}		
ANLM-1 Near the Substation Area in Bashundhara Residential Area	56.72	81.3	48.5	38.81	74.1	33.3	Mixed	
Bangladesh Standard							Day Time	Night Time
Industrial area							75	70
Commercial							70	60
Mixed area							65	55
Residential area							55	45
Silent Area							50	40
World Bank / IFC Standard								
Industrial area							70	70
Residential, Industrial, Educational							55	45



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Ref: ECIL/2025/02/ANLM

Test Results of Noise Level Analysis

Name of Project	Dhaka and Western Zone Transmission Grid Expansion Project (Package 2)
Description of Sample	Ambient Noise Level Monitoring (ANLM)
Sample Collector	Collected by EnviroCare Technical Team
Sample Date	28.04.2025
Date of Analysis	30.04.2025-04.05.2025
Reporting Date	05.05.2025

Sampling Location

Sl. No	Sample Locations	Sampling ID
2	Near United International University (UIU) Mosque 23.79982N 90.44888E	ANLM-2

Test Result

Location	Concentration Present (dBA)						Category
	Day			Night			
	L_{eq}	L_{max}	L_{min}	L_{eq}	L_{max}	L_{min}	
ANLM-2 Near United International University (UIU) Mosque	45.52	61.8	34.5	38.55	57.8	32.4	Green
Bangladesh Standard							Day Time Night Time
Industrial area							75 70
Commercial							70 65
Mixed area							65 55
Residential area							55 45
Green Area							50 40
World Bank / IFC Standard							Day Time Night Time
Industrial area							70 70
Residential, Institutional, Educational							55 45



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Ref: ECIL/2025/03/ANLM

Test Results of Noise Level Analysis

Name of Project	: Dhaka and Western Zone Transmission Grid Expansion Project (Package 2)
Description of Sample	: Ambient Noise Level Monitoring (ANLM)
Sample Collector	: Collected by EnviroCare Technical Team
Sample Date	: 28.04.2025
Date of Analysis	: 30.04.2025-04.05.2025
Reporting Date	: 05.05.2025

Sampling Location

Sl. No	Sample Locations	Sampling ID
3	Near the Substation Area of Afatnagar 23.76609N 90.43125E	ANLM-3

Test Result

Location	Concentration Present (dBA)						Category
	Day			Night			
	L_{eq}	L_{max}	L_{min}	L_{eq}	L_{max}	L_{min}	
ANLM-3 Near the Substation Area of Afatnagar	54.18	87.3	30.9	41.81	85.3	34.1	Exceed
Bangladesh Standard							Day Time Night Time
Industrial area							75 70
Commercial							70 60
Mixed area							65 55
Residential area							55 45
Silent Area							50 40
World Bank / IFC Standard							
Industrial area							70 70
Residential, Institutional, Educational							55 45



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Ref: ECIL/2025/04/ANLM

Test Results of Noise Level Analysis

Name of Project	Dhaka and Western Zone Transmission Grid Expansion Project (Package 2)
Description of Sample	Ambient Noise Level Monitoring (ANLM)
Sample Collector	Collected by EnviroCare Technical Team
Sample Date	28.04.2025
Date of Analysis	30.04.2025-04.05.2025
Reporting Date	05.05.2025

Sampling Location

Sl. No	Sample Locations	Sampling ID
4	Near United International University (UIU) 23.79022N 90.44926E	ANLM-4

Test Result

Location	Concentration Present (dBA)						Category	
	Day			Night				
	L_{eq}	L_{max}	L_{min}	L_{eq}	L_{max}	L_{min}		
ANM-4 Near United International University (UIU)	58.91	85.3	41.8	47.85	73.5	32.6	Noise	
Bangladesh Standard							Day Time	Night Time
Industrial area							70	70
Commercial							70	60
Mixed area							60	50
Residential area							55	45
Silent Area							50	40
World Bank / IFC Standard								
Industrial area							70	70
Residential, Institutional, Educational							55	45



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Ref: ECIL/2025/05/ANLM

Test Results of Noise Level Analysis

Name of Project	Dhaka and Western Zone Transmission Grid Expansion Project (Package 2)
Description of Sample	Ambient Noise Level Monitoring (ANLM)
Sample Collector	Collected by EnviroCare Technical Team
Sample Date	28.04.2025
Date of Analysis	30.04.2025-04.05.2025
Reporting Date	05.05.2025

Sampling Location

Sl. No	Sample Locations	Sampling ID
5	Near Base Camp Area 23.76816N 90.44922E	ANLM-5

Test Result

Location	Concentration Present (dB(A))						Category
	Day			Night			
	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}	L _{min}	
ANM-5 Near Base Camp Area	53.78	77.8	38.8	43.28	68.1	33.9	Mixed
Bangladesh Standard							
Industrial area							
Commercial							
Mixed area							
Residential area							
Silent Area							
World Bank / IFC Standard							
Industrial area							
Residential, National, Educational							

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Ref: ECIL/2025/28/ANLM

Test Results of Noise Level Analysis

Name of Project	: Dhaka and Western Zone Transmission Grid Expansion Project (Package 2)
Description of Sample	: Ambient Noise Level Monitoring (ANLM)
Sample Collector	: Collected by EnviroCare Technical Team
Sample Date	: 28.04.2025
Date of Analysis	: 30.04.2025-04.05.2025
Reporting Date	: 05.05.2025

Sampling Location

Sl. No	Sample Locations	Sampling ID
6	Near Mosque in Aftabnagar 23.76486N 90.44791E	ANLM-6

Test Result

Location	Concentration Present (dB(A))						Category	
	Day			Night				
	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}	L _{min}		
ANLM-6	57.15	78.5	38.8	42.73	63.3	33.8	Silent	
Near Mosque in Aftabnagar								
Bangladesh Standard							Day Time	Night Time
Industrial area							70	70
Commercial							70	60
Mixed area							60	50
Residential area							55	45
Silent Area							50	40
World Bank / IFC Standard								
Industrial area							70	70
Residential, National, Educational							55	45




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 Assistant Consultant (Environment)


Reviewed By
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Ref: ECIL/2025/07/ANLM

Test Results of Noise Level Analysis

Name of Project	Dhaka and Western Zone Transmission Grid Expansion Project (Package 2)
Description of Sample	Ambient Noise Level Monitoring (ANLM)
Sample Collector	Collected by EnviroCare Technical Team
Sample Date	28.04.2025
Date of Analysis	30.04.2025-04.05.2025
Reporting Date	05.05.2025

Sampling Location

Sl. No	Sample Locations	Sampling ID
7	Near Hospital in Mirpur 23.76577N 90.43756E	ANLM-7

Test Result

Location	Concentration Present (dB)						Category	
	Day			Night				
	L _{eq}	L _{day}	L _{max}	L _{eq}	L _{max}	L _{min}		
ANM-7 Near Hospital in Mirpur	45.02	69.9	33.8	37.58	58.6	33.5	Green	
Bangladesh Standard							Day Time	Night Time
Industrial area							70	70
Commercial							70	60
Mixed area							60	50
Residential area							55	45
World Bank							55	45
World Bank / IFC Standard								
Industrial area							70	70
Residential, National, Educational							55	45



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Customer/Accounts/Office Copy

Physical, Chemical, Bacteriological Analysis of Surface Water Sample

Name of the Project	1. Dhaka and Western Zone Transmission Grid Expansion Project (Package-2)
Name of the Contractor	1. BEEESL LTD.
Description of sample	1. Surface Water
Location	1. Dhaka
Sample Collection	1. Collected by Project, per Technical Team
Analyzed By	1. BEEESL Laboratory
Sample Collection Date	1. 18.04.2023

LABORATORY TEST RESULTS

S. No.	Parameters	Unit	Analysis Method	Concentration			Bangladesh Standard (BS-1000:2012)
				CONC. 1	CONC. 2	CONC. 3	
1	Ammonia	mg/L	UVS	0.13	0.09	0.10	0.5
2	Biochemical Oxygen Demand (BOD ₅)	mg/L	5 days incubation	18	13	15	10
3	Chemical Oxygen Demand (COD)	mg/L	CRM	39	40	37	10
4	Coliform (Total)	CFU/100 ml	MFA	126	118	104	1000
5	Dissolved Oxygen (DO)	mg/L	Dissolved	6.8	6.2	5.8	≥5.0
6	pH	-	pH Meter	7.1	6.9	6.9	6.5
7	Total Dissolved Solid (TDS)	mg/L	Dissolved	440	440	440	1000
8	Total Suspended Solid (TSS)	mg/L	Gravimetric Method	4	3	4	NYS
9	Turbidity	NTU	Turbidity Meter	6.8	6.0	6.7	NYS
10	NO ₃ -N	mg/L	UV-Visible Spectrophotometer	0.13	0.12	0.10	NYS
11	Oil and Grease	mg/L	APHA 2540 (2017) (5120-B)	2.1	2.2	2.4	NYS
12	PO ₄	mg/L	UV-Visible Spectrophotometer	0.02	0.01	0.00	2.0
13	TPH	mg/L	Gravimetric	~2.0	~2.0	~2.0	NYS

NOTE: BOD – Biochemical Oxygen Demand; DO – Dissolved Oxygen; CRM – Closed Reflux Method; MFA – Membrane Filtration Method; UVS – UV-Visible Spectrophotometer; TDS – Total Dissolved Solid; TSS – Total Suspended Solid; NTU – Nephelometric Turbidity Unit; pH – Potential Hydrogen; NY – Not Yet Set

Lab Test Performed by	Reviewed and checked by	Approved By
		
Md. Nazim Hossain Executive (Environmental Lab), BEEESL 18.04.2023	Md. Nazim Hossain Environmental Monitoring Officer (Executive), BEEESL 18.04.2023	Dr. Fatima Akter Director, BEEESL 18.04.2023



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Physical/Chemical/Bacteriological Analysis of Groundwater Sample

Name of the Project	1. Dhaka and Western Zone Transmission Grid Expansion Project (Package-2)
Name of the Contractor	2. BEE T & L
Description of sample	3. Groundwater
Location	4. Dhaka
Sample Collection	5. Collected by Project, per Technical Team
Analyzed By	6. BEE T & L Laboratory
Sample Collection Date	7. 12.04.2023

LABORATORY TEST RESULTS

S. No.	Parameters	Unit	Analysis Method	Concentration			Bangladesh Standard (BIS-1083)
				CON-1	CON-2	CON-3	
1	Arsenic (As)	mg/L	AAS	0.001	0.001	0.001	0.05
2	Chloride	mg/L	Titrimetric	25	25	25	250 ¹
3	Calcium (Ca)	mg/L	EDTA	0	0	0	0
4	Calcium (Total)	mg/L	EDTA	0	0	0	0
5	EC	µS/cm	EC Meter	111	260	280	NYS
6	Iron (Fe)	mg/L	AAS	0.01	0.04	0.01	0.3 (BIS)
7	Magnesium (Mg)	mg/L	AAS	0.01	0.02	0.01	0.4
8	pH	-	pH Meter	7.1	7.2	7.2	6.5-8.5
9	Sulphate	%	Gravimetric	0.04	0.07	0.07	NYS
10	TDS	mg/L	Gravimetric	<1.0	<1.0	<1.0	NYS
11	Turbidity	NTU	Turbidity Meter	0.05	0.0	0.02	1

***NOTE:** BIS = Bangladesh Standard, AAS = Atomic Absorption Spectrophotometer, EDTA = Ethylenediamine Tetraacetic Acid, EC = Electrical Conductivity, TDS = Total Dissolved Solids, NTU = Nephelometric Turbidity Unit, pH = Potential of Hydrogen.

Lab Test Performed by	Reviewed and checked by	Approved By
		
Md. Nasim Reza Executive (Environmental Lab), BEE T & L, 12.04.2023	Md. Nasim Reza Environmental Monitoring Officer (Executive), BEE T & L, 12.04.2023	Dr. Farima Akter Director, BEE T & L, 12.04.2023



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Analysis of Soil Sample

Name of the Project	Thakur and Mithun Road Transmission and Distribution Project (Phase II)
Name of the Contractor	THK & M, LTD.
Description of sample	Topsoil (0-15 cm)
Sample Collection	1. Collection by hand and by Trench at Zone
Sample No.	1007/1/14 - Laboratory
Sample Collection Date	12.05.2022

LABORATORY TEST RESULTS

Sl. No.	Sampling No.	Concentration of Chemicals (mg/kg)					
		pH	Moisture (%)	Total P (%)	Calcium (%)	Chlorine (%)	Fluoride (%)
1	1007/1/14	7.4	15.5	0.07	0.07	0.00	0.11
2	1007/1/14	7.4	15.5	0.07	0.07	0.00	0.11
3	1007/1/14	7.4	15.5	0.07	0.07	0.00	0.11
Total				0.07			0.11
Mean Standard		7.4	15.5	0.07	0.07	0.00	0.11

*NOTE: pH < 6.5 is acidic, 6.5 to 7.5 is neutral, > 7.5 is basic.

Lab Test Performed by	Reviewed and Reported by	Signature No.
 Md. Mithun Executive Environmental Lab., 1007/1/14	 Md. Mithun Environmental Monitoring Lab., 1007/1/14	 Dr. Farhan Akter Executive, 1007/1/14
12.05.2022	12.05.2022	12.05.2022

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Package 4



Report No. _____

Client Power Grid Bangladesh PLC

Project Dhaka and Western Zone Transmission Grid Expansion Project

Location Dhaka, Bangladesh

Report Date _____

Reported By _____

Reviewed By _____

Approved By _____

Test Report

Reference No.	HSA 11903	Test Name	Ambient Air Quality
Sample ID	AQ-(04-25)		
Sample Receiving Date	Line Name	Tower ID	Sampling Date
		1. T-310	• 03-05-2025
	Bagerhat-Propun-Bhandara	2. T-410	• 04-05-2025
		3. T-510	• 05-05-2025
		4. T-1510	• 06-05-2025
		5. T-1710	• 07-05-2025
		6. T-110	• 21-05-2025
	Purbaswedipur-Domar	7. T-610	• 22-05-2025
		8. T-1610	• 23-05-2025
		9. T-2510	• 24-05-2025
		10. T-2510	• 25-05-2025
		11. T-310	• 15-05-2025
	Narail-Patnabata	12. T-910	• 16-05-2025
		13. T-1210	• 17-05-2025
		14. T-1510	• 18-05-2025
		15. T-1710	• 19-05-2025
		16. T-410	• 27-05-2025
	Domar-Hatibandha	17. T-1210	• 28-05-2025
		18. T-1210	• 29-05-2025
		19. T-1610	• 30-05-2025
		20. T-2510	• 31-05-2025
		21. TT-2	• 09-05-2025
	Gopalganj(N)-Bilcher	22. T-1710	• 10-05-2025
23. T-1510		• 11-05-2025	

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Table 2: Ambient Air Quality Monitoring Result

Sl. No.	Code	Ambient Air Pollution Concentration							
		CO (ppm)	SPM ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₃ ($\mu\text{g}/\text{m}^3$)
Bagerhat-Pingur-Bhandara TL									
1	AQ-04	2.4	53.3	38	41	0.0045	23	6.8	7.9
2	AQ-05	2.3	59.8	32	46	0.0064	22	5.3	16.1
3	AQ-06	2.4	64.6	45	38.5	0.0066	18	5.9	13
4	AQ-07	2.3	62.2	42	54.6	0.0031	24	13.8	11.6
5	AQ-08	2.1	61.6	43	55.9	0.0042	26	11.4	6.9
Purbas Sadgon-Dumai TL									
6	AQ-09	3.3	61.1	32	47	0.002	25	9.8	13.5
7	AQ-10	3.3	63.7	38	48	0.02	25	6.1	14.6
8	AQ-11	3.3	67.6	41	32	0.012	24	8.8	15.2
9	AQ-12	3.3	62.4	35	48	0.002	25	9.8	16.6
10	AQ-13	3.3	72.6	44	58	0.013	24	6.4	11.5
Narayanpur-Pantola TL									
11	AQ-14	3.4	61.1	30	47	0.0032	22	13.1	9.7
12	AQ-15	3.4	65	37	30	0.0058	24	9.8	12.6
13	AQ-16	3.3	62.4	32	48	0.0068	25	11.6	14.6
14	AQ-17	3.3	63.7	38	48	0.006	23	13.7	7.3
15	AQ-18	3.3	66.3	33	31	0.0042	21	12.9	8.1
Gopalganj-Shakher TL									
16	AQ-19	3.4	71.5	37	33	0.0036		12.9	19.3
17	AQ-20	3.4	75.2	43	34	0.0052		10.7	13.4
18	AQ-21	3.4	79.3	43	61	0.0071		16.8	16
19	AQ-22	3.4	75.4	36	38	0.0036		13.4	12.6
20	AQ-23	3.4	88.8	32	46	0.0062		12.6	14
Dumai-Hatibanda TL									
21	AQ-24	3.4	75.2	43	34	0.012	22	5.4	7.5
22	AQ-25	3.4	80.6	41	62	0.019	24	5.2	7

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Sl. No.	Code	Ambient Air Pollution Concentration							
		CO (ppm)	SPM ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₃ ($\mu\text{g}/\text{m}^3$)
23	AQ-26	3.4	72.8	44	50	0.008	22	5.8	6.9
24	AQ-27	3.3	79.3	42	61	0.002	16	6.4	7.1
25	AQ-28	3.3	76.7	39	58	0.013	21	6.2	6.5
Bangladesh Standard (I)		5	-	65	150	0.5	60	-	-
WHO Standard (II)		10	NA	15	45	NA	40	20	40 (Annual)
Duration (Hours)		8 Hour	-	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour

Taufiqul Tahir

Taufiqul Tahir
Sr. Executive

Eng. Syed Tanzeem Mahmood

Eng. Syed Tanzeem Mahmood
CEO and Chief Environmental Engineer

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Test Report

Reference No	UN 11026	Test Name	Ambient Noise Level
Sample ID	AN-011-05		
Sample Receiving Date	Line Name	Tower ID	Sampling Date
	Bagerhat-Pirguri-Bhandara	1. T-210	• 03-05-2025
		2. T-410	• 04-05-2025
		3. T-510	• 05-05-2025
		4. T-1510	• 06-05-2025
		5. T-1710	• 07-05-2025
	Purbasudpur-Domra	6. T-110	• 21-05-2025
		7. T-610	• 22-05-2025
		8. T-1610	• 23-05-2025
		9. T-2610	• 24-05-2025
		10. T-2510	• 25-05-2025
	Hemabpur-Hatibata	11. T-310	• 15-05-2025
		12. T-910	• 16-05-2025
		13. T-1210	• 17-05-2025
		14. T-1510	• 18-05-2025
		15. T-1710	• 19-05-2025
	Domra-Hatibata	16. T-410	• 27-05-2025
		17. T-1110	• 28-05-2025
		18. T-1210	• 29-05-2025
		19. T-1610	• 30-05-2025
		20. T-2610	• 31-05-2025
	Gopalganj(N)-Bishchar	21. TT-2	• 09-05-2025
		22. T-1710	• 10-05-2025
		23. T-1510	• 11-05-2025

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	24. T-810	+	12-05-2025
	25. T-310	•	13-05-2025
Date of Submission:	14/07/2025		
Client Name	Turawal Lighting Ltd.	Sample Type	Noise Level Monitoring

Table 1: Standards for Ambient Noise

Standard	Zone	Day time - dB	Night time-dB
IFC/World Bank Group EHS Guidelines, 2007	Residential, Institutional, Educational	55	45
	Industrial, commercial	70	70
Sound Pollution Control Rules 2008	Mixed area	60	50
	Commercial	70	60
	Industrial	75	70

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Table 2: Ambient Noise Level Monitoring Result for Bagherhat-Firozpur-Bhambura Transmission Line

Date	SN	Category	Monitoring result		Standard Limit	
			Leq (Day)	Leq (Night)	Day	Night
03-05-2025	AML-01	Mix area	52.87	34.00	60	30
04-05-2025	AML-02	Mix area	55.0	45.64	60	30
05-05-2025	AML-03	Mix area	52.65	43.43	60	30
06-05-2025	AML-04	Mix area	57.34	44.34	60	30
07-05-2025	AML-05	Mix area	56.23	43.23	60	30

Table 3: Ambient Noise Level Monitoring Result for Purbasadpur-Domar Transmission Line

Date	SN	Category	Monitoring result		Standard Limit	
			Leq (Day)	Leq (Night)	Day	Night
21-05-2025	AML-01	Mix area	56.36	53.80	60	30
22-05-2025	AML-02	Mix area	55.64	56.78	60	30
23-05-2025	AML-03	Mix area	54.22	52.80	60	30
24-05-2025	AML-04	Mix area	52.92	54.84	60	30
25-05-2025	AML-05	Mix area	56.60	56.06	60	30

Table 4: Ambient Noise Level Monitoring Result for Niamatpur-Patkhala Transmission Line

Date	SN	Category	Monitoring result		Standard Limit	
			Leq (Day)	Leq (Night)	Day	Night
15-05-2025	AML-01	Mix area	54.67	44.39	60	30
16-05-2025	AML-02	Mix area	57.24	44.13	60	30
17-05-2025	AML-03	Mix area	54.33	39.42	60	30
18-05-2025	AML-04	Mix area	52.03	45.93	60	30
19-05-2025	AML-05	Mix area	55.85	42.06	60	30

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Table 5: Ambient Noise Level Monitoring Result for Domar-Hatibandha Transmission Line

Date	SN	Category	Monitoring result		Standard Limit	
			Leq (Day)	Leq (Night)	Day	Night
27-05-2025	AM-01	Mix area	52.47	56.80	65	50
28-05-2025	AM-02	Mix area	51.88	58.15	65	50
29-05-2025	AM-03	Mix area	52.81	45.88	65	50
30-05-2025	AM-04	Mix area	54.64	45.19	65	50
31-05-2025	AM-05	Mix area	51.53	48.98	65	50

Table 6: Ambient Noise Level Monitoring Result for Gopalganj(N)-Shibchar Transmission Line

Date	SN	Category	Monitoring result		Standard Limit	
			Leq (Day)	Leq (Night)	Day	Night
09-05-2025	AM-01	Mix area	51.54	52.42	65	50
10-05-2025	AM-02	Mix area	52.80	58.8	65	50
11-05-2025	AM-03	Mix area	54.79	45.45	65	50
12-05-2025	AM-04	Mix area	51.93	42.37	65	50
13-05-2025	AM-05	Mix area	55.70	45.90	65	50

Taufiqur Rahn

Taufiqur Rahn
Sr. Executive

Eng. Syed Tameem Mahmood

Eng. Syed Tameem Mahmood
CEO and Chief Environmental Engineer

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Test Report

Reference No.	SW/10471	Test Name	Surface Water Test Report
Company Name	Transit Lighting Ltd.	Sample Type	Surface Water – (34-08)
		Date of Sampling	1. Bagmati-Pragur-Shandaria Transmission Line: 03/05/2025 2. Gopalganj(N)-Shibchar Transmission Line: 09/05/2025 3. Manikpur-Patnabali Transmission Line: 15/05/2025 4. Purbesolepur-Dopur Transmission Line: 21/05/2025 5. Domar-Hatibandha Transmission Line: 27/05/2025
		Date of Reporting	14/07/2025
Sampling Location	Water Bodies adjacent to Towers		

Sl. No	Water Quality Parameters	Unit	Bangladesh Standard for Surface Water (BSR-2023)	Method of Analysis
1	Nitrogen (Ammonia)	mg/L	0.3	APHA 4500-NH ₄
2	Biological Oxygen Demand (BOD)	mg/L	3	APHA- 5210BOD
3	Chemical Oxygen Demand (COD)	mg/L	50	EPA 410.1 Titrimetric
4	Total Calcium (TC)	mg/L	1000	Membrane Filtration Method
5	Dissolved Oxygen (DO)	mg/L	3.5	EPA 900.1 (DO)
6	pH	-	6-9	Electrometric (pH Meter)
7	Total Dissolved Solid (TDS)	mg/L	1000	Multimeter (COM-90)
8	Turbidity	NTU	NYS	APHA-2100B
9	Oil & Grease	mg/L	NYS	EPA 1631A

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Table 1: Surface Water monitoring Results

Sl. No.	Code	PH	BOD (mg/L)	COD (mg/L)	Total Coliform (n/100 ml)	DO (mg/L)	pH	TDS (mg/L)	Turbidity (mg/L)	Oil and Grease (mg/L)
Bagerhat-Propur-Shandaria TL										
01	SW4	8.5	6.4	8.4	77	3.4	7.35	374	0	0.06
Purbasatpur-Domar TL										
02	SW5	8.8	3.2	8.6	85	5.7	8.32	22	0	0.12
Mamulpur-Patkhola TL										
03	SW6	8.3	12.5	27.2	58	3.4	8.12	144	5	0.15
Gopalganj-Shibchar TL										
04	SW7	8.5	3.9	11.2	142	4.5	7.38	156	5	0.06
Domar-Hattbandha TL										
05	SW8	8.22	7.3	13.9	45	7.4	7.13	96	2	0.07

**Abbreviations and Acronyms: NH₃-Ammonia, BOD-Biological Oxygen Demand, COD-Chemical Oxygen Demand, DO-Dissolved Oxygen, TDS-Total Dissolved Solids, TSS-Total Suspended Solids, TC-Total Coliform

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Lab Analyst and Expert

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Test Report

Reference No.	DW 10470	Test Name	Ground Water Test Report
Company Name	Transit Lighting Ltd.	Sample Type	Ground Water – (04-08)
		Date of Sampling	1. Bagerhat-Propur-Shandaria Transmission Line: 03/05/2023 2. Gopalganj/Shibchar Transmission Line: 09/05/2023 3. Mamulpur-Patkhola Transmission Line: 15/05/2023 4. Purbasatpur-Domar Transmission Line: 21/05/2023 5. Domar-Hattbandha Transmission Line: 27/05/2023
Sampling Location	Nearby Ground Water sources from TL Towers	Date of Reporting	14/07/2023

Sl. No.	Water Quality Parameters	Unit	Bangladesh Standard for Ground Water (BSR 288)	Method of Analysis
1	Ammonia (As)	mg/L	0.05	USEPA 200.5, SM 2111 B
2	Chloride	mg/L	250	Titrimetric
3	Coliform (Fecal)	n/100ml	0	Membrane Filtration Method
4	Coliform (Total)	n/100ml	0	Membrane Filtration Method
5	Iron (Fe)	mg/L	0.3-1.0	USEPA 200.5, SM 2111 B
6	Manganese (Mn)	mg/L	0.4	USEPA 200.5, SM 2111 B
7	pH	-	6.5-8.5	Electrometric (pH Meter)
8	Salinity	‰	NTS	Electrometric (Salinity Meter)
9	Turbidity	NTU	5	APHA Method 2130B
10	EC	µS/cm	NTS	Multi Meter
11	Hardness	mg/L	500	Titrimetric
12	Temperature	°C	20-30	Thermometric

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Table 1: Ground Water monitoring Results

Sl No	Code	Parameters Concentration										Hardness mg/L	Temp °C
		Arsenic (As)	Chloride	Cobaltum (Feas)	Cobaltum (Total)	Iron (Fe)	Manganese (Mn)	pH	Salinity	Turbidity	EC		
		mg/L	mg/L	N/100ml	N/100ml	mg/L	mg/L	-	‰	NTU	µS/cm		
Bagerhat-Pingol-Bhandara TL													
01	GBH	0	37.1	0	0	0.32	1.3	7.25	0.5	3	5.8	80	23.2
Purbas Sedgip-Damur TL													
02	GBD	0	42.4	0	0	1.2	2.3	6.23	0	0	30.6	118	20.8
Narailpur- Patnabara TL													
03	GBN	0	39.6	0	0	0.54	0.5	6.32	0	2	62	117	21.3
Gopalganj-Moharbar TL													
04	GBT	0	87.5	0	0	1.55	0.2	7.46	3.2	5	533	187	26.1
Dama-Hatibanda TL													
05	GBD	0	41.9	0	0	0.02	0.2	6.34	0	1	127	87	25.6

*Abbreviations and Acronyms: As-Arsenic, Mn-Manganese, EC-Electrical Conductivity, Fe-Iron, BOD-Biological Oxygen Demand, COD-Chemical Oxygen Demand, DO-Dissolved Oxygen, TDS-Total Dissolved Solids, TC-Total Coliform, FC-Fecal Coliform and TPH-Total Petroleum Hydrocarbon

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Test Report

Reference No.	BT-03114	Test Name	Soil Quality Test (Chemical Properties)
Sample Receiving Date	03-05-2025 (T-50: Bagerhat-Pingol-Bhandara Transmission Line) 09-05-2025 (T-2: Purbasaddpur-Damra Transmission Line) 15-05-2025 (T-30: Narailpur-Patnabara Transmission Line) 21-05-2025 (T-40: Purbasaddpur-Damra Transmission Line) 27-05-2025 (T-40: Dama-Hatibanda Transmission Line)	Sample ID	BQ-ITA-70
Date of Analysis	27/05/2025 to 29/06/2025	Date of Submission	14/07/2025
Client Name	Transit Lighting Ltd.	Sample Type	Soil Sample from site

Methodology

Sl	Soil Quality Parameters	Unit	Bangladesh Standard (BSR23)	Method of Analysis
1	pH	-	No standard limit has been set by national Authority	Saturated Paste
2	Organic Content (Carbon)	%		Combustion Method
3	Lead (Pb)	mg/kg		ICP-AES
4	Chromium (Cr)	mg/kg		ICP-AES
5	Cadmium (Cd)	mg/kg		ICP-AES
6	Copper (Cu)	mg/kg		ICP-AES
7	Soil Texture	-		Visual

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Soil Quality Monitoring Result

Table 1. Soil quality monitoring result for Sagatal-Pogor-Bhandara Transmission Line

Soil Quality Monitoring Result									
S/N	Tower ID	Co-ordinates	pH	Organic content (Carbon)	Lead (pb)	Chromium (Cr)	Cadmium (Cd)	Copper (Cu)	Soil Texture
			-	%	mg/Kg	mg/Kg	mg/Kg	mg/Kg	-
01	T-00	23°19'4.91"N 90°25'7.73"E	6.4	4.2	8.8	12.3	0.20	11.8	Sandy Clay

No standard limit has been set by National Authority

* Sample Collection Date: 03-05-2023

Table 2. Soil quality monitoring result for Gopalganj-Nalinda Transmission Line

Soil Quality Monitoring Result									
S/N	Tower ID	Co-ordinates	pH	Organic content (Carbon)	Lead (pb)	Chromium (Cr)	Cadmium (Cd)	Copper (Cu)	Soil Texture
			-	%	mg/Kg	mg/Kg	mg/Kg	mg/Kg	-
01	T1-2	23°21'16.18"N 90°11'1.90"E	6.3	4.2	7.3	10.2	0.01	9.4	Loamy Clay

No standard limit has been set by National Authority

* Sample Collection Date: 04-05-2023

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Table 3. Soil quality monitoring result for Haratalpur-Patnabati Transmission Line

Soil Quality Monitoring Result									
S/N	Tower ID	Co-ordinates	pH	Organic content (Carbon)	Lead (pb)	Chromium (Cr)	Cadmium (Cd)	Copper (Cu)	Soil Texture
			-	%	mg/Kg	mg/Kg	mg/Kg	mg/Kg	-
01	T-00	25°47'24.11"N 89°41'21.00"E	5.5	3.8	6.2	11.1	0.34	9.2	Loamy Clay

No standard limit has been set by National Authority

* Sample Collection Date: 05-05-2023

Table 4. Soil quality monitoring result for Patharadipor-Dumai Transmission Line

Soil Quality Monitoring Result									
S/N	Tower ID	Co-ordinates	pH	Organic content (Carbon)	Lead (pb)	Chromium (Cr)	Cadmium (Cd)	Copper (Cu)	Soil Texture
			-	%	mg/Kg	mg/Kg	mg/Kg	mg/Kg	-
01	T-00	26°21'37.87"N 89°43'50.00"E	5.4	5.5	6.8	9.2	0.01	13.4	Loamy Clay

No standard limit has been set by National Authority

* Sample Collection Date: 21-05-2023

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Table 3. Soil quality monitoring result for Dama-Haldanvra Transmission Line

Soil Quality Monitoring Result									
S/N	Tower ID	Coordinates	pH	Organic content (Carbon)	Lead (pb)	Chromium (Cr)	Cadmium (Cd)	Copper (Cu)	Soil Texture
			-	%	mg/Kg	mg/Kg	mg/Kg	mg/Kg	-
01	T-401	23°48'31.21"N 88°41'25.45"E	5.6	3.7	5.3	79.2	0.31	8.4	Loamy Clay

No standard limit has been set by National Authority

Sample Collection Date: 27-05-2025

Comments:

1. No Standard has been set yet for Soil Quality Tests.
2. Samples were collected by Site Inspector.
3. Samples were received in sealed condition.


Tazrin Hossain
Lab Analyst and Engineer


Engr. Ayad Tarannu Mahamud
CEO and Chief Environmental Engineer

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Package 5



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Ref: EES/2025/JUN/AAQ

EVERGREEN ENVIRONMENTAL SERVICE LABORATORY

Results of Ambient Air Quality Analysis

Name of Project	Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	Design, Supply, Installation, Testing and Commissioning of 400/230 KV GIS Substation at Kaliganj on turnkey basis (Package-3)
Description of the Sample	Sample was collected from project area
Sample Collector	Collected by Evergreen Technical Team
Sample Date	14.06.2025-15.06.2025
Date of Analysis	16.06.2025-19.06.2025
Reporting Date	21.06.2025

Sl. No.	Sample Locations	Concentration present different parameter in ambient air						
		PM ₁₀	PM _{2.5}	SPM	SO ₂	NO ₂	CO	Pb
1	CAAQ1 In front of Hafiz Sheikh's House	27	53	89	5.2	4.8	0.45	BDL
2	CAAQ2 Beside Kaliganj-Kapasia Rd. located near Nolar Bridge	31	65	101	6.5	6.8	0.53	BDL
3	CAAQ3 In front of Marum Mia's House	33	67	103	6.2	5.9	0.60	BDL
4	CAAQ4 In front of Late Abdul Razzak's House	33	68	109	6.1	6.5	0.51	BDL
Unit		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
Duration		24	24	8	24	24	8	24
Method of Analysis		Nephelometer			Electro-Chemical Sensor			AAS
Bangladesh Standard		85	150	200	80	80	5	0.5

*Standard: Air Pollution Control Rules On 26th July 2022; vide S.R.O. NO. 255-Law/ 2022 and Environment Conservation Rules (ECR) 1997 through its subsequent amendment on 13th July, 2005; vide S.R.O. NO. 220-Law/2020

Note: This ambient air monitoring report was usually accomplished by- portable OCEANUS AQ04-09 & Air-Sampler with Attachment (Single/Double Head)

Note: BDL = Below the detection level



Lab Test Analyzed by	Approved By
Mehedi Hasan Jony Consultant (Environment), Evergreen Environmental Service (EES) B.Sc. in Environmental Science and Resource Management (ESRM), MBSTU MS in Environmental Science, MBSTU 21.06.2025	 MD. NURULAFSAR Director Operation 21.06.2025

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Ref: EES/2025/JUN/NL

EVERGREEN ENVIRONMENTAL SERVICE LABORATORY**Results of Ambient Air Quality Analysis**

Name of Project	Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	Design, Supply, Installation, Testing and Commissioning of 400/230 KV GIS Substation at Kaligang on railway basis (Package-3)
Description of the Sample	Sample was collected from project area
Sample Collector	Collected by Evergreen Technical Team
Sample Date	14-06-2025-15-06-2025
Date of Analysis	18-06-2025-18-06-2025
Reporting Date	21-06-2025

Sampling Location:

Sl. No	Sample Locations	Sampling ID
1	In front of Hefiy Sheikh's House 23.908833 N & 90.549161 E	EAQM-1
2	Bridge Kaligang-Kapasia Rd. located near Noida Bridge 23.903585 N & 90.549122 E	EAQM-2
3	In front of Munim Mia's House 23.905880 N & 90.554100 E	EAQM-3
4	In front of Late Abdul Razzak's House 23.909790 N & 90.552512 E	EAQM-4

Test Results:

Location	Concentration Present (dBA)						Category	
	Day			Night				
	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}	L _{min}		
KANM-1 In front of Hafiz Sheikh's House	48.9	59.8	51.1	38.8	43.9	34.7	Residential	
KANM-2 Beside Kaliganj-Kapasia Rd. located near Noida Bridge	33.21	62.8	32.9	40.12	47.3	33.8	Mixed	
KANM-3 In front of Munim Mia's House	32.8	57.8	33.8	37.8	37.6	33.2	Residential	
KANM-4 In front of Late Abdul Razak's House	50.5	58.3	33.8	38.1	42.9	34.1	Residential	
Bangladesh Standard							Day Time	Night Time
Industrial area							75	70
Commercial							70	65
Mixed area							60	55
Residential area							55	50
Quiet Area							50	45
World Bank / IFC Standard								
Industrial area							70	70
Residential, Institutional, Educational							55	45

Standard: Noise Pollution Control Rules, 2008



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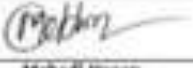
Physical/ Chemical/ Bacteriological Analysis of Water Sample

Name of Project	: Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	: Design, supply, installation, Testing and Commissioning of 400/230 kV GIS Substation at Kaliganj on turnkey basis (Package-5)
Description of sample	: Surface water Sample collection
Sample ID	: KSMQ-01
Location	: Nohr Khal, Kaliganj, Gazipur
Sample Collector	: Collected by Envirocare Technical Team
Analyzed By	: BEETLSL Laboratory
Monitoring Date	: 14 June, 2023
GPS Location	: 23.966451 N; 90.552715 E

LABORATORY TEST RESULTS:

Parameters	Unit	Concentration Present	ECN, 2023 Standard*					
		KSMQ 01	a	b	c	d	e	f
Ammonia (NH ₃)	mg/l	0.25	-	-	-	-	-	-
BOD ₅	mg/l	5	≤2	≤3	≤3	≤6	12	≤12
COD	mg/l	17	10	10	25	50	100	100
DO	mg/l	5.98	≥6	≥5	≥5	≥5	≥1	-
Total Nitrogen	mg/l	≤1.0	-	-	-	-	-	-
Oil & Grease	mg/l	0.21	-	-	-	-	-	-
pH	-	7.1	6.5-8.5	6.5-8.5	6-9	6-9	6.5-8.5	6.5-8.5
TDS	mg/l	55	1000	1000	1000	1000	1000	1000
Total Coliform	CFU/100	13	≤100	≤50	≤5000	≤5000	-	≤50000
TSS	mg/l	3	-	-	-	-	-	-
Turbidity	NTU	0.8	-	-	-	-	-	-

*The Environment Conservation Rules (ECR) 2023, Schedule 2, Standard for inland Surface Water

Lab Test Performed by	Reviewed and checked by	Approved By
		
Mahadi Hasan Executive (Environmental Lab), BEETLSL	Md. Nasim Reza Environmental Monitoring Officer (Executive), BEETLSL	Dr. Fatima Akter Director, BEETLSL
25.06.2023	25.06.2023	25.06.2023



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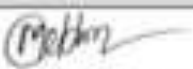
Physical/ Chemical/ Bacteriological Analysis of Water Sample

Name of Project	: Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	: Design, Supply, Installation, Testing and Commissioning of 400/230 KV GIS Substation at Kaliganj on turnkey basis (Package 5)
Description of sample	: Surface water Sample collection
Sample ID	: KSWQ-02
Location	: Nair Khai, Kaliganj, Gozipur
Sample Collector	: Collected by Envirocare Technical Team
Analyzed By	: BEETLSL Laboratory
Monitoring Date	: 14 June, 2023
GPS Location	: 23.965599 N; 90.551005 E

LABORATORY TEST RESULTS:

Parameters	Unit	Concentration Present	ECR, 2023 Standard*					
		KSWQ 02	a	b	c	d	e	f
Ammonia (NH ₃)	mg/l	0.21	-	-	-	-	-	-
BOD ₅	mg/l	6	≤2	≤3	≤3	≤5	12	≤12
COD	mg/l	17	10	10	25	50	100	100
DO	mg/l	6.28	≥6	≥5	≥5	≥5	≥1	-
Total Nitrogen	mg/l	<1.0	-	-	-	-	-	-
Oil & Grease	mg/l	0.30	-	-	-	-	-	-
pH	-	7.4	6.5-8.5	6.5-8.5	6-9	6-9	6.5-8.5	6.5-8.5
TDS	mg/l	58	1000	1000	1000	1000	1000	1000
Total Coliform	CFU/100	12	≤100	≤50	≤5000	≤5000	-	≤50000
TSS	mg/l	5	-	-	-	-	-	-
Turbidity	NTU	8.9	-	-	-	-	-	-

*The Environment Conservation Rules (ECR) 2023, Schedule 2, Standard for Inland Surface Water

Lab Test Performed by	Reviewed and checked by	Approved By
		
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25.06.2023	25.06.2023	25.06.2023



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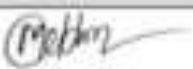
Physical/ Chemical/ Bacteriological Analysis of Water Sample

Name of Project	: Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	: Design, Supply, Installation, Testing and Commissioning of 400/230 KV GIS Substation at Kaliganj on turnkey basis (Package 5)
Description of sample	: Surface water Sample collection
Sample ID	: KSWQ-03
Location	: Nair Khai, Kaliganj, Gozipur
Sample Collector	: Collected by Envirocare Technical Team
Analyzed By	: BEETLSL Laboratory
Monitoring Date	: 15 June, 2023
GPS Location	: 23.966287 N; 90.349402 E

LABORATORY TEST RESULTS:

Parameters	Unit	Concentration Present	ECR, 2023 Standard*					
		KSWQ 03	a	b	c	d	e	f
Ammonia (NH ₃)	mg/l	0.25	-	-	-	-	-	-
BOD ₅	mg/l	6.1	≤2	≤3	≤3	≤5	12	≤12
COD	mg/l	19	10	10	25	50	100	100
DO	mg/l	5.5	≥6	≥5	≥5	≥5	≥1	-
Total Nitrogen	mg/l	<1.0	-	-	-	-	-	-
Oil & Grease	mg/l	0.28	-	-	-	-	-	-
pH	-	7.4	6.5-8.5	6.5-8.5	6-9	6-9	6.5-8.5	6.5-8.5
TDS	mg/l	49	1000	1000	1000	1000	1000	1000
Total Coliform	CFU/100	14	≤100	≤50	≤5000	≤5000	-	≤50000
TSS	mg/l	7	-	-	-	-	-	-
Turbidity	NTU	10.1	-	-	-	-	-	-

*The Environment Conservation Rules (ECR) 2023, Schedule 2, Standard for Inland Surface Water

Lab Test Performed by	Reviewed and checked by	Approved By
		
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25.06.2023	25.06.2023	25.06.2023



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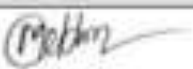
Physical/ Chemical/ Bacteriological Analysis of Water Sample

Name of Project	: Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	: Design, Supply, Installation, Testing and Commissioning of 400/230 KV GIS Substation at Kaliganj on turnkey basis (Package 5)
Description of sample	: Surface water Sample collection
Sample ID	: KSWQ-04
Location	: Nsir Khat, Kaliganj, Gazipur
Sample Collector	: Collected by Envirocare Technical Team
Analyzed By	: BEETLSL Laboratory
Monitoring Date	: 15 June, 2025
GPS Location	: 23.966470 N; 90.348220 E

LABORATORY TEST RESULTS:

Parameters	Unit	Concentration Present	ECR, 2023 Standard*					
		KSWQ 04	a	b	c	d	e	f
Ammonia (NH ₃)	mg/l	0.28	-	-	-	-	-	-
BOD ₅	mg/l	5.6	≤2	≤3	≤3	≤5	12	≤12
COD	mg/l	21	10	10	25	50	100	100
DO	mg/l	5.3	≥6	≥5	≥5	≥5	≥1	-
Total Nitrogen	mg/l	<1.0	-	-	-	-	-	-
Oil & Grease	mg/l	0.33	-	-	-	-	-	-
pH	-	7.5	6.5-8.5	6.5-8.5	6-9	6-9	6.5-8.5	6.5-8.5
TDS	mg/l	41	1000	1000	1000	1000	1000	1000
Total Coliform	CFU/100	14	≤100	≤50	≤5000	≤5000	-	≤50000
TSS	mg/l	4	-	-	-	-	-	-
Turbidity	NTU	9.8	-	-	-	-	-	-

*The Environment Conservation Rules (ECR) 2023, Schedule 2, Standard for inland Surface Water

Lab Test Performed by	Reviewed and checked by	Approved By
		
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25.06.2025	25.06.2025	25.06.2025

Annexure 4

Test Results of Ground Water Quality Analysis

Package : 5



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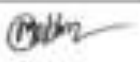
Physical/Chemical/Bacteriological Analysis of Water Sample

Name of Project	:	Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	:	Design, Supply, Installation, Testing and Commissioning of 400/230 KV GIS Substation at Kaliganj on turnkey basis (Package-5)
Description of sample	:	Groundwater Sample Collection
Sample ID	:	KGRWQ-01
Location	:	Hafiz Sheikh's House, Kaliganj, Gazipur
Sample Collector	:	Collected by Environment Technical Team
Analyzed By	:	BEETLS Laboratory
Monitoring Date	:	14 June, 2025
GPS Location	:	23.96812N; 90.549588E

LABORATORY TEST RESULTS

Parameters	Unit	Method	Concentration Present	ECR 2023 Standard*
			KGRWQ-01	
Arsenic	mg/l	AAS	0.003	0.05
Cl ⁻	mg/l	Titrimetric	29	250*
EC	µS/cm	Multimeter	345	-
Fe	mg/l	AAS	1.3	0.3-1
Mn	mg/l	AAS	0.03	0.4
pH	-	pH Meter	7.4	6.5-8.5
Turbidity	NTU	Turbidity Meter	0.06	5
FC	cfu/100ml	Membrane Filtration Method For Each	0.00	0.00
TC	cfu/100ml	Membrane Filtration Method For Each	0.00	0.00

*The Environment Conservation Rules (ECR) 2023, Schedule 2(B)
B.B. AAS - Atomic Absorption Spectrophotometer

Lab Test Performed by	Reviewed and Checked by	Approved By
		
Mehadi Hossain Executive (Environmental Lab), BEETLS 25.03.2025	Md. Nasim Reza Environmental Monitoring Officer (Executive), BEETLS 25.03.2025	Dr. Fatima Akter Director BEETLS 25.06.2025

Design, Supply, Installation, Testing and Commissioning of 400/230 KV GIS Substation at Kaliganj on Turnkey basis (Package-5)

Quarterly Environment Monitoring Report


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Physical/Chemical/Bacteriological Analysis of Water Sample

Name of Project	:	Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	:	Design, Supply, Installation, Testing and Commissioning of 400/230 KV GIS Substation at Kaligari on turnkey basis (Package-5)
Description of sample	:	Groundwater Sample Collection
Sample ID	:	KQWQ-02
Location	:	Dessin Kaligari Kaptala Rd. Location Near Nole Bridge, Kaligari, Gachpur
Sample Collector	:	Collected by Envisure Technical Team
Analysed By	:	BEETLS Laboratory
Monitoring Date	:	14 June 2025
GPS Location	:	23.903394 N; 90.548518 E

LABORATORY TEST RESULTS :

Parameters	Unit	Method	Concentration Present	ECR 2023
			KQWQ-02	Standard*
Arsenic	mg/l	AAS	0.001	0.05
Cl-	mg/l	Titrimetric	28	250*
EC	µS/cm	Multimeter	272	-
Fe	mg/l	AAS	1.1	0.3-1
Mn	mg/l	AAS	0.04	0.4
pH	-	pH Meter	7.6	6.5-8.5
Turbidity	NTU	Turbidity Meter	0.04	5
FC	cfu/100ml	Membrane Filtration Method For Each	0.00	0.00
TC	cfu/100ml	Membrane Filtration Method For Each	0.00	0.00

 *The Environment Conservation Rules (ECR), 2023, Schedule 2(B)
N.B. AAS - Atomic Absorption Spectrophotometer

Lab Test Performed by	Reviewed and Checked by	Approved By
		
Mahadi Hasan Executive (Environmental Lab), BEETLS, 25.06.2025	Md. Masim Reza Environmental Monitoring Officer (Executive), BEETLS, 25.06.2025	Dr. Fatima Akter Director, BEETLS, 25.06.2025

Design, Supply, Installation, Testing and Commissioning of 400/230 KV GIS Substation at Kaligari on turnkey basis (Package-5)

Quarterly Environment Monitoring Report


**BANGLADESH ENVIRONMENTAL ENGINEERING
TRAINING & LAB SERVICES LTD.**

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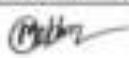
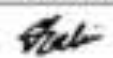
Physical/Chemical/Bacteriological Analysis of Water Sample

Name of Project	:	Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	:	Design, Supply, Installation, Testing and Commissioning of 400/230 KV GIS Substation at Kaliganj on turnkey basis (Package-5)
Description of sample	:	Groundwater Sample Collection
Sample ID	:	KQWQ-03
Location	:	Mamun Ma's House, Kaliganj, Gazipur.
Sample Collector	:	Collected by Environment Technical Team
Analysed By	:	BEETLS Laboratory
Monitoring Date	:	19 June 2023
GPS Location	:	23.905455N, 90.554317E

LABORATORY TEST RESULTS :

Parameters	Unit	Method	Concentration Present KQWQ-03	ECR 2023 Standard*
Arsenic	mg/l	AAS	0.03	0.05
Cl-	mg/l	Titrimetric	28	250*
EC	µS/cm	Multimeter	255	-
Fe	mg/l	AAS	1.0	0.3-1
Mn	mg/l	AAS	0.03	0.4
pH	-	pH Meter	7.3	6.5-8.5
Turbidity	NTU	Turbidity Meter	0.05	5
FC	cfu/100ml	Membrane Filtration Method For Each	0.00	0.00
TC	cfu/100ml	Membrane Filtration Method For Each	0.00	0.00

*The Environment Conservation Rules (ECR) 2023, Schedule 2(B)
N.B. AAS - Atomic Absorption Spectrophotometer.

Lab Test Performed by	Reviewed and Checked by	Approved By
		
Mahadi Hasan Executive (Environmental Lab), BEETLS 25.06.2023	Md. Nasim Reza Environmental Monitoring Officer (Executive), BEETLS 25.06.2023	Dr. Farima Akter Director, BEETLS 25.06.2023

Design, Supply, Installation, Testing and Commissioning of 400/230 KV GIS Substation at Kaliganj on turnkey basis (Package-5)

Quarterly Environment Monitoring Report


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Physical/Chemical/Bacteriological Analysis of Water Sample

Name of Project	:	Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	:	Design, Supply, Installation, Testing and Commissioning of 400/230 KV GIS Substation at Kaliganj on turnkey basis (Package-5)
Description of sample	:	Groundwater Sample Collection
Sample ID	:	RIJWD-04
Location	:	Late Akbar Rasool's House, Kaliganj, Gazipur
Sample Collector	:	Collected by Environment Technical Team
Analysed By	:	BENTLSL Laboratory
Monitoring Date	:	10 June, 2025
GPS Location	:	23.580881 N, 90.502109 E

LABORATORY TEST RESULTS :

Parameters	Unit	Method	Concentration Present	ECR 2013 Standard*
			KQWD-04	
Arsenic	mg/l	AAS	0.002	0.05
Cl ⁻	mg/l	Titratio	26	250*
EC	µS/cm	Multi-meter	368	-
Fe	mg/l	AAS	1.2	0.3-1
Mn	mg/l	AAS	0.03	0.4
pH	-	pH Meter	7.7	6.5-8.5
Turbidity	NTU	Turbidity Meter	0.06	0
FC	cfa/100ml	Membrane Filtration Method For Each	0.00	0.00
TC	cfa/100ml	Membrane Filtration Method For Each	0.00	0.00

*The Environment Conservation Rules (ECR) 2013, Schedule 3(B)
N.B. AAS- Atomic Absorption Spectrophotometer

Lab Test Performed by	Reviewed and Checked by	Approved By
		
Mahadi Hasan Executive (Environmental Lab), BENTLSL 25.06.2025	Md. Hasim Reza Environmental Monitoring Officer (Executive), BENTLSL 25.06.2025	Dr. Fatima Akter Director, BENTLSL 25.06.2025

Design, Supply, Installation, Testing and Commissioning of 400/230 KV GIS Substation at Kaliganj on turnkey basis (Package-5)



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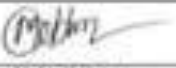
Physical/ Chemical/ Bacteriological Analysis of Soil Sample

Name of Project	: Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	: Design, Supply, Installation, Testing and Commissioning of 400/230 KV GIS Substation at Kaliguri on turnkey basis (Package-5)
Description of sample	: Soil Sample collection
Sample ID	: SQ-01
Location	: In front of Hafej Sheikh's House
Sample Collector	: Collected by Envirocare Technical Team
Analyzed By	: BEETLSL Laboratory
Monitoring Date	: 14 June, 2025
GPS Location	: 23.605948N; 90.423381E

LABORATORY TEST RESULTS:

Sl. No.	Parameters	Unit	Concentration Level	* Dutch Standard
			KSQ-1	
1.	Cadmium (Cd)	PPM	0.53	0.8
2.	Chromium (Cr)	PPM	25.89	100
3.	Copper (Cu)	PPM	3.21	36
4.	Lead (Pb)	PPM	5.97	85
5.	Organic Content	%	10.94	-
6.	pH	-	6.3	-
7.	Texture	mm	0.022	-

N.B. NYS Not Yet Set

Lab Test Performed by	Reviewed and checked by	Approved By
		
Mahadi Hasan Executive (Environmental Lab), BEETLSL	Md. Nasim Reza Environmental Monitoring Officer (Executive), BEETLSL	Dr. Fatima Akter Director, BEETLSL
25.06.2025	25.06.2025	25.06.2025



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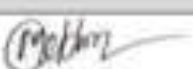
Physical/ Chemical/ Bacteriological Analysis of Soil Sample

Name of Project	: Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	: Design, Supply, Installation, Testing and Commissioning of 400/230 KV GIS Substation at Kaliganj on turnkey basis (Package-5)
Description of sample	: Soil Sample collection
Sample ID	: KSQ 02
Location	: Beside Noir Bridge, Boktarpur, Kaliganj, Gazipur
Sample Collector	: Collected by Envirocare Technical Team
Analyzed By	: BEETLSL Laboratory
Monitoring Date	: 15 June, 2025
GPS Location	: 23.966955 N; 90.549420 E

LABORATORY TEST RESULTS:

Sl. No.	Parameters	Unit	Concentration Level	* Dutch Standard
			KSQ-2	
1.	Cadmium (Cd)	PPM	0.88	0.8
2.	Chromium (Cr)	PPM	43.25	100
3.	Copper (Cu)	PPM	3.66	36
4.	Lead (Pb)	PPM	9.38	85
5.	Organic Content	%	6.25	-
6.	pH	-	6.6	-
7.	Texture	mm	0.052	-

N.B: The size of sand particles ranges between 2.0 and 0.05 mm; silt, 0.05 mm and 0.002 mm; and clay, less than 0.002 mm.

Lab Test Performed by	Reviewed and checked by	Approved By
		
Mahadi Hasan Executive (Environmental Lab), BEETLSL	Md. Nasim Reza Environmental Monitoring Officer (Executive), BEETLSL	Dr. Fatima Akter Director, BEETLSL
25.06.2025	25.06.2025	25.06.2025



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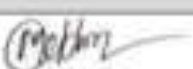
Physical/ Chemical/ Bacteriological Analysis of Soil Sample

Name of Project	: Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	: Design, Supply, Installation, Testing and Commissioning of 400/230 KV GIS Substation at Kaliganj on turnkey basis (Package-5)
Description of sample	: Soil Sample collection
Sample ID	: KSQ-03
Location	: Beside the bridge of Moham fukdi Rd
Sample Collector	: Collected by Envirocare Technical Team
Analyzed By	: BEETLSL Laboratory
Monitoring Date	: 15 June, 2025
GPS Location	: 23.967744 N; 90.553671 E

LABORATORY TEST RESULTS:

Sl. No.	Parameters	Unit	Concentration Level	* Dutch Standard
			KSQ-3	
1.	Cadmium (Cd)	PPM	0.59	0.8
2.	Chromium (Cr)	PPM	28.45	100
3.	Copper (Cu)	PPM	3.12	36
4.	Lead (Pb)	PPM	6.21	85
5.	Organic Content	%	11.95	-
6.	pH	-	6.5	-
7.	Texture	mm	0.022	-

N.B: The size of sand particles ranges between 2.0 and 0.05 mm; silt, 0.05 mm and 0.002 mm; and clay, less than 0.002 mm.

Lab Test Performed by	Reviewed and checked by	Approved By
		
Mahadi Hasan Executive (Environmental Lab), BEETLSL	Md. Nasim Reza Environmental Monitoring Officer (Executive), BEETLSL	Dr. Fatima Akter Director, BEETLSL
25.06.2025	25.06.2025	25.06.2025



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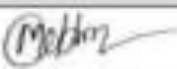
Physical/ Chemical/ Bacteriological Analysis of Soil Sample

Name of Project	: Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	: Design, Supply, Installation, Testing and Commissioning of 400/230 KV GIS Substation at Kaliganj on turnkey basis (Package-5)
Description of sample	: Soil Sample collection
Sample ID	: KSQ-04
Location	: Beside Late Abdul Razzak's House, Boktarpur, Kaliganj, Gazipur
Sample Collector	: Collected by Envirocare Technical Team
Analyzed By	: BEETLSL Laboratory
Monitoring Date	: 15 June, 2025
GPS Location	: 23.969622 N, 90.552497 E

LABORATORY TEST RESULTS:

Sl. No.	Parameters	Unit	Concentration Level	* Dutch Standard
			KSQ-4	
1.	Cadmium (Cd)	PPM	0.74	0.8
2.	Chromium (Cr)	PPM	51.55	100
3.	Copper (Cu)	PPM	3.17	36
4.	Lead (Pb)	PPM	7.25	85
5.	Organic Content	%	11.22	-
6.	pH	-	6.5	-
7.	Texture	mm	0.031	-

N.B: The size of sand particles ranges between 2.0 and 0.05 mm; silt, 0.05 mm and 0.002 mm; and clay, less than 0.002 mm.

Lab Test Performed by	Reviewed and checked by	Approved By
		
Mahadi Hasan Executive (Environmental Lab), BEETLSL	Md. Nasim Reza Environmental Monitoring Officer (Executive), BEETLSL	Dr. Fatima Akter Director, BEETLSL
25.06.2025	25.06.2025	25.06.2025

Package 6



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Results of Ambient Air Quality Analysis

Name of the Project	Dhaka and Western Zone Transmission Grid Expansion Project
Name of the Package	Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of the Sample	Sample was collected from project area
Sample Collector	Collected by Evergreen Technical Team
Sample Date	18.05.2025
Date of Analysis	20.05.2025-25.05.2025
Reporting Date	26.05.2025

Sl	Sample Location	Concentration present different parameter in ambient air						
		PM10	PM2.5	SPM	SO ₂	NO ₂	CO	PH
1	AAQ1 In front of Dulal Mia's house	24	54	99	3.4	4.1	0.45	BDL
Unit		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
Duration		24	24	0	24	24	0	24
Method of Analysis		Light scattering technique			High precision Electrochemical sensor			ADR
Bangladesh Standard		05	150	200	00	00	5	0.3

*Standard: Air pollution Control Rules On 26th July 2022; Vide S.R.O. NO. 230-Law/ 2022 and Environment Conservation Rules (ECR) 1997 through its subsequent amendment on 19th July, 2023; vide S.R.O. NO. 230-Law/2023

Note: This ambient air monitoring report was mainly accomplished by portable OCEANUS AQM-09 & Air Sampler with Attachment (Single/Double Head)

Note: BDL = Below the detection level

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Lab Test Analyzed by	Approved By
Mehedi Hasan Jony Consultant (Environment), Evergreen Environmental Service (EES) B.Sc. in Environmental Science and Resource Management (ESRM), MBSTU MSc in Environmental Science, MBSTU 26.05.2025	 MD. NURUL AFSHAN Director Operation 26.05.2025

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Ref: EES/2025/MAY/AAQ

EVERGREEN ENVIRONMENTAL SERVICE LABORATORY**Results of Ambient Air Quality Analysis**

Name of the Project	Dhaka and Western Zone Transmission Grid Expansion Project
Name of the Package	: Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of the Sample	: Sample was collected from project area
Sample Collector	: Collected by Evergreen Technical Team
Sample Date	: 18.05.2025
Date of Analysis	: 20.05.2025-25.05.2025
Reporting Date	: 26.05.2025

SN	Sample Locations	Concentration present different parameter in ambient air						
		PM ₁₀	PM _{2.5}	SPN	SO ₂	NO ₂	CO	Pb
1	AAQ2 In front of Dipak Chakraborty's Shop	11	59	105	5.8	6.3	0.47	BDL
Unit		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
Duration		24	24	8	24	24	8	24
Method of Analysis		Light scattering technique			High precision Electrochemical sensor			AA3
Bangladesh Standard		65	110	200	80	80	5	0.5

*Standard: Air pollution Control Rules On 29th July 2022; vide S.R.O. NO. 255-Law/ 2022 and Environment Conservation Rules (ECR) 1997 through its subsequent amendment on 18th July, 2003; vide S.R.O. NO. 228-Law/2005

Note: This ambient air monitoring report was usually accomplished by: portable OCEANUS AQM-09 & Air Sampler with Attachment (Single/Double Head)

Note: BDL = Below the detection level

Evergreen
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Lab Test Analyzed by	Approved By
Mehedi Hasan Jony Consultant (Environment), Evergreen Environmental Service (EES) B.Sc. in Environmental Science and Resource Management (EDRM), MBSTU MT in Environmental Science, MBSTU 26.05.2025	 MD. NURULAFSHAN Director Operation 26.05.2025

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Ref: EES/2025/MAY/AAQ

EVERGREEN ENVIRONMENTAL SERVICE LABORATORY

Results of Ambient Air Quality Analysis

Name of the Project	Dhaka and Western Zone Transmission Grid Expansion Project
Name of the Package	Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of the Sample	Sample was collected from project area
Sample Collector	Collected by Evergreen Technical Team
Sample Date	19.05.2025
Date of Analysis	20.05.2025-25.05.2025
Reporting Date	26.05.2025

SN	Sample Locations	Concentration present different parameter in ambient air						
		PM ₁₀	PM _{2.5}	SPM	SO ₂	NO ₂	CO	Pb
1	AAQ3 In front of Boro Kaa Street Shree Sarbojaya Durga Mandir	15	01	102	0.1	0.7	0.49	BDL
Unit		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
Duration		24	24	8	24	24	8	24
Method of Analysis		Light scattering technique			High precision Electrochemical sensor			AAS
Bangladesh Standard		85	110	300	80	80	5	0.3

*Standard: Air pollution Control Rules On 30th July 2022; Vide S.R.O. NO. 203-Law/ 2022 and Environment Conservation Rules (ECR) 1987 through its subsequent amendment on 19th July 2005; vide S.R.O. NO. 220 Law/2005

Note: This ambient air monitoring report was heavily accomplished by portable OCEANUS AQM-09 & Air Sampler with Attainment (Single/Double Head)

Note: BDL = Below the detection level



Lab Test Analyzed by	Approved By
Mehedi Hasan Jony Consultant (Environment), Evergreen Environmental Service (EES) B.Sc. in Environmental Science and Resource Management (ESRM), MBSTU MSc in Environmental Science, MBSTU 26.05.2025	 MD. NURULAFSAR Director Operation 26.05.2025

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Ref: EES/2025/MAY/AAQ

EVERGREEN ENVIRONMENTAL SERVICE LABORATORY

Results of Ambient Air Quality Analysis

Name of the Project	Dhaka and Western Zone Transmission Grid Expansion Project
Name of the Package	Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of the Sample	Sample was collected from project area
Sample Collector	Collected by Evergreen Technical Team
Sample Date	19.05.2025
Date of Analysis	20.05.2025-25.05.2025
Reporting Date	26.05.2025

SN	Sample Location	Concentration present different parameter in ambient air						
		PM ₁₀	PM _{2.5}	SPM	SO ₂	NO ₂	CO	Pb
1	AAQ4 In front of Mohanur Karim's house	12	55	109	1.6	8.3	6.44	BGL
Unit		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³
Duration		24	24	8	24	24	8	24
Method of Analysis		Light scattering technique			High precision Electrochemical sensor			AAS
Bangladesh Standard		85	150	200	80	80	5	0.5

*Standard: Air pollution Control Rules On 20th July 2022; Vide S.R.O. NO. 255-Law/ 2022 and Environment Conservation Rules (ECR) 1987 through its subsequent amendment on 19th July, 2005; vide S.R.O. NO. 220-Law/2005

Note: This ambient air monitoring report was usually accomplished by: portable OCEANUS AQM-09 & Air Sampler with Attainment (Single/Double Head)

Note: BGL = Below the detection level

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Environmental Service



Lab Test Analyzed by	Approved By
Mehedi Hasan Jony Consultant (Environment), Evergreen Environmental Service (EES) B.Sc. in Environmental Science and Resource Management (ESRM), MScTU MSc in Environmental Science, MScTU 26.05.2025	 MD. NURULAFZAR Director Operation 26.05.2025

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Ref: EES/2025/MAY/ANLM

Test Results of Noise Level Analysis

Name of the Project	Dhaka and Western Zone Transmission Grid Expansion Project
Name of the Package	Design, Supply, Installation, Testing and Commissioning of 400/230/132 kV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of the Sample	Sample was collected from project area
Sample Collector	Collected by Evergreen Technical Team
Sample Date	18.05.2025
Date of Analysis	20.05.2025-25.05.2025
Reporting Date	26.05.2025

Sampling Location:

Sl. No	Sample Location	Sampling ID
1	In front of Dulal Mia's house 23.864745 N & 90.475689 E	ANLM-1

Test Results:

Location	Concentration Present (dBA)						Category
	Day			Night			
	Leq	Lmax	Lmin	Leq	Lmax	Lmin	
ANLM-1 In front of Dulal Mia's house	52.74	65.8	40.6	45.19	55.8	35.9	Mixed
Bangladesh Standard							Day Time
Industrial area							75
Commercial							70
Mixed area							60
Residential area							55
Silent Area							50
World Bank / IFC Standard							Night Time
Industrial area							70
Residential; Institutional; Educational							55

Standard: Noise Pollution Control Rules, 2008



Lab Test Analyzed by	Approved By
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Ref: EES/2025/MAY/ANLM

Test Results of Noise Level Analysis

Name of the Project	Dhaka and Western Zone Transmission Grid Expansion Project
Name of the Package	Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of the Sample	Sample was collected from project area
Sample Collector	Collected by Evergreen Technical Team
Sample Date	18.05.2025
Date of Analysis	20.05.2025-25.05.2025
Reporting Date	26.05.2025

Sampling Location:

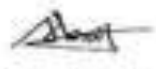
Sl. No	Sample Location	Sampling ID
1	In front of Dipak Chakrabarty's Shop 23.865882 N & 90.475720 E	ANLM-2

Test Results:

Location	Concentration Present (dBA)						Category	
	Day			Night				
	Leq	L _{max}	L _{min}	Leq	L _{max}	L _{min}		
ANLM-2 In front of Dipak Chakrabarty's Shop	54.17	66.2	41.6	45.81	57.2	36.5	Mixed	
Bangladesh Standard							Day Time	Night Time
Industrial area							75	70
Commercial							70	60
Mixed area							60	50
Residential area							55	45
Silent Area							50	40
World Bank / IFC Standard								
Industrial area							70	70
Residential, Institutional, Educational							55	45

Standard: Noise Pollution Control Rules, 2006



Lab Test Analyzed by	Approved By
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Ref: EES/2025/MAY/ANLM

Test Results of Noise Level Analysis

Name of the Project	Dhaka and Western Zone Transmission Grid Expansion Project
Name of the Package	: Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of the Sample	: Sample was collected from project area
Sample Collector	: Collected by Evergreen Technical Team
Sample Date	: 19.05.2025
Date of Analysis	: 20.05.2025-25.05.2025
Reporting Date	: 26.05.2025

Sampling Location:

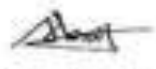
Sl. No	Sample Location	Sampling ID
1	In front of Badai Mia's house 23.861849 N & 90.476507 E	ANLM-3

Test Results:

Location	Concentration Present (dBA)						Category	
	Day			Night				
	Leq	L _{max}	L _{min}	Leq	L _{max}	L _{min}		
ANLM-3 In front of Badai Mia's house	48.37	62.6	40.2	39.08	54.9	37.3	Residential	
Bangladesh Standard							Day Time	Night Time
Industrial area							75	70
Commercial							70	60
Mixed area							60	50
Residential area							55	45
Silent Area							50	40
World Bank / IFC Standard								
Industrial area							70	70
Residential- Institutional, Educational							55	45

Standard: Noise Pollution Control Rules, 2006



Lab Test Analyzed by	Approved By
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Ref: EES/2025/MAY/ANLM

Test Results of Noise Level Analysis

Name of the Project	Dhaka and Western Zone Transmission Grid Expansion Project
Name of the Package	: Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of the Sample	: Sample was collected from project area
Sample Collector	: Collected by Evergreen Technical Team
Sample Date	: 19.05.2025
Date of Analysis	: 20.05.2025-25.05.2025
Reporting Date	: 26.05.2025

Sampling Location:

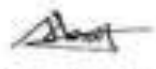
Sl. No	Sample Location	Sampling ID
1	In front of Mohadev Karmakar's House 23.067743 N & 90.470149 E	ANLM-4

Test Results:

Location	Concentration Present (dBA)						Category	
	Day			Night				
	Leq	L _{max}	L _{min}	Leq	L _{max}	L _{min}		
ANLM-4 In front of Mohadev Karmakar's House	46.92	59.2	38.5	37.13	54.6	35.8	Residential	
Bangladesh Standard							Day Time	Night Time
Industrial area							75	70
Commercial							70	60
Mixed area							60	50
Residential area							55	45
Silent Area							50	40
World Bank / IFC Standard								
Industrial area							70	70
Residential- Institutional, Educational							55	45

Standard: Noise Pollution Control Rules, 2006



Lab Test Analyzed by	Approved By
Mehedi Hasan Jony Consultant (Environment), Evergreen Environmental Service (EES) B.Sc. in Environmental Science and Resource Management (ESRM), MBSTU MS in Environmental Science, MBSTU 26.05.2025	 MD. NURULAFZAR Director Operation 26.05.2025

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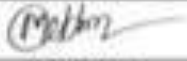
Physical/ Chemical/ Bacteriological Analysis of Water Sample

Name of the Project	: Dhaka and Western Zone Transmission Grid Expansion Project
Name of the Package	: Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of sample	: Surface water sample collection
Sample ID	: SWQ-01
Location	: Khal Beside Sufal Ma's Shop, Purbachal, Gazipur
Sample Collector	: Collected by Evergreen Technical Team
Analysed By	: BEETLSL Laboratory
Monitoring Date	: 19 May, 2025
GPS Location	: 23.854318 N, 90.475925 E

LABORATORY TEST RESULTS:

Parameters	Unit	Concentration Present	ECR, 2023 Standard*					
		SMQ 01	a	b	c	d	e	f
Ammonia (NH ₃)	mg/l	0.28	-	-	-	-	-	-
BOD ₅	mg/l	9	≤2	≤3	≤3	≤6	12	≤12
COD	mg/l	23	10	18	25	30	100	100
DO	mg/l	5.82	≥6	≥5	≥5	≥5	≥1	-
Total Nitrogen	mg/l	≤1.8	-	-	-	-	-	-
Oil & Grease	mg/l	0.51	-	-	-	-	-	-
pH	-	7.2	6.5-8.5	6.5-8.5	6-9	6-9	6.5-8.5	6.5-8.5
TDS	mg/l	74	1000	1000	1000	1000	1000	1000
Total Coliform	CFU/100	24	≤100	≤50	≤5000	≤5000	-	≤50000
TSS	mg/l	8	-	-	-	-	-	-
Turbidity	NTU	15.8	-	-	-	-	-	-

*The Environment Conservation Rules (ECR) 2023, Schedule 2, Standard for Inland Surface Water

Lab Test Performed by	Reviewed and checked by	Approved By
 Mahabub Hasan Executive (Environmental Lab), BEETLSL	 Md. Nasim Reza Environmental Monitoring Officer (Executive), BEETLSL	 Dr. Farima Akter Director, BEETLSL
26.05.2025	26.05.2025	26.05.2025



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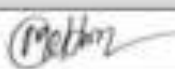
Physical/ Chemical/ Bacteriological Analysis of Water Sample

Name of the Project	: Dhaka and Western Zone Transmission Grid Expansion Project
Name of the Package	: Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of sample	: Surface water Sample collection
Sample ID	: SWQ-02
Location	: Tongi Khal, Purbachal, Gazipur
Sample Collector	: Collected by Evergreen Technical Team
Analyzed By	: BEETLSL Laboratory
Monitoring Date	: 19 May, 2025
GPS Location	: 23.863434 N, 90.474864 E

LABORATORY TEST RESULTS:

Parameters	Unit	Concentration Present	ECR, 2023 Standard*					
		SWQ 02	a	b	c	d	e	f
Ammonia (NH ₃)	mg/l	0.35	-	-	-	-	-	-
BOD ₅	mg/l	11	≤2	≤3	≤3	≤6	12	≤12
COD	mg/l	36	10	10	25	50	100	100
DO	mg/l	4.82	≥6	≥5	≥5	≥5	≥1	-
Total Nitrogen	mg/l	≤1.0	-	-	-	-	-	-
Oil & Grease	mg/l	0.53	-	-	-	-	-	-
pH	-	6.9	6.5-8.5	6.5-8.5	6-9	6-9	6.5-8.5	6.5-8.5
TDS	mg/l	77	1000	1000	1000	1000	1000	1000
Total Coliform	CFU/100	28	≤100	≤50	≤5000	≤5000	-	≤50000
TSS	mg/l	5	-	-	-	-	-	-
Turbidity	NTU	16.7	-	-	-	-	-	-

*The Environment Conservation Rules (ECR) 2023, Schedule 2, Standard for Inland Surface Water

Lab Test Performed by	Reviewed and checked by	Approved by
		
Mahadi Hasan Executive (Environmental Lab), BEETLSL	Md. Nasim Raza Environmental Monitoring Officer (Executive), BEETLSL	Dr. Fatima Akter Director, BEETLSL
26.05.2025	26.05.2025	26.05.2025



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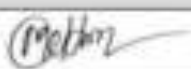
Physical/ Chemical/ Bacteriological Analysis of Water Sample

Name of the Project	: Dhaka and Western Zone Transmission Grid Expansion Project
Name of the Package	: Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of sample	: Surface water Sample collection
Sample ID	: SWQ-03
Location	: Tongi Khal, Purbachal, Gazipur
Sample Collector	: Collected by Evergreen Technical Team
Analyzed By	: BEETLSL Laboratory
Monitoring Date	: 19 May, 2025
GPS Location	: 23.862593 N; 90.476197 E

LABORATORY TEST RESULTS:

Parameters	Unit	Concentration Present	ECR, 2023 Standard*					
		SWQ-03	a	b	c	d	e	f
Ammonia (NH ₃)	mg/l	0.29	-	-	-	-	-	-
BOD ₅	mg/l	12	≤2	≤3	≤3	≤6	12	≤12
COD	mg/l	34	10	10	25	50	100	100
DO	mg/l	4.97	≥6	≥5	≥5	≥5	≥1	-
Total Nitrogen	mg/l	≤1.0	-	-	-	-	-	-
Oil & Grease	mg/l	0.49	-	-	-	-	-	-
pH	-	7.1	6.5-8.5	6.5-8.5	6-9	6-9	6.5-8.5	6.5-8.5
TDS	mg/l	67	1000	1000	1000	1000	1000	1000
Total Coliform	CFU/100	21	≤100	≤50	≤5000	≤5000	-	≤50000
TSS	mg/l	6	-	-	-	-	-	-
Turbidity	NTU	18.1	-	-	-	-	-	-

*The Environment Conservation Rules (ECR) 2023, Schedule 2, Standard for Inland Surface Water

Lab Test Performed by	Reviewed and checked by	Approved by
		
Mahadi Hasan Executive (Environmental Lab), BEETLSL	Md. Nasim Raza Environmental Monitoring Officer (Executive), BEETLSL	Dr. Fatima Akter Director, BEETLSL
26.05.2025	26.05.2025	26.05.2025



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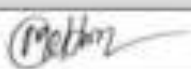
Physical/ Chemical/ Bacteriological Analysis of Water Sample

Name of the Project	: Dhaka and Western Zone Transmission Grid Expansion Project
Name of the Package	: Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of sample	: Surface water Sample collection
Sample ID	: SWQ-03
Location	: Tongi Khal, Purbachal, Gazipur
Sample Collector	: Collected by Evergreen Technical Team
Analyzed By	: BEETLSL Laboratory
Monitoring Date	: 19 May, 2025
GPS Location	: 23.862593 N; 90.476197 E

LABORATORY TEST RESULTS:

Parameters	Unit	Concentration Present	ECR, 2023 Standard*					
		SWQ 03	a	b	c	d	e	f
Ammonia (NH ₃)	mg/l	0.29	-	-	-	-	-	-
BOD ₅	mg/l	12	≤2	≤3	≤3	≤6	12	≤12
COD	mg/l	34	10	10	25	50	100	100
DO	mg/l	4.97	≥6	≥5	≥5	≥5	≥1	-
Total Nitrogen	mg/l	<1.0	-	-	-	-	-	-
Oil & Grease	mg/l	0.49	-	-	-	-	-	-
pH	-	7.1	6.5-8.5	6.5-8.5	6-9	6-9	6.5-8.5	6.5-8.5
TDS	mg/l	67	1000	1000	1000	1000	1000	1000
Total Coliform	CFU/100	21	≤100	≤50	≤5000	≤5000	-	≤50000
TSS	mg/l	6	-	-	-	-	-	-
Turbidity	NTU	18.1	-	-	-	-	-	-

*The Environment Conservation Rules (ECR) 2023, Schedule 2, Standard for Inland Surface Water

Lab Test Performed by	Reviewed and checked by	Approved by
		
Mahadi Hasan Executive (Environmental Lab), BEETLSL	Md. Nasim Raza Environmental Monitoring Officer (Executive), BEETLSL	Dr. Fatima Akter Director, BEETLSL
26.05.2025	26.05.2025	26.05.2025

Quarterly Environmental Monitoring Report


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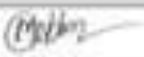
Physical/ Chemical/ Bacteriological Analysis of Water Sample

Name of the Project	Dhaka and Western Zone Transmission Grid Expansion Project
Name of the Package	Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-0)
Description of sample	Surface water sample collection
Sample ID	SWQ-04
Location	Tongi Khal, Purbachal, Gupur
Sample Collector	Collected by Evergreen Technical Team
Analyzed By	BEETLS Laboratory
Monitoring Date	19 May 2023
NPS Location	23.84222° N, 90.47570° E

LABORATORY TEST RESULTS:

Parameters	Unit	Concentration Present	ECR, 2023 Standard*						
		SWQ-04	a	b	c	d	e	f	g
Ammonia (NH ₃)	mg/l	0.58	--	--	--	--	--	--	--
BOD ₅	mg/l	8	<2	<3	<3	<6	<12	<12	<12
COD	mg/l	31	10	10	20	50	100	100	100
DO	mg/l	4.83	>6	>6	>6	>6	>6	>6	>6
Total Nitrogen	mg/l	<1.5	--	--	--	--	--	--	--
DO & Oxygen	mg/l	3.62	--	--	--	--	--	--	--
pH	--	7.7	6.5-8.5	6.5-8.5	6.5	6.5	6.5-8.5	6.5-8.5	6.5-8.5
TDS	mg/l	25	1000	1000	1000	1000	1000	1000	1000
Total Calcium	mg/l	27	<100	<100	<1000	<1000	--	<10000	--
TSS	mg/l	13	--	--	--	--	--	--	--
Turbidity	NTU	13.8	--	--	--	--	--	--	--

*The Environment Conservation Rules (ECR, 2023), Schedule 2, Standard for Inland Surface Water

Lab Test Performed by	Reviewed and checked by	Approved By
 Md. Nasim Hossain Executive (Environmental Lab), BEETLS	 Dr. Farhana Akter Environmental Monitoring Officer (Executive), BEETLS	 Dr. Farhana Akter Director, BEETLS
26.05.2023	26.05.2023	26.05.2023

"Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-0)"

Annexure 4

Test Results of Ground Water Quality Analysis

Package : 5



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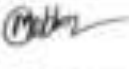
Physical/Chemical/Bacteriological Analysis of Water Sample

Name of Project	Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of sample	Groundwater Sample Collection
Sample ID	PQWQ-01
Location	Beside Dulat Moin Shop, Purbachal, Gajpur.
Sample Collector	Collected by Environment Technical Team
Analyzed By	BEETLSL Laboratory
Monitoring Date	18 May, 2023
GPS Location	23.864812 N, 90.475215 E

LABORATORY TEST RESULTS :

Parameters	Unit	Method	Concentration Present	ECR 2021 Standard*
			PQWQ-01	
Arsenic	mg/l	AAS	0.007	0.05
Cl-	mg/l	Titrimetric	38	250*
EC	µS/cm	Multimeter	281	-
Fe	mg/l	AAS	0.47	0.3-1
Mn	mg/l	AAS	0.05	0.4
pH	-	pH Meter	7.1	6.5-8.5
Turbidity	NTU	Turbidity Meter	0.06	5
FC	plate/100ml	Membrane Filtration Method For Each	0.00	0.00
TC	plate/100ml	Membrane Filtration Method For Each	0.00	0.00

*The Environment Conservation Rules (ECR) 2021, Schedule 2(B)
N.B. AAS- Atomic Absorption Spectrophotometer.

Lab Test Performed by	Reviewed and Checked by	Approved By
		
Md. Masim Raza Executive (Environmental Lab), BEETLSL	Md. Masim Raza Environmental Monitoring Officer (Executive), BEETLSL 28.05.2023	Dr. Fatima Akter Director, BEETLSL 28.05.2023

Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)

Quarterly Environment Monitoring Report


**BANGLADESH ENVIRONMENTAL ENGINEERING
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Email: info@beetls@gmail.com

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Physical/Chemical/Bacteriological Analysis of Water Sample

Name of Project	:	Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	:	Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-B)
Description of sample	:	Groundwater Sample Collection
Sample ID	:	PGWQ-02
Location	:	Near Daps Chaurabari's Shop
Sample Collector	:	Collected by Environment Technical Team
Analyzed By	:	BEETLS Laboratory
Monitoring Date	:	18 May, 2023
GPS Location	:	23.866201 N, 90.475607 E

LABORATORY TEST RESULTS

Parameters	Unit	Method	Concentration Present	ECR 2023
			PGWQ-02	Standard*
Arsenic	mg/l	AAS	0.008	0.05
Cl-	mg/l	Titrimetric	42	250*
EC	uS/cm	Multimeter	308	-
Fe	mg/l	AAS	0.41	0.3-1
Mn	mg/l	AAS	0.04	0.4
pH	-	pH Meter	7.2	6.5-8.5
Turbidity	NTU	Turbidity Meter	0.05	5
FC	cfu/100ml	Membrane Filtration Method For Each	0.00	0.00
TC	cfu/100ml	Membrane Filtration Method For Each	0.00	0.00

 *The Environment Conservation Rules (ECR) 2023, Schedule 3(B)
 N.D. AAS= Atomic Absorption Spectrophotometer

Lab Test Performed by	Reviewed and Checked by	Approved By
 Mahad Hasan Executive (Environmental Lab), BEETLS 26.05.2023	 Md. Nasim Reza Environmental Monitoring Officer (Executive), BEETLS 26.05.2023	 Dr. Fatima Akter Director, BEETLS 26.05.2023

Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-B)

Quarterly Environment Monitoring Report


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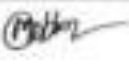
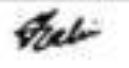
Physical/Chemical/Bacteriological Analysis of Water Sample

Name of Project	:	Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	:	Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of sample	:	Groundwater Sample Collection
Sample ID	:	PGWQ-53
Location	:	Beside Borkhau Bhow Barhoun Durga Matr
Sample Collector	:	Collected by Envirocon Technical Team
Analyzed By	:	BEETLS Laboratory
Monitoring Date	:	18 May, 2025
GPS Location	:	23.862167 N, 90.477112 E

LABORATORY TEST RESULTS

Parameters	Unit	Method	Concentration Present	ECR 2023
			PGWQ-53	Standard*
Arsonic	mg/l	AAS	0.008	0.05
Cl-	mg/l	Titrimetric	44	250*
EC	uS/cm	Multimeter	256	-
Fe	mg/l	AAS	0.41	0.3-1
Mn	mg/l	AAS	0.04	0.4
pH	-	pH Meter	7.2	6.5-8.5
Turbidity	NTU	Turbidity Meter	0.05	5
FC	cfu/100ml	Membrane Filtration Method For Each	0.00	0.00
TC	cfu/100ml	Membrane Filtration Method For Each	0.00	0.00

*The Environment Conservation Rules (ECR) 2023, Schedule 3(B)
N.D. AAS= Atomic Absorption Spectrophotometer

Lab Test Performed by	Reviewed and Checked by	Approved By
		
Mahadi Hasan Executive (Environmental Lab), BEETLSL 26.05.2025	Md. Nasim Reza Environmental Monitoring Officer (Executive), BEETLSL 26.05.2025	Dr. Fatima Akter Director, BEETLSL 26.05.2025

Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)

Quarterly Environment Monitoring Report


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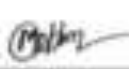
Physical/Chemical/Bacteriological Analysis of Water Sample

Name of Project	:	Dhaka and Western Zone Transmission Grid Expansion Project
Name of Package	:	Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of sample	:	Groundwater Sample Collection
Sample ID	:	PQWG-04
Location	:	Beside Mohadev Karmakar's House
Sample Collector	:	Collected by Environment Technical Team
Analyzed By	:	BEETLSL Laboratory
Monitoring Date	:	18 May, 2025
GPS Location	:	23.868051 N, 90.479480 E

LABORATORY TEST RESULTS :

Parameters	Unit	Method	Concentration Present PQWG-04	ECR 2021 Standard*
Arsenic	mg/l	AAS	0.001	0.05
Cl-	mg/l	Titrimetric	33	250*
EC	µS/cm	Multi-meter	218	-
Fe	mg/l	AAS	0.01	0.3-1
Mn	mg/l	AAS	0.05	0.4
pH	-	pH Meter	7.1	6.5-8.5
Turbidity	NTU	Turbidity Meter	0.08	5
FC	(cfu/100ml)	Membrane Filtration Method For Each	0.00	0.00
TC	(cfu/100ml)	Membrane Filtration Method For Each	0.00	0.00

*The Environment Conservation Rules (ECR) 2023, Schedule 3(B)
N.B. AAS- Atomic Absorption Spectrophotometer.

Lab Test Performed by	Reviewed and Checked by	Approved By
 Mahabul Hasan Executive (Environmental Lab), BEETLSL 24.05.2025	 Md. Masim Raza Environmental Monitoring Officer (Executive), BEETLSL 24.05.2025	 Dr. Fatima Akter Director, BEETLSL 24.05.2025

Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)



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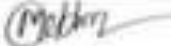
Physical/ Chemical/ Bacteriological Analysis of Soil Sample

Name of the Project	: Dhaka and Western Zone Transmission Grid Expansion Project
Name of the Package	: Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of sample	: Soil Sample collection
Sample ID	: SQ-01
Location	: In front of Dulal Mia's house, Purbachal, Kaligang, Gampur
Sample Collector	: Collected by Evergreen Technical Team
Analyzed By	: BEETLSL Laboratory
Monitoring Date	: 19 May, 2025
GPS Location	: 23.864764 N; 90.476049 E

LABORATORY TEST RESULTS:

Sl. No.	Parameters	Unit	Concentration Level	* Dutch Standard
			SQ-1	
1.	Cadmium (Cd)	PPM	0.71	0.8
2.	Chromium (Cr)	PPM	49.15	100
3.	Copper (Cu)	PPM	4.27	36
4.	Lead (Pb)	PPM	7.31	85
5.	Organic Content	%	8.73	-
6.	pH	-	6.9	-
7.	Texture	mm	0.044	-

N.B: The size of sand particles ranges between 2.0 and 0.05 mm; silt, 0.05 mm and 0.002 mm; and clay, less than 0.002 mm.

Lab Test Performed by	Reviewed and checked by	Approved By
		
Mahadi Hasan Executive (Environmental Lab), BEETLSL	Md. Nasim Reza Environmental Monitoring Officer (Executive), BEETLSL	Dr. Fatima Akter Director, BEETLSL
26.05.2025	26.05.2025	26.05.2025



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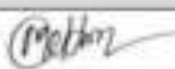
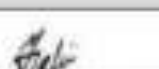
Physical/ Chemical/ Bacteriological Analysis of Soil Sample

Name of the Project	: Dhaka and Western Zone Transmission Grid Expansion Project
Name of the Package	: Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of sample	: Soil Sample collection
Sample ID	: SQ-22
Location	: Beside Dipak Chakraborty's Shop, Purbachal, Kaliganj, Gazipur
Sample Collector	: Collected by Evergreen Technical Team
Analyzed By	: BEETLSL Laboratory
Monitoring Date	: 19 May, 2025
GPS Location	: 23.865711 N, 90.475979 E

LABORATORY TEST RESULTS:

Sl. No.	Parameters	Unit	Concentration Level	* Dutch Standard
			SQ-2	
1.	Cadmium (Cd)	PPM	0.66	0.8
2.	Chromium (Cr)	PPM	39.14	100
3.	Copper (Cu)	PPM	5.02	36
4.	Lead (Pb)	PPM	6.48	85
5.	Organic Content	%	10.63	-
6.	pH	-	6.7	-
7.	Texture	mm	0.038	-

N.B: The size of sand particles ranges between 2.0 and 0.05 mm; silt, 0.05 mm and 0.002 mm; and clay, less than 0.002 mm.

Lab Test Performed by	Reviewed and checked by	Approved By
		
Mahadi Hasan Executive (Environmental Lab), BEETLSL	Md. Nasim Reza Environmental Monitoring Officer (Executive), BEETLSL	Dr. Fatima Akter Director, BEETLSL
26.05.2025	26.05.2025	26.05.2025



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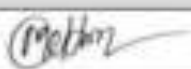
Physical/ Chemical/ Bacteriological Analysis of Soil Sample

Name of the Project	: Dhaka and Western Zone Transmission Grid Expansion Project
Name of the Package	: Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of sample	: Soil Sample collection
Sample ID	: SQ-33
Location	: Beside Athik Bridge, Purbachal, Kaliganj, Gazipur
Sample Collector	: Collected by Evergreen Technical Team
Analyzed By	: BEETLSL Laboratory
Monitoring Date	: 19 May, 2025
GPS Location	: 23.863131 N; 90.476066 E

LABORATORY TEST RESULTS:

Sl. No.	Parameters	Unit	Concentration Level	* Dutch Standard
			SQ-3	
1.	Cadmium (Cd)	PPM	0.81	0.8
2.	Chromium (Cr)	PPM	52.07	100
3.	Copper (Cu)	PPM	4.56	36
4.	Lead (Pb)	PPM	6.13	85
5.	Organic Content	%	9.15	-
6.	pH	-	6.6	-
7.	Texture	mm	0.062	-

N.B: The size of sand particles ranges between 2.0 and 0.05 mm; silt, 0.05 mm and 0.002 mm; and clay, less than 0.002 mm.

Lab Test Performed by	Reviewed and checked by	Approved By
		
Mahadi Hasan Executive (Environmental Lab), BEETLSL	Md. Nasim Reza Environmental Monitoring Officer (Executive), BEETLSL	Dr. Fatima Akter Director, BEETLSL
26.05.2025	26.05.2025	26.05.2025



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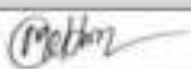
Physical/ Chemical/ Bacteriological Analysis of Soil Sample

Name of the Project	: Dhaka and Western Zone Transmission Grid Expansion Project
Name of the Package	: Design, Supply, Installation, Testing and Commissioning of 400/230/132 KV GIS Substation at Purbachal on turnkey basis (Package-6)
Description of sample	: Soil Sample collection
Sample ID	: SQ-04
Location	: Char located Tongi Khal, Purbachal, Kaliganj, Gazipur
Sample Collector	: Collected by Evergreen Technical Team
Analyzed By	: BEETLSL Laboratory
Monitoring Date	: 19 May, 2025
GPS Location	: 23.863318 N; 90.476336 E

LABORATORY TEST RESULTS:

Sl. No.	Parameters	Unit	Concentration Level	* Dutch Standard
			SQ-4	
1.	Cadmium (Cd)	PPM	0.62	0.8
2.	Chromium (Cr)	PPM	23.48	100
3.	Copper (Cu)	PPM	2.93	36
4.	Lead (Pb)	PPM	5.72	85
5.	Organic Content	%	13.87	-
6.	pH	-	6.8	-
7.	Texture	mm	0.039	-

N.B: The size of sand particles ranges between 2.0 and 0.05 mm; silt, 0.05 mm and 0.002 mm; and clay, less than 0.002 mm.

Lab Test Performed by	Reviewed and checked by	Approved By
		
Mahadi Hasan Executive (Environmental Lab), BEETLSL	Md. Nasim Reza Environmental Monitoring Officer (Executive), BEETLSL	Dr. Fatima Akter Director, BEETLSL
26.05.2025	26.05.2025	26.05.2025

Package 7



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Ref: EES/2025/MAR/AAQM

EVERGREEN ENVIRONMENTAL SERVICE LABORATORY**Test Results of Ambient Air Quality Monitoring**

Name of Project	Design, Supply, Installation, Testing and Commissioning of 230/132/33 kV GIS substation at Rupsha and 132/33 kV GIS substation at Phutula, Morirampur, Maheshpur, Meherpur on turnkey basis
Sample Collector	Collected by Evergreen Technical Team
Monitoring Date	10.03.2025-12.03.2025
Date of Analysis	15.03.2025-18.03.2025
Reporting Date	22.03.2025

SN	Sample Locations	Concentrations of different parameters in ambient air							
		SPM	PM ₁₀	PM _{2.5}	PH	SO ₂	NO _x	O ₃	CO
1	AQ-1	92.1	46.9	20.4	BDL	8.1	8.8	10.2	0.38
2	AQ-2	105.7	58.3	22.1	BDL	8.9	9.1	10.5	0.75
3	AQ-3	94.8	48.49	20.4	BDL	7.8	7.1	8.8	0.39
4	AQ-4	106.9	68.2	28.5	BDL	12.6	18.2	8.2	0.70
5	AQ-5	108.8	61.1	28.9	BDL	7.7	10.9	5.8	0.55
Unit		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³
Duration		8	24	24	24	24	24	8	8
Method of Analysis		Light Scattering Nephelometer			AAS	High Sensitivity Electrochemical			
Bangladesh Standard		200	150	65	0.5	80	80	100	5

*Standard: Air pollution Control Rules (APCR) On 26th July 2022; Vide S.R.O. NO. 255-Law/ 2022 and Environment Conservation Rules (ECR) 1997 through its subsequent amendment on 19th July, 2005; vide S.R.O. NO. 220-Law/2005.

*Note 01: This ambient air monitoring report was usually accomplished by- portable **OCEANUS AQM-09** & Air Sampler with Attachment (Single Head)

*Note 02: BDL = Below detection level, AAS=Atomic Absorption Spectroscopy

*Note 03: Sampling Location and GPS have been incorporated in Chapter 3, Sub-chapter 3.1 of the Monitoring Report.

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Test Results of Ambient Noise Level Monitoring

Name of Project	: Design, Supply, Installation, Testing and Commissioning of 230/132/33 kV GIS substation at Rupsha and 132/33 kV GIS substation at Phutola, Moritampur, Maheshpur, Meherpur on turnkey basis.
Sample Collector	: Collected by Evergreen Technical Team.
Monitoring Date	: 10.03.2025-12.03.2025
Date of Analysis	: 15.03.2025-18.03.2025
Reporting Date	: 22.03.2025

SN	Sampling ID	Concentration Present (dBA)						Category
		Day			Night			
		Leq	Lmax	Lmin	Leq	Lmax	Lmin	
1	NL-1	52.63	68.1	43.9	38.81	55.6	35.9	Mixed
2	NL-2	53.18	68.3	48.1	39.70	51.8	34.2	Mixed
3	NL-3	54.78	69.8	43.2	42.18	67.9	34.4	Mixed
4	NL-4	57.18	74.9	44.8	41.22	65.2	30.9	Mixed
5	NL-5	55.53	70.2	41.9	35.38	62.9	34.7	Mixed

Bangladesh Standard	Day Time	Night Time
Industrial area	75	70
Commercial	70	60
Mixed area	60	50
Residential area	55	45
Silent Area	50	40
World Bank / IFC Standard		
Industrial area	70	70
Residential, Institutional, Educational	55	45

*Note 01: Sampling Location and GPS have been incorporated in Chapter 3, Sub-chapter 3.1 of the Monitoring Report.



(Signature)

MD. NURULAFSAR

DIRECTOR OPERATION

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Physical/ Chemical/ Bacteriological Analysis of Water Sample

Name of Project	: Design, Supply, Installation, Testing and Commissioning of 230/132/33 kV GIS substation at Rupsha and 132/33 kV GIS substation at Phylola, Morrangpur, Maheshpur, Meherpur on turnkey basis
Description of sample	: Surface water
Sample Collector	: Collected by Evergreen Technical Team
Analyzed By	: BEETLS Laboratory
Sample Collection Date	: 16.03.2025-12.03.2025

LABORATORY TEST RESULTS

SN	Sampling ID	Concentration presents in parameters											
		Ammonia	Total Nitrogen	BOD	COD	Calcium (Total)	SD	pH	Temperature	TDS	TSS	Turbidity	Oil and Grease
1	SW-1	0.48	0.91	3	8	17	8.23	6.4	23.4	45	8	6.31	1.3
2	SW-2	0.30	1.2	3	13	10	8.18	6.1	24.1	32	8	4.77	1.2
3	SW-3	0.39	1.4	4	11	19	8.84	7.3	25.1	38	6	4.89	1.2
4	SW-4	0.35	0.91	8	13	11	7.22	7.5	23.9	35	7	4.98	1.1
5	SW-5	0.39	1.3	5	9	13	6.99	7.6	22.8	31	4	4.61	0.99
Unit		mg/L	mg/L	mg/L	mg/L	CFU/100ml	mg/L	-	°C	mg/L	mg/L	NTU	mg/L

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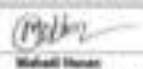
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Concentration presents in parameters													
SN	Sampling ID	Ammonia	Total Nitrogen	BOD	COD	Calcium (Total)	SD	pH	Temperature	TDS	TSS	Turbidity	Oil and Grease
Analysis method		UVS	UVS	5 days incubation	CRM	MFM	Multimeter	pH Meter	Thermometer	Multimeter	Gravimetric	Turbidity Meter	APHA 2540 (20% 2017 (5020-9)
	Bangladesh Standard, ISIRI 2019, Category-B	NYS	7	48	38	≤3000	≤5	6-9	NYS	1000	NYS	NYS	NYS

*NOTE: BCR = Environmental Conservation Rules, 1997-by Madan Singh/Phosphorus; CRM=Closed Reflux Methods; MFM=Membrane Filtration Method; NYS = Not for Set, BOD= Biochemical Oxygen Demand, COD= Chemical Oxygen Demand, SD= Dissolved Oxygen, TDS= Total Dissolved Solid, TSS= Total Suspended Solid

Lab Test Performed by	Reviewed and checked by	Approved By
 Md. Nasir Hossain Executive (Environmental Lab), BEETLS 25.03.2025	 Dr. Nasir Hossain Environmental Monitoring Officer (Executive), BEETLS 25.03.2025	 Dr. Fatima Akter Director, BEETLS 25.03.2025

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Physical/ Chemical/ Bacteriological Analysis of Water Sample

Name of Project	: Design, supply, installation, Testing and Commissioning of 230/132/33 kV GIS substation at Rajshahi and 132/33 kV GIS substation at Phulbata, Moinirampur, Maheshpur, Meherpur on turnkey basis
Description of sample	: Ground water
Sample Collector	: Collected by Evergreen Technical Team
Analyzed By	: BEST LAB Laboratory
Sample Collection Date	: 10.03.2025-10.03.2025

LABORATORY TEST RESULTS

SN	Sampling ID	Concentration presents in parameters									
		Ammonia	Chloride	Cu/iron (Fe/iron)	Cu/iron (Total)	SC	Iron (Fe)	Manganese (Mn)	pH	Salinity	Turbidity
1	QW-01	0.001	23	0	0	480	0.5	0.03	7.2	0.15	1.10
2	QW-02	0.001	22	0	0	380	0.6	0.04	7.1	0.23	1.33
3	QW-03	0.002	19	0	0	877	0.3	0.06	6.9	0.25	2.19
4	QW-04	0.002	15	0	0	921	0.6	0.05	6.8	0.27	1.14
5	QW-05	0.002	28	0	0	555	1.2	0.03	7.1	0.33	1.99
Unit		mg/L	mg/L	CFU/100 ml	CFU/100 ml	µs/cm	mg/L	mg/L		ppt	NTU
Sample Method		AAS	Tinmann	MFM	MFM	EC Meter	AAS	AAS	pH Meter	Multimeter	Turbidity Meter
Bangladesh Standard: S-734-2023		0.05	250*	0	0	NYS	0.3-1.0	0.4	6.5-8.5	3450	5

*NOTE: ECR-Environmental Conservation Rules, AAS-Atomic absorption spectrometry, MFM-Membrane Filtration Method, NYS-Not Yet Set, EC-Electrical Conductivity

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Analysis of Soil Sample

Name of Project	: Design, supply, installation, Testing and Commissioning of 230/132/33 kV GIS substation at Rajshahi and 132/33 kV GIS substation at Phulbata, Moinirampur, Maheshpur, Meherpur on turnkey basis
Description of sample	: Surface Soil
Sample Collector	: Collected by Evergreen Technical Team
Analyzed By	: BEST LAB Laboratory
Sample Collection Date	: 10.03.2025-13.03.2025

LABORATORY TEST RESULTS

SN	Sampling ID	Concentration presents in parameters						
		pH	Texture	Copper (Cu)	Lead (Pb)	Cadmium (Cd)	Chromium (Cr)	Organic Content (OC)
19	SO-1	6.7	<0.002	1.88	4.36	0.45	30.13	7.50
20	SO-2	6.5	<0.002	2.15	4.19	0.40	37.49	8.16
21	SO-3	6.2	<0.002	2.67	4.33	0.47	40.61	12.55
24	SO-4	6.2	0.050	2.55	4.10	0.37	38.71	11.63
25	SO-5	6.1	0.049	1.80	4.16	0.38	31.28	9.98
Unit			mm	ppm	ppm	ppm	ppm	%
Bangladesh Standard		NYS	NYS	35	65	0.8	100	NYS

*NOTE 01: PPM -Parts per million, NYS- Not Yet Set

*NOTE 02: The size of sand particles ranges between 2.0 and 0.05 mm; silt, 0.05 mm and 0.002 mm; and clay, less than 0.002 mm.

Page 1 of 2

Annexure-34: Status of CAP of the Existing Substations

	
Switchyard of Existing Bagerhat Substation	New transformer in Existing Bagerhat Substation
	
Switchyard of Existing Kushtia Substation	

Annexure-35: Letter to the Contractors for Conducting Quarterly Environmental Monitoring



Power Grid Bangladesh PLC
Dhaka & Western Zone Transmission Grid
Expansion Project
Head Office: Avenue-5, Industrial Estate City,
Baburghata, Dhaka-1212

Record Number: 27.21.0000.493.14.000.21.1548

Date: 09/12/2024

Subject: Submission of Quarterly Environmental Monitoring Report

Reference: Environment and Social Club, Power Grid's letter no: 27.21.0000-493.14.000.21.42194

Dear Sir,

With great concern, we have observed that quarterly environmental monitoring reports are not being submitted from your end in a timely manner. As a result, the overall compliance status of the project is being severely hampered. From now on, if any of the EPC contractors fail to submit the required reports within the due date, we will report the same to ADM and AIBD will take actions against the default contractor as per its policy which may result in being listed as a non-compliance organization. This will have a negative impact on your organization's portfolio not only for this project but also for future projects funded by ADM, WB etc. To avoid such a serious consequence, please ensure compliance to the following points:

1. Environmental monitoring report for Q3-2024 to be submitted within December 15, 2024 for all the components under every contract.
2. Quarterly environmental monitoring report starting from Q4-2024 onwards to be submitted within 15 days of end of the respective quarters. Project office will issue no more notice in this regard.
3. The contractors must not involve any third-person who are engaged with Power Grid in any capacity for the environmental monitoring activities. Conflict of interest must be avoided.
4. Laboratory reports must be submitted from accredited laboratory only. Power Grid will verify the lab reports and if any discrepancy is observed, it will be listed as a fraudulent activity.
5. No team to be disbanded without approval of a comprehensive new plan submitted by Power Grid.

Your prompt action on the above issue will be highly appreciated.

Attachment:

1/1 letter


09/12/2024
Md. Anis Karim
Project Director (Chief Engineer)
pd.abangp@pgb.gov.bd

Distribution:

1. Project Manager, Larsen and Toubro (L&T) Ltd. (for package-3)
2. Project Manager, Thermal Lighting Ltd. (for package-4)
3. Project Manager, CIT Ltd. (for package 5 & 6) and
4. Project Manager, CMEC-CHEC JV (for package-7)

Record Number: 25.21.0000.433.14.000.23.3046/3/50

Date: 09/12/2024

Copy to:

1. Superintending Engineer, Planning, Power Grid Bangladesh PLC;
2. Manager, Environment & Social Unit, Power Grid Bangladesh PLC;
3. Deputy Project Director (SE), Dhaka & Western Zone Transmission Grid Expansion Project, Power Grid Bangladesh PLC;
4. Executive Engineer, Dhaka & Western Zone Transmission Grid Expansion Project, Power Grid Bangladesh PLC and
5. Executive Engineer, Dhaka & Western Zone Transmission Grid Expansion Project, Power Grid Bangladesh PLC.


09/12/2024
Razwan Ahmed Khan
Sub-Ordinate Engineer

Annexure 36: Worker Resting Schedule

Package 2



Worker Resting Schedule Register

Project Name:			Document Type: Rest Register			
Month: May -25	Package:	2	Date: 12/05/2025			
Worker Name	Department	Shift Time	1st Rest Time	Lunch Time	2nd Rest Time	Remarks
Shahid	Filter	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	
Hilal	Filter	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	
Imam	Filter	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:00PM	
Shahid	Filter	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	
Khalid	Filter	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	
Ramzan Ali	Helper	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	
Ashraf Shah	Helper	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	
Rezaul Karim	Helper	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	
Qasim	Helper	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	



Worker Resting Schedule Register

Project Name:			Document Type: Rest Register			
Month: May -25		Package:	2	Date: 20/05/2025		
Worker Name	Department	Shift Time	1st Rest Time	Lunch Time	2nd Rest Time	Remarks
Jamal Shah	Filter	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	
Safuddin Khan	Filter	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	
Musa	Filter	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	
Sajit	Filter	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	
Sachin	Filter	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	
Rahim	Helper	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	
Ahmad Hossain	Helper	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	
Shahin	Helper	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	
Noman	Helper	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	
Jamal	Helper	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:00 - 2:00 PM	04:00 - 04:15 PM	



Package 3

Worker Resting Schedule Register

Project Name:			Document Type: Rest Register			
Month: Jan-25	Package:	1	Date: 22/04/2025			
Worker Name	Department	Shift Time	1st Rest Time	Lunch Time	2nd Rest Time	Remarks
Mirul Rahman	Filter	08:00 AM - 05:00 PM	10:40 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	
Sabbir Khan	Filter	08:00 AM - 05:00 PM	10:42 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	
Sabbir	Filter	08:00 AM - 05:00 PM	10:42 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:00PM	
Sagar	Filter	08:00 AM - 05:00 PM	10:43 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	
Ashrafur Rahman	Filter	08:00 AM - 05:00 PM	10:40 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	
Sabbir Hossain	Helper	08:00 AM - 05:00 PM	10:43 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	
Ashraf Ali	Helper	08:00 AM - 05:00 PM	10:43 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	
Arif	Helper	08:00 AM - 05:00 PM	10:43 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	
Gowtham Mondal	Helper	08:00 AM - 05:00 PM	10:42 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	
Sabbir Ahmed	Helper	08:00 AM - 05:00 PM	10:43 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	

Siddhanta L&T Consultants (Private) Ltd.

Worker Resting Schedule Register

Project Number:			Document Type: Rest Register			
Month: July -25	Package:	3	Date: - 02/07/2025			
Worker Name	Department	Shift Time	1st Rest Time	Lunch Time	2nd Rest Time	Remarks
Mirul Rahman	Filter	08:00 AM - 05:00 PM	10:42 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	
Sabbir Khan	Filter	08:00 AM - 05:00 PM	10:43 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	
Sabbir	Filter	08:00 AM - 05:00 PM	10:43 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:00PM	
Sagar	Filter	08:00 AM - 05:00 PM	10:43 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	
Ashrafur Rahman	Filter	08:00 AM - 05:00 PM	10:42 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	
Sabbir Hossain	Helper	08:00 AM - 05:00 PM	10:43 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	
Ashraf Ali	Helper	08:00 AM - 05:00 PM	10:43 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	
Arif	Helper	08:00 AM - 05:00 PM	10:43 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	
Gowtham Mondal	Helper	08:00 AM - 05:00 PM	10:42 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	
Sabbir Ahmed	Helper	08:00 AM - 05:00 PM	10:43 - 11:00 AM	01:00- 2:00 PM	04:00 - 04:15 PM	

Siddhanta L&T Consultants (Private) Ltd.

Package 4

Worker resting schedule register						
Project Name:	Poribaddipor-Demartu			Document Type- Rest Register		
Month- June-25	Package-4	LOCATION- 1/3-2/3			Date-06.6.2025	
Worker Name	Department	Shift time	1st Rest Time	Lunch Time	2nd Rest time	Remark
MD ALAMIN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD ANARUL	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD FAWEL	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD IMON	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD ARAFAT	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
SAJIB KAMRAN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD ROKIN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD FARHAD	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD AWWER	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD SAAJ	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD KAMRUL	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD TUBAN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
SAJIB KAMRAN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD TIPU	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD NARUL	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD SAKIB	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	



CS CamScanner

Worker resting schedule register						
Project Name:	Poribaddipor-Demartu			Document Type- Rest Register		
Month- June-25	Package-4	LOCATION- 1/3-2/3			Date-06.6.2025	
Worker Name	Department	Shift time	1st Rest Time	Lunch Time	2nd Rest time	Remark
MD ALAMIN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD ANARUL	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD FAWEL	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD IMON	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD ARAFAT	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
SAJIB KAMRAN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD ROKIN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD FARHAD	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD AWWER	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD SAAJ	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD KAMRUL	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD TUBAN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
SAJIB KAMRAN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD TIPU	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD NARUL	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	
MD SAKIB	Construction	8am to 5pm	10.30am to 11am	1.00pm to 1.30pm	3.45pm to 4.00pm	



CS CamScanner

Worker resting schedule register						
Project Name-		Dhaka to Hattibondha T/L			Document Type- Rest Register	
Month- June-23	Package-4	LOCATION-01/3			Date-03.6.2023	
Worker Name	Department	Shift time	1st Rest Time	Lunch Time	2nd Rest time	Remark
RIFLAT KARMAKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
KUNIN SARKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
MD RABBI HOSEN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
MIRSH HUSSAN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
SANJOY KARMAKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
SAHIB KARMAKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
MD HASAN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
MD SAGOR HUSEIN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
SHOUKAT KARMAKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
MD ALAM ILAM	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
GOPIAL SARKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
SHAFON SARKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
SARIM ILAM	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
M. KARMAKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
SHAH KARMAKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
MORUF ILAM	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	



CS Certification

Worker resting schedule register						
Project Name-		Dhaka to Hattibondha T/L			Document Type- Rest Register	
Month- June-23	Package-4	LOCATION-01/3			Date-03.6.2023	
Worker Name	Department	Shift time	1st Rest Time	Lunch Time	2nd Rest time	Remark
RIFLAT KARMAKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
KUNIN SARKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
MD RABBI HOSEN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
MIRSH HUSSAN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
SANJOY KARMAKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
SAHIB KARMAKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
MD HASAN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
MD SAGOR HUSEIN	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
SHOUKAT KARMAKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
MD ALAM ILAM	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
GOPIAL SARKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
SHAFON SARKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
SARIM ILAM	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
M. KARMAKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
SHAH KARMAKAR	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	
MORUF ILAM	Construction	8am to 5pm	10.30am to 11am	1.00pm to 2.00pm	3.45pm to 4.00pm	



CS Certification

Package 5

project name: Dhaka and Western zone Transmission Grid Expansion project
(package -5)

Date: 20-06-2025

Sl	worker name	Shift time	1st Post Time	Lunch time	2nd Post Time
01	Rafan	05:00-05:00pm	08:15AM-10:00AM	1:00-2:00pm	3:30-4:00pm
02	Mondu	05:00AM-05:00pm	10:15AM-10:30AM	1:00-2:00pm	3:30-4:00pm
03	Sharif	05:00AM-05:00pm	10:15-10:30AM	1:00-2:00pm	3:00-3:15pm
04	Reem	05:00pm-05:00pm	10:30-10:45AM	1:00-2:00pm	3:30-3:45pm
05	Pozu	05:00pm-05:00pm	10:30-10:45AM	1:00-2:00pm	3:30-3:45pm
06	Nice	05:00pm-05:00pm	10:30-10:45AM	1:00-2:00pm	3:30-3:45pm
07	Munir	05:00pm-05:00pm	10:30-10:45AM	1:00-2:00pm	3:30-3:45pm
08	Muhammad	05:00pm-05:00pm	10:15-10:30AM	1:00-2:00pm	3:30-3:45pm
09	Muhammad	05:00pm-05:00pm	10:15-10:30AM	1:00-2:00pm	3:30-3:45pm
10	Muhammad	05:00pm-05:00pm	10:35-10:45AM	1:00-2:00pm	3:30-3:45pm
11	Muhammad	05:00pm-05:00pm	10:30-10:45AM	1:00-2:00pm	3:30-3:45pm
12	Alauddin	05:00pm-05:00pm	10:30-10:45AM	1:00-2:00pm	3:15-3:30pm
13	Sagor	05:00pm-05:00pm	10:00-10:15AM	1:00-2:00pm	3:45-4:00pm
14	Shahin	05:00pm-05:00pm	10:00-10:15AM	1:00-2:00pm	3:15-3:30pm
15	Salim	05:00pm-05:00pm	10:00-10:15AM	1:00-2:00pm	3:15-3:30pm
16	Santo	05:00pm-05:00pm	10:00-10:15AM	1:00-2:00pm	3:15-3:30pm
17	Sakib	05:00pm-05:00pm	10:30-10:45	1:00-2:00pm	3:15-3:30pm
18	Ism	05:00pm-05:00pm	10:30-10:45AM	1:00-2:00pm	3:45-4:00pm
19	Kamrul	05:00pm-05:00pm	10:30-10:45AM	1:00-2:00pm	3:45-4:00pm
20	Rakib	05:00pm-05:00pm	10:45-11:00AM	1:00-2:00pm	3:45-4:00pm
21	Sabuj	05:00pm-05:00pm	10:45-11:00AM	1:00-2:00pm	3:45-4:00pm
22	Raf	05:00pm-05:00pm	10:45-11:00AM	1:00-2:00pm	3:45-4:00pm
23	Rakib	05:00pm-05:00pm	10:45-11:00AM	1:00-2:00pm	3:45-4:00pm
24	Rakib	05:00pm-05:00pm	10:45-11:00AM	1:00-2:00pm	3:45-4:00pm
25	Sabuj	05:00pm-05:00pm	10:45-11:00AM	1:00-2:00pm	3:15-3:30pm



project name: Dhaka and Western zone Transmission Grid Expansion project
(package -5)

date: 25-06-2025

SL	worker name	Shift Time	1st Post Time	Lunch time	2nd Post Time
01	Rafan	08:00-05:00pm	10:15AM-10:45AM	1:00-2:00pm	3:30-4:00pm
02	Morou	08:00AM-05:00pm	10:15AM-10:45AM	1:00-2:00pm	3:30-4:00pm
03	Shazif	08:00AM-05:00pm	10:15-10:45AM	1:00-2:00pm	3:30-3:45pm
04	Alim	08:00pm-05:00pm	10:30-10:45am	1:00-2:00pm	3:30-3:45pm
05	Pozu	08:00pm-05:00pm	10:30-10:45am	1:00-2:00pm	3:30-3:45pm
06	Naf	08:00pm-05:00pm	10:30-10:45am	1:00-2:00pm	3:30-3:45pm
07	Momir	08:00pm-05:00pm	10:30-10:45am	1:00-2:00pm	3:30-3:45pm
08	Momir	08:00pm-05:00pm	10:15-10:45am	1:00-2:00pm	3:30-3:45pm
09	Momir	08:00pm-05:00pm	10:15-10:45am	1:00-2:00pm	3:30-3:45pm
10	Momir	08:00pm-05:00pm	10:35-10:45am	1:00-2:00pm	3:30-3:45pm
11	Momir	08:00pm-05:00pm	10:30-10:45am	1:00-2:00pm	3:30-3:45pm
12	Alauddin	08:00pm-05:00pm	10:30-10:45am	1:00-2:00pm	3:15-3:30pm
13	Sagar	08:00pm-05:00pm	10:00-10:15am	1:00-2:00pm	3:45-4:00pm
14	Shahin	08:00pm-05:00pm	10:00-10:15am	1:00-2:00pm	3:15-3:30pm
15	Miloy	08:00pm-05:00pm	10:00-10:15am	1:00-2:00pm	3:15-3:30pm
16	Santo	08:00pm-05:00pm	10:00-10:15am	1:00-2:00pm	3:15-3:30pm
17	Satol	08:00pm-05:00pm	10:30-10:45	1:00-2:00pm	3:15-3:30pm
18	Lam	08:00pm-05:00pm	10:30-10:45am	1:00-2:00pm	3:45-4:00pm
19	Komol	08:00pm-05:00pm	10:30-10:45am	1:00-2:00pm	3:45-4:00pm
20	Rakul	08:00pm-05:00pm	10:45-11:00am	1:00-2:00pm	3:45-4:00pm
21	Sobuy	08:00pm-05:00pm	10:45-11:00am	1:00-2:00pm	3:45-4:00pm
22	Anif	08:00pm-05:00pm	10:45-11:00am	1:00-2:00pm	3:45-4:00pm
23	Mobir	08:00pm-05:00pm	10:45-11:00am	1:00-2:00pm	3:45-4:00pm
24	Rakab	08:00pm-05:00pm	10:45-11:00am	1:00-2:00pm	3:30-3:45pm
25	Sakib	08:00pm-05:00pm	10:45-11:00am	1:00-2:00pm	3:15-3:30pm



Project Name:- Dhaka and Western Zone Transmission Grid Expansion Project

Draught type:- Part Register

Package:- OG, Department:- Civil Date:- 26-06-25

Sl. No.	Worker Name	Shifting time	1st Shift time	2nd Shift time	3rd Shift time	Remarks
01.	Din Islam	05:00 - 05:30	10:45 - 11:00	02:00 - 2:30	4:30 - 4:55	1st shift
02.	Masum Islam	"	"	"	"	1st shift
03.	Sajibul Haque	"	"	"	"	1st shift
04.	Rubel Khan	"	"	"	"	1st shift
05.	Jasim Uddin	"	"	"	"	1st shift
06.	Sabug	"	"	"	"	1st shift
07.	Habibur	"	"	"	"	1st shift
08.	Shohal	"	"	"	"	1st shift
09.	Md. Rubel	"	"	"	"	1st shift
10.	Md. Kashem	"	"	"	"	1st shift
11.	Jahar Alam	"	"	"	"	1st shift
12.	Abul Hossain	"	"	"	"	1st shift
13.	Kashem Ali	"	"	"	"	1st shift
14.	Abu babbar	"	"	"	"	1st shift
15.	Biplab Hossain	"	"	"	"	1st shift
16.	Anik Hossain	"	"	"	"	1st shift
17.	Roun Ahmed	"	"	"	"	1st shift
18.	Md. Akbar	"	"	"	"	1st shift
19.	Abul Kashem	"	"	"	"	1st shift
20.	Md. Jannat	"	"	"	"	1st shift
21.	Md. Anik	"	"	"	"	1st shift
22.	Md. Ravi	"	"	"	"	1st shift
23.	Md. Shauin	"	"	"	"	1st shift
24.	Md. Akash	"	"	"	"	1st shift
25.	Md. Mannan	"	"	"	"	1st shift
26.	Md. Alim	"	"	"	"	1st shift
27.	Md. Sabug	"	"	"	"	1st shift
28.	Shahid Uddin	"	"	"	"	1st shift
29.	Kashem Sarker	"	"	"	"	1st shift
30.	Rashid Khan	"	"	"	"	1st shift



Worker Resting Schedule Register,

Project name:- Dhaka and Western Zone Transmission Grid Expansion project.

Document Type:- Rest Register

Package:- 06

Month of June-2025

Date:- 09-06-2025

Department:- Civil

Sl. No.	Worker Name	Starting Time	1st Rest Time	Lunch Time	2nd Rest Time	Remarks
01	Dim Islam	08:00-08:45	10:45-11:00	01:00-02:00	04:00-04:15	
02	Md. Shohag	"	"	"	"	
03	Md. Rais Uddin	"	"	"	"	
04	Md. Anis	"	"	"	"	
05	Md. Kamrul	"	"	"	"	
06	Md. Shafikul	"	"	"	"	
07	Md. Rafiq	"	"	"	"	
08	Md. Nayan	"	"	"	"	
09	Md. Milon	"	"	"	"	
10	Md. Indulul Beg	"	"	"	"	
11	Raton Mondol	"	"	"	"	
12	Md. Uzzal	"	"	"	"	
13	Bigoy	"	"	"	"	
14	Md. Sugon	"	"	"	"	
15	Md. Shariful	"	"	"	"	
16	Md. Mahabub	"	"	"	"	
17	Md. Alim	"	"	"	"	
18	Md. Shafiqul	"	"	"	"	
19	Md. Sumon	"	"	"	"	
20	Md. Kader	"	"	"	"	
21	Md. Talim	"	"	"	"	
22	Md. Kashim	"	"	"	"	
23	Md. Jansel	"	"	"	"	
24	Md. Kuddus	"	"	"	"	
25	Md. Ab. Rohim	"	"	"	"	
26	Md. Apom	"	"	"	"	

PROJECT NAME
DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 230/132/33KV GIS SUBSTATION AT RUPSHA AND 132/33KV GIS SUBSTATION AT PHULTOLA, MONIRAMPUR, MAHESHPUR, MEHERPUR ON TURNKEY BASIS (PACKAGE-7)

EMPLOYER	CONTRACTOR	SUB-CONTRACTOR
		
POWER GRID COMPANY OF BANGLADESH LTD. (PGCB)	CMEC-CNEEC Joint venture	STARPATH HOLDINGS LTD (SHL)

SITE NAME
132/33 KV GIS SUBSTATION AT MEHERPUR

DOCUMENT NAME
Worker Resting Schedule Register



Worker Resting Schedule Register

Project Name: Matarbari 132kV/110kV Substation Expansion			Document Type: Rest Register	
Month: June-20	Package:	PT	Date: 04/06/20	

Worker Name	Department	Shift Time	Set Rest Time	Leave Time	Set Rest Time	Remarks
Rana	Civil Engineer	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	
Rana	Master Worker	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	
Karim	Master Worker	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	
Rana	Master Worker	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	
Rana	Master Worker	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	
Rana	Master Worker	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	
Rana	Master Worker	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	
Rana	Master Worker	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	
Rana	Master Worker	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	

04/06/20
Signature

04/06/20
Signature



Worker Resting Schedule Register

Project Name: Matarbari 132kV/110kV Substation Expansion			Document Type: Rest Register	
Month: June-20	Package:	PT	Date: 04/06/20	

Worker Name	Department	Shift Time	Set Rest Time	Leave Time	Set Rest Time	Remarks
Rana	Civil Engineer	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	
Rana	Master Worker	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	
Rana	Master Worker	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	
Rana	Master Worker	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	
Rana	Master Worker	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	
Rana	Master Worker	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	
Rana	Master Worker	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	
Rana	Master Worker	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	
Rana	Master Worker	08:00 AM – 03:00 PM	09:00 – 11:00 AM	03:00 – 2:00 PM	04:00 – 04:15 PM	

04/06/20
Signature

04/06/20
Signature



PROJECT NAME
DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 230/132/33KV GIS SUBSTATION AT RUPSHA AND 132/33 KvGIS SUBSTATION AT PHULTOLA, MONIRAMPUR, MAHESHPUR, MEHERPUR ON TURNKEY BASIS (PACKAGE-7)

EMPLOYER	CONTRACTOR	SUB-CONTRACTOR
		
POWER GRID COMPANY OF BANGLADESH LTD. (PGCL)	CHINA NATIONAL ELECTRIC ENGINEERING CO Ltd. (CNEEC)	Riant Engineering Ltd.

SITE NAME
<i>132/33kV GIS Substation at Maheshpur</i>

DOCUMENT NAME
Worker Resting Schedule Register Riant Engineering Ltd. Staff



Worker Resting Schedule Register

Project Name: Michespur 132/33 KV GIS Grid sub-station.		Document Type: Rest Register	
Month: April - 25	Package: P7	Date: - 24/04/25	

Worker Names	Department	Shift Time	1st Rest Time	Fourth Time	2nd Rest Time	Remarks
Rahat Hossain	Civil & Elec	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:30 - 2:00 PM	04:00 - 04:15 PM	
Rahat Masud	Maintenance	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:30 - 2:00 PM	04:00 - 04:15 PM	
Tahsin	Maintenance	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:30 - 2:00 PM	04:00 - 04:15 PM	
Tahsin Ahmed	Maintenance	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:30 - 2:00 PM	04:00 - 04:15 PM	
Jahid	Maintenance	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:30 - 2:00 PM	04:00 - 04:15 PM	
Ali	Helper	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:30 - 2:00 PM	04:00 - 04:15 PM	
Masud	Helper	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:30 - 2:00 PM	04:00 - 04:15 PM	
Faruk Begum	Helper	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:30 - 2:00 PM	04:00 - 04:15 PM	
Azmat	Cook	08:30 AM - 03:30 PM	10:15 - 11:00 AM	02:00 - 2:30 PM	04:00 - 04:15 PM	
Kamal Hossain	Helper	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:30 - 2:00 PM	04:00 - 04:15 PM	
Azmat	Maintenance	08:00 AM - 05:00 PM	10:45 - 11:00 AM	01:30 - 2:00 PM	04:00 - 04:15 PM	

24/04/25
PMA, Security & Safety
PR: 1/1/25



PROJECT NAME
DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 230/132/33KV GIS SUBSTATION AT RUPSHA AND 132/33KV GIS SUBSTATION AT PHULTOLA, MONIRAMPUR, MAHESHPUR, MEHERPUR ON TURNKEY BASIS (PACKAGE-7)

EMPLOYER	CONTRACTOR	SUB-CONTRACTOR
	 	 MAZUMDER ENTERPRISES
POWER GRID COMPANY OF BANGLADESH LTD. (PGCL)	CMEC-CNEC Joint venture	MAZUMDER ENTERPRISE (ME)

SITE NAME
132/33 KV GIS SUBSTATION AT Phultola

DOCUMENT NAME
Worker Resting Schedule Register



Worker Resting Schedule Register

Project Name: Pholtola 132/33 kV sub grid sub-station.			Document Type: Rest Register	
Month/Year: 23	Package:	P1	Date: 24/04/23	

Worker Name	Department	Shift Time	1st Rest Time	Lunch Time	2nd Rest Time	Remarks
Kutiba	Chd	08:00 AM – 05:00 PM	10:00 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Lafiba	Chd	08:00 AM – 05:00 PM	10:00 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Hattar	Chd	08:00 AM – 05:00 PM	10:00 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Hassan	Chd	08:00 AM – 05:00 PM	10:00 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Harun	Chd	08:00 AM – 05:00 PM	10:00 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Mamun	Chd	08:00 AM – 05:00 PM	10:00 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Amir	Chd	08:00 AM – 05:00 PM	10:00 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Hasibul Islam	Chd	08:00 AM – 05:00 PM	10:00 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	



CS

Rashed	Chd	08:00 AM – 05:00 PM	10:00 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Murshed	Chd	08:00 AM – 05:00 PM	10:00 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Enam	Electrician	08:00 AM – 05:00 PM	10:00 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	

Prepared by: *[Signature]*
24/04/23



PROJECT NAME
DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 230/132/33KV GIS SUBSTATION AT RUPSHA AND 132/33KV GIS SUBSTATION AT PHULTOLA, MONIRAMPUR, MAHESHPUR, MEHERPUR ON TURNKEY BASIS (PACKAGE-7)

EMPLOYER	CONTRACTOR	SUB-CONTRACTOR
		
POWER GRID COMPANY OF BANGLADESH LTD. (PGCB)	CMEC-CNEC Joint venture	STARPATH HOLDINGS LTD (SHL)

SITE NAME
132/33 KV GIS SUBSTATION AT MONIRAMPUR

DOCUMENT NAME
Worker Resting Schedule Register



Worker Resting Schedule Register

Project Name: Manirampur 333/33 KV ESE Grid sub-station.			Document Type: Form Register		
Master Name: DS		Package:	PT		Date: 11/06/23

Worker Name	Department	Shift Time	1st Rest Time	Lunch Time	2nd Rest Time	Remarks
Liton	Civil Work	08:00 AM – 05:00 PM	10:45 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Mijan	Master Father	08:00 AM – 05:00 PM	10:45 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Kamal	Master Father	08:00 AM – 05:00 PM	10:45 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Sajon	Master Father	08:00 AM – 05:00 PM	10:45 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Jamun	Master Sonke	08:00 AM – 05:00 PM	10:45 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Papay	Master Sonke	08:00 AM – 05:00 PM	10:45 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Israt	Master Sonke	08:00 AM – 05:00 PM	10:45 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	



CS Construction

Saimon	Helper	08:00 AM – 05:00 PM	10:45 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Rashed	Helper	08:00 AM – 05:00 PM	10:45 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Sarif	Helper	08:00 AM – 05:00 PM	10:45 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	
Siddi		08:00 AM – 05:00 PM	10:45 – 11:00 AM	01:00 – 02:00 PM	04:00 – 04:15 PM	

Prepared By: *Saimon*
15-06-23 (Signature)

CS Construction

PROJECT NAME
DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 230/132/33KV GIS SUBSTATION AT RUPSHA AND 132/33KV GIS SUBSTATION AT PHULTOLA, MONIRAMPUR, MAHESHPUR, MEHERPUR ON TURNKEY BASIS (PACKAGE-7)

EMPLOYER	CONTRACTOR	SUB-CONTRACTOR
		
POWER GRID COMPANY OF BANGLADESH LTD. (PGCB)	CMEC-CNEC Joint venture	MAZUMDER ENTERPRISE (ME)

SITE NAME
230/132/33KV GIS Substation at Rupsha

DOCUMENT NAME
Worker Resting Schedule Register





Worker Resting Schedule Register

Project Name: 220/132/33kV S&T II, Rajshahi	Document Type: Rest Register
Month: Jan-23	Package: PT
	Site: 04-05-23

Worker Name	Department	Shift Time	1st Rest Time	Lunch Time	2nd Rest Time	Remarks
Ara	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Masum Hasan	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Ahmed Hassan	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Kamrul	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Mamun	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Mizan	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Sakib	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Rupam	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Musli	Electrical	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	

Prepared by: 
04/06/23



Worker Resting Schedule Register

Project Name: 220/132/33kV S&T II, Rajshahi	Document Type: Rest Register
Month: Jan-23	Package: PT
	Site: 03-05-23

Worker Name	Department	Shift Time	1st Rest Time	Lunch Time	2nd Rest Time	Remarks
Amin	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Masum Hasan	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Sakib	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Mamun	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Sakib	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Ron	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Rupam	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Mizan	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Musli	Electrical	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Hasib	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	
Mamun	C&I	08:00 AM – 05:00 PM	10:30 – 10:45 AM	01:20 – 01:35 PM	04:00 – 04:15 PM	

Prepared by: 
05/06/23



Annexure 38: Resubmission of CSEMP



পাওয়ার গ্রিড বাংলাদেশ পিএলসি
POWER GRID BANGLADESH PLC
(An Enterprise of Bangladesh Power Development Board)

No. 27.21.0000.433.14.001.25.848

Date: June 4, 2024

Harbuck Co., Ltd.
23, Bham, Gwangju-gu
Gwangju-si, Korea
Ph: 82-62-954-1122, Fax: 82-62-953-2117

Attn: Mr. Jansu Lee, Project Manager, Harbuck Co., Ltd.

Cont: Design, Supply, Installation, Testing & Commissioning of 400 kV & 230 kV Transmission Lines' LILCO at Kalliganj and Parbatal Substation on Turnkey basis (Package-1). (Contract No. PDCB/ADB/3853-BAN/DWZTGA/800KV & 230kV LILCO/P1 dated: 25.09.2023)

Sub: Resubmission of SEMP

Dear Sir,

This is to inform you that your submitted Site Specific Environmental Management Plan (SSEMP) has been reviewed by the concerned department of Power. Please find the observations attached herewith as an annexure.

You are kindly requested to revise and resubmit the SSEMP report, duly incorporating the attached observations, as early as possible.

Sincerely,


(Md. Abdul Kader)
Project Director (Chief Engineer)
DWZTGE Project, Power Grid
Dhaka.

CC:

- 1) Executive Director (P&D), Power Grid, Dhaka.
- 2) Chief Engineer (P&D), Power Grid, Dhaka.
- 3) Deputy Project Director, DWZTGE Project, Dhaka.
- 4) Executive Engineer, DWZTGE Project, Dhaka.
- 5) Office copy.

Page 1 of 1

Grid Bhawan, Avenue-3, Jahurul Islam City, Khatabganj, Sadak, Dhaka-1212
Web: www.powergrid.gov.bd, Telephone: +88-02 22660000-05, Fax: +88-02 22660025, E-mail: info@powergrid.gov.bd

Annexure 39: ADB Mission During Jan- Jun 2025



Site visit at Package 2 (Aftabnagar portion)



Site visit at Package 6



Site visit at Package 6



Project progress meeting at Manirampur Substation (Package 7)



Stringing observation in SMTL route



Erection observation of river crossing tower in
SRTL



Debriefing of ADB observations and
suggestions during the mission

Annexure 40: Comments on Submitted EMR of Package 3 during Jan-Jul 2025



পাওয়ার গ্রিড বাংলাদেশ পিএলসি
POWER GRID BANGLADESH PLC
(An Enterprise of Bangladesh Power Development Board)

Ref: 27.21.0006.453.14.003.21.355

Date: 23/03/2025

Project Manager
Larsen & Toubro Limited
Crystal Palace, House-SF (D), 22, 8th Floor
Road-140, Gulshan South Avenue
Gulshan-1, Dhaka.

Project: Design, Supply, Installation, Testing & Commissioning of 230 kV & 132 kV Transmission Lines in Western Zone on Turnkey Basis
(Contract No: PGCB/ADH/3853-BAN/TL/Package-3; Dated: 09/05/2021)

Subject: Comments on Submitted Environmental Monitoring Report

Reference: LTC/PT&TL/BANGLADESH/ADBP/03/2024-25/1010; dated: 06/03/2025

Dear Sir,

Environmental monitoring report of Kushtia-Meherpur 132 kV transmission line submitted vide letter referred above has been reviewed by the Environment and Social Unit of Power Grid and it has been determined that the report is not acceptable due to the reasons mentioned in the attached letter of ESU.

Therefore, you are requested to submit a detailed explanation letter based on the comments issued by the ESU.

Thankfully,



(Md. Abul Kalam)
Project Director (Chief Engineer)
DWZTGE Project, Power Grid

Attachment: Letter from ESU

Copy for (Ref. according to authority)

1. Executive Director (P&D), Power Grid
2. Chief Engineer (P&D), Power Grid
3. Superintending Engineer (Planning), Power Grid
4. Manager, ESU, Power Grid
5. Executive Engineer, DWZTGE Project, Power Grid
6. Office Copy

Grid Bhawan, Avenue-3, Jahurul Islam City, Afsharagar, Sadra, Dhaka-1213
Web: www.powergrid.gov.bd, Telephone: +88-02 226600930-39, Fax: +88-02 226600925, E-mail: info@pgcb.gov.bd



পাওয়ার গ্রিড বাংলাদেশ পিএলসি

POWER GRID BANGLADESH PLC

(An Enterprise of Bangladesh Power Development Board)

স্মারক নং: ১৭.১১.০০০০.৪০১.১০১.১০১.১০১

তারিখ: ১৭/০৫/২০১৫ খ্রি.

প্রকল্প পরিচালক
DWZTGE প্রকল্প,
পাওয়ার গ্রিড, ঢাকা।

বিষয়: Dhaka and Western Zone Transmission Grid Expansion Project এর পর্যবেক্ষণ রিপোর্ট
Kushia-Moherpur 132 kV TL এর Baseline Environmental Monitoring Report এর উপর মতামত প্রদান
প্রদান।

উপর্যুক্ত বিষয়ের আলোকে জানানো যাচ্ছে যে, প্রকল্প দপ্তর কর্তৃক গত ১০/০৫/২০১৫ খ্রিষ্টাব্দে ইংরেজি ভাষায় প্রকল্প Kushia-Moherpur 132 kV TL এর Baseline Environmental Monitoring Report পরিবেশ ও সামাজিক ইমপ্যাক্ট কর্তৃক পর্যালোচনা করা হয়। এক্ষেত্রে দেখা যায় যে রিপোর্টটি পর্যাপ্ত মানসম্মত নয় এবং বিভিন্ন বিষয়ের সঠিকতা যাচাই করা প্রয়োজন। এ প্রেক্ষিতে পরবর্তীতে ঠিকানার প্রতিনিধি হতে ইংরেজি ভাষায় প্রকল্প ট্রেনিং, মনিটরিং ও রিপোর্ট প্রস্তুতকরণ প্রতিষ্ঠান ELRC এর বিভিন্ন ডকুমেন্টস-এর কপি (Trade License, Company Brochure) নথি প্রদান অনুরোধ করা হয়। প্রকল্প দপ্তর ও রিপোর্ট পর্যালোচনার (সম্মত সংস্করণ) প্রেক্ষিতে, রিপোর্ট সংশোধনকৃত নথি বিচার আ পাওয়ার গ্রিড-এর পরিবেশ ও সামাজিক ইমপ্যাক্ট কর্তৃক প্রদানযোগ্য নয়।

এছাড়াও, পরবর্তীকালে মতামতের আলোকে কার্যসূচী ও পরিবেশিক রিপোর্ট ঠিকানার কর্তৃক বসান করার জন্য অনুরোধ জানানো হলো।

সংযুক্তি: কপি-১।

১৭/০৫/২০১৫
মোঃ জব্বার হোসেন
অধ্যক্ষ/প্রকল্প পরিচালক (প্রোগ্রামিং)
পাওয়ার গ্রিড বাংলাদেশ পিএলসি, ঢাকা
১০১

অনুলিপি:

১. ব্যবস্থাপনা পরিচালক, পাওয়ার গ্রিড বাংলাদেশ পিএলসি, ঢাকা।
২. নির্বাহী পরিচালক (মিডিয়া), পাওয়ার গ্রিড বাংলাদেশ পিএলসি, ঢাকা।
৩. প্রধান প্রকৌশলী, পিএলসি, পাওয়ার গ্রিড বাংলাদেশ পিএলসি, ঢাকা।
৪. ব্যবস্থাপনা, পরিবেশ ও সামাজিক ইমপ্যাক্ট, পাওয়ার গ্রিড বাংলাদেশ পিএলসি, ঢাকা।
৫. সচিব নথি।

Comments from ESU, Power Grid regarding the Baseline Environmental Monitoring Report for Kushtia-Meherpur 132kV TL under package-3 of the DWZTGE Project

Date: 18.03.2025

A. Issues regarding the report:

1. Please mention the basis for *Baseline Environmental Monitoring Report* as per contract. Additionally mention the provision for submitting quarterly monitoring report as per approved CESMP and include the current status of all the quarterly monitoring reports considering start date of construction work. Please check the status of submission of baseline reports immediately after CESMP approval and address the report in subsequent quarterly/semi-annual environmental monitoring reports accordingly.
2. Please address specific reference for the Baseline Monitoring Report as it was prepared in **June 2022** (inserted in several section of the report). Also, provide the submission and approval dates of the report with a copy attached.
3. Please update the organization name from **PGCB** to **Power Grid Bangladesh PLC**, as PGCB is no longer valid.
4. Please provide clarification on **PTD** and **THLU** in Section 1.1, including their relevance and connection to the project.
5. Please clarify why the GoB vision "Power to All by **2021**" is referenced, as the current year is **2025**.
6. Please justify the relevancy of mentioning Environmental Requirements of **Islamic Development Bank** in section 2.1.4.
7. Please review the surface water standards in Table 2.3, as some values do not align with the ECR 2023.
8. Please justify the use of the **AFNOR** analysis method for Total Coliform and Fecal Coliform testing in Table 3-6.
9. Please justify the inclusion of the air analysis definition from **Schroeder and Jugloff (2012)** in Section 4.1.1.2.
10. Please verify the Bangladeshi standards for NO_x and O_3 in table 4-2.
11. In several sections **ECR 2022**, **ECR 1997** are mentioned. Please check and correct this issue.



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12. Please clarify why **EQMS**-logged instruments are used for testing purposes and explain the relationship between **EQMS** and this monitoring. As **EQMS** is the ES monitoring consultant for the overall project and in this regard involvement of **EQMS** with contractors of individual packages to prepare their (contractor's) testing and monitoring reports in any capacity is advised to be prohibited to confirm transparency. This issue has already been addressed from Power Grid through official letter to all EPCs.
13. Please verify whether the parameter is $\text{NH}_3\text{-N}$ or $\text{NH}_4\text{-N}$ in surface water monitoring, as ECR 2023 specifies $\text{NH}_3\text{-N}$.
14. Please provide photographs of all the testing instruments from the lab.
15. Please insert **BAB** certification in the report.
16. Please include the date with every photograph.
17. Please check the Conclusion chapter to confirm whether it is in Chapter 5 or Chapter 6.
18. Sections 2 to 5 began with a mis-ordering of pages. Please arrange them in the correct order.
19. Please include comments response matrix for further submission.

B. Issues regarding the organization/firm (ELRC) who conducted the Baseline Survey:

1. Clarification on Business Scope:

Please explain how the business scope outlined in your trade license, particularly in relation to consultancy services, allows the organization to conduct Testing and Inspection activities without being accredited as an inspection body.

2. Clarification on Accreditation:

According to trade license, this organization was established on **August 20, 2024**, as a new entity. However, the report states that it obtained certification for **ISO 15001:2010 - Anaesthetic and Respiratory Equipment** and **OHSAS 18001:2007**. Notably, **OHSAS 18001** was officially withdrawn in **March 2018** and replaced by **ISO 45001:2018**. Given this timeline, how is it possible for an organization founded in 2024 to have obtained certification under a withdrawn standard before March 2018? Though these certificates are not relevant with testing and inspection, please clarify.
(Ref: <https://www.bsigroup.com/en-AE/BS-OHSAS-18001-Occupational-Health-and-Safety/>)

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3. Accreditation Details:

- There is no confirmation whether the organization/firm holds accreditation from the Bangladesh Accreditation Board (BAB).

4. ISO Certifications:

- There is no documentation to confirm whether the organization/firm holds certifications for:
 - ISO 17020:2015 (Inspection) or
 - ISO 17025:2015 (Testing and Calibration).
- To conduct such testing and inspection there needs proof of such ISO certification or at least proof of ongoing application/official process to obtain such certification.

5. Standard Operating Procedures (SOPs):

- We couldn't find Standard Operating Procedures and Testing Methods relevant to each of the tests that have been conducted.

6. Machine Specifications:

- Detailed specifications of the equipment used, adhering to BAB standards are missing. This should include:
 - Machine Name
 - Brand
 - Model
 - Serial Number
 - Covered Parameter Names
 - Lower and Higher Detection Values of each parameter
 - Standard Error of each parameter
 - Any additional relevant details

7. Calibration Reports:

- There needs calibration reports from an accredited calibration firm for all equipment currently in use, ensuring they align with the applicable standard operating procedures and Machine specification. Such documents are also missing with the report from ELRC.

8. Proficiency Testing (PT) or Inter-Laboratory Comparison (ILC) Reports:

- There is no validation for organization's testing competency under ISO 17025:2015 found.

9. Operational Procedures:

- We request copies of the following procedures for evaluation as there are causes for suspicion in the working transparency occurred:
 - Procedure for Handling Customer Complaints and Appeals.
 - Procedure for Subcontracting Inspection Services.
 - Procedure for Handling Inspection Deviations and Non-Conformities.
 - Document Control Procedure.

10. Internal Audit Report and Quality Manual:

- Kindly provide the latest internal audit report for our review.
- Kindly provide the latest Quality Manual of your organization.

11. Clarification on previous experience:

- From the brochure of the organization provided by EPC contractor we got to know that the firm have conducted several monitoring with renowned




international organization i.e. WB, ADB. Kindly clarify how the organization conducted such monitoring in 2016 and so on as it was formed 2024 (proof attached). How is this possible?

In this regard, we found that the testing report from this organization does not meet the required standards. Therefore, the ESU of Power Grid cannot accept this report. Contractor is requested to conduct the testing and reporting again through an esteemed firm with proper accreditation and submit the new report as soon as possible.



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Annexure 41: Good Practices

Training



Safety Training for Operational Staff (Package 4)



On-Site Training for Operational Staff (32/0, SRTL, Package 3)



Appreciation of site staff for maintaining safety standards (SMTL and SRTL route of Package 3)



HIV, STI, STD awareness program and medical camp, Package 3, Khulna

	
Medical camping (SRTL- Package 3)	Local workers using bicycles for daily commute (Domar- Package 4)
	
Satkhira- Manirampur TL Route	
	
13/0, SMTL Package 3	7/2, Domar-Purbasadipur, Package 4



Stringing at different transmission lines under package-3 without disrupting any trees/cultivation



Stringing at Purba Sadipur- Domar transmission lines under package-4 without disrupting any trees/cultivation



Stringing at different Domar- Hatibandha transmission lines under package-4 without disrupting any trees/ cultivation



Stringing at different transmission lines under package-4 without disrupting any trees/cultivation



5/0, Naogan- Patnitola TL

30/2 Domar Hatibandha TL



Covering of construction material to prevent dust generation in Manirampur and Phultala Substation



Bagerhat-Pirojpur- Bhandaria TL



All debris is removed after completion of work and cultivation is ongoing around erected towers
(Kaliganj- Maheshpur TL)



Tree Plantation Event in Dumuria (Package 3)



Tree Plantation Event in Dumuria (Package 3)



Tree plantation activity (Package 7)



Rupsha Substation (Package 7)



Package 5



Package 2



Manirampur Substation (Package 7)



Project Information Board at site (Package 7)



ID card for all workers was available at all sites (Package 5)



ID card for all workers was available at all sites (Package 7)