

Semi-Annual Environmental Monitoring Report

Project number: 42173-013

Period: July – December 2019
Submission Date: July 2020

BAN: Dhaka Environmentally Sustainable Water Supply Project (PART G)

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SURFACE WATER QUALITY MONITORING AT PROPOSED SWTP
RAJSHY GATE HOLD AT BISHNADI, BANK OF MEGHNA RIVER

ANNEXURE-4: FIELD SURVEY DATA FORMS

Date: 02-11-2019



O.CREEDS

ONUSONDHANI CREEDS

Field Survey Data Form

DWASA Surface Water Quality Monitoring Program

(1) Sample location : Bishnadi (Bank of Meghna River), Arihazer
(Chaitankanda, Bishnadi, Geo-Coordinates: N=23°44'47.107" N, E=90°43'00.000"E)
[Distance: 100m from bank of river where SWTP structure place is allocated]

(2) Field Observations:

Upon arrival at a sampling site, record visual observations on the appearance of the water and other information related to water quality and water use as below:

Parameter	Observation
a. Water Color	Greenish / reddish / yellowish / milky / colorless. Excessively muddy
b. Water appearance	Unusual amount of suspended matter / debris / foam / none
c. Rain fall	Heavy / medium / low / none
d. Day	Cloudy day / very dry / very wet
e. Unusual Odors	Hydrogen sulfide / coal / rusty odor / sewage odor / none
f. Biological Activity	Excessive growth of algae / phytoplankton / others / none

(3) Water quality field test parameters (Weekly sample / Monthly sample)

Date: 02/11/2019

Time: 10 am - 12 pm

Sample	Depth (m)	Temp (°C)	pH	Salinity (‰)	Cond. (µS/cm)	TDS (mg/l)	DO (mg/l)	Turbidity (NTU)	Hardness (mg/l)	NH ₄ (mg/l)	Color (PCU)	Flow (lt/s)
1 st grab sample	0.5	28.5	7.7	510.3	74.5	32.5	6.5	120	110	1.5	35	
2 nd grab sample	4	28.5	7.5	510.3	74.5	32.5	6.5	120	110	1.5	35	
3 rd grab sample	8	28.5	7.5	510.3	74.5	32.5	6.5	120	110	1.5	35	
Composite Sample (1 st , 2 nd , 3 rd Grab sample)	-	28.5	7.5	510.3	74.5	32.5	6.5	120	110	1.5	35	

Note-1:

Field test parameters (Weekly & Monthly): Temp=Temperature; pH; Salinity; Cond=Conductivity; DO=Dissolved Oxygen; Turbidity; TDS=Total Dissolve Solid; Hardness; NH₄=Ammonia; Color

Note-2:

Lab test parameters (Monthly sampling): Nitrate; Nitrite; COD; TSS; BOD; Phosphate; Alkalinity; Ammonia; Total Hardness; Arsenic; Boron; Manganese; Aluminum

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SURFACE WATER QUALITY MONITORING AT PROPOSED SAFF
WATER INTAKE POINT AT BIRNIGOLA BANK, DUMKHAHARI RIVER



O.CREEDS

ONUSONDHANI CREEDS

(4) Any other observations/comments:

Water Quality/ Environmental Specialist

Name: MD. SHAHADAT HOSSAIN

Date: 02/11/19

Water Quality Analyzer

Name: Md. Nur Rahman

Date: 2/11/19

DWASA PMU Representative

Name:

Designation:

Date:

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Date: 11-11-2019

SURFACE WATER QUALITY MONITORING AT PROPOSED SMT
EARTH TAKE POINT AT BISHNODI BANK OF MEGHNA RIVER

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Field Survey Data Form

DWASA Surface Water Quality Monitoring Program

- (1) **Sample location** : Bishnondi (Bank of Meghna River), Arinazer
 (Chaitankanda, Bishnondi, Geo Coordinates: N=23° 44' 47.102" N, E=90° 42' 00.000" E)
 (Distance: 100m from bank of river where SWTP structure place is allocated)

(2) **Field Observations:**

Upon arrival at a sampling site, record visual observations on the appearance of the water and other information related to water quality and water use as below:

Parameter	Observation
a. Water Color	Greenish / reddish / yellowish / muddy / colorless
b. Water appearance	Unusual amount of suspended matter / debris / foam / none
c. Rain fall	Heavy / medium / low / none
d. Day	Cloudy day / very dry / very wet
e. Unusual Odors	Hydrogen sulfide odor / musty odor / sewage odor / none
f. Biological Activity	Excessive growth of algae / phytoplankton / others / none

(3) **Water quality field test parameters (Weekly sample / Monthly sample)**

Date: 11/11/2019

Time: 10 am - 12 pm

Sample	Depth (m)	Temp (°C)	pH	Salinity (‰)	Cond. (µS/cm)	TDS (mg/L)	DO (mg/l)	Turbidity (NTU)	Hardness (mg/l)	NH ₄ (mg/l)	Color (PCU)	Flow (l/s)
1 st grab sample	0.5	20.8	7.9	0.47	308	393	4.06	2026	110	0.3	213	
2 nd grab sample	4	20.1	7.5	0.45	285	365	3.70	2132	110	0.35	197	
3 rd grab sample	8	20.0	7.3	0.43	240	302	3.52	350	110	0.36	182	
Composite Sample (1 st -2 nd -3 rd Grab sample)	-	20.2	7.6	0.45	279	321	3.57		110	0.4	189	

Note-1:

Field test parameters (Weekly & Monthly): Temp-Temperature; pH; Salinity; Cond-Conductivity; DO-Dissolved Oxygen; Turbidity; TDS-Total Dissolve Solid; Hardness; NH₄-Ammonia; Color

Note-2:

Lab test parameters (Monthly sampling): Nitrate; Nitrite; COD; TSS; BOD; Phosphate; Alkalinity; Ammonia; Total Hardness; Arsenic; Iron; Manganese; Aluminum

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SURFACE WATER QUALITY MONITORING AT PROPOSED EAST
BAKAR INTAKE POINT AT BIRSHINGA, BANK OF MEGHNA RIVER



O.CREEDS

ONUSONDHANI CREEDS

(4) Any other observations/comments:

River Water Depth: 16.5m

Water Quality/ Environmental Specialist

Name: MD. SHAHADAT HOSSAIN

Date: 11/11/19

Water Quality Analyzer

Name: Md. Moinul Haque

Date: 11/11/2019

DWASA PMU Representative

Name:

Designation:

Date:

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Date: 16-11-2019

SURFACE WATER QUALITY MONITORING AT PROPOSED SMT
WATER INTAKE POINT AT BISHNADI BANK OF MEGHNA RIVER**O.CREEDS****ONUSONDHANI CREEDS****Field Survey Data Form****DWASA Surface Water Quality Monitoring Program**

- (1) **Sample location** : Bishnadi (Bank of Meghna River), Arihazer
 [Chaitankenda, Bishnadi, Geo-Coordinates: N=23° 44' 47.107" N, E=90° 43' 00.000" E]
 [Distance: 100m from bank of river where SWTP structure place is allocated]

(2) Field Observations:

Upon arrival at a sampling site, record visual observations on the appearance of the water and other information related to water quality and water use as below:

Parameter	Observation
a. Water Color	Greenish /reddish / yellowish / milky / colorless
b. Water appearance	Unusual amount of suspended matter / debris / foam/ none
c. Rain fall	Heavy / medium/ low / none
d. Day	Cloudy day/ very dry/very wet
e. Unusual Odors	Hydrogen sulfide odor/ musty odor /sewage odor/ none
f. Biological Activity	Excessive growth of algae / phytoplankton/ others..... / none

(3) Water quality field test parameters (Weekly sample / Monthly sample)

Date: 16/11/2019

Time:

Sample	Depth (m)	Temp (°C)	pH	Salinity (‰)	Cond. (µS/cm)	TDS (mg/l)	DO (mg/l)	Turbidity (NTU)	Hardness (mg/l)	NH ₄ (mg/l)	Color (PCU)	Flow (m ³ /s)
1 st grab sample	0.5	24.2	7.5	150.7	261	247	1.97	21.25	40	0.5	514	
2 nd grab sample	4	24.7	7.0	150.5	262.3	251	1.538	21.0	40	0.5	213	
3 rd grab sample	8	24.8	7.3	149.7	261	249	1.59	20.0	40	0.18	205	
Composite Sample (1 st +2 nd +3 rd Grab sample)	-	24.7	7.5	150	260.9	249	1.608	21.0	40	0.49	201	

Note-1:

Field test parameters (Weekly & Monthly): Temp=Temperature; pH; Salinity; Cond=Conductivity; DO=Dissolved Oxygen; Turbidity; TDS=Total Dissolve Solid; Hardness; NH₄=Ammonia; Color.

Note-2:

Lab test parameters (Monthly sampling): Nitrate; Nitrite; COD; TSS; BOD; Phosphate; Alkalinity; Ammonia; Total Hardness; Arsenic; Iron; Manganese; Aluminum.

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SURFACE WATER QUALITY MONITORING AT PROPOSED SAFF
BAYER INTAKE POINT AT BIRNIGOLA BANK OF MESONHARI RIVER



O.CREEDS

ONUSONDHANI CREEDS

(4) Any other observations/comments:

Water Quality/ Environmental Specialist

Name: MD. SHAHADAT HOSSAIN

Date: 15/11/19

Water Quality Analyzer

Name: Mehinnaz Uta Rahman

Date: 16/11/2019

DWASA PMU Representative

Name:

Designation:

Date:

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Date: 23-11-2019

FORMULA WATER QUALITY MONITORING AT PROPOSED NEW
RAJSHREE TREATMENT PLANT SURROUNDING WATER QUALITY MONITORING



O.CREEDS

ONUSONDHANI CREEDS

Field Survey Data Form

DWASA Surface Water Quality Monitoring Program

- (1) Sample location : Bahirandi (Bank of Meghna River), Arthazer
[Chaitankanda, Bishnani], Gen-Coordinates, N=23°48'47.107" N, E=90°43'09.000"E]
[Distance: 100m from bank of river where SWTP structure place is allocated]

(2) Field Observations:

Upon arrival at a sampling site, record visual observations on the appearance of the water and other information related to water quality and water use as below:

Parameter	Observation
a. Water Color	Greenish (reddish / yellowish) / muddy / colorless
b. Water appearance	Unusual amount of suspended matter / debris / foam/ none <i>Cell spilled</i>
c. Rain fall	Heavy / medium/ low / none
d. Day	Cloudy day/ very dry/dewy wet
e. Unusual Odors	Hydrogen sulfide odor/ musty odor/ sewage odor/ none
f. Biological Activity	Excessive growth of algae / phytoplankton/ others: / none <i>Hydrog</i>

(3) Water quality field test parameters (Weekly sample / Monthly sample)

Date: 23/11/2019

Time: 10am - 12pm

Sample	Depth (m)	Temp (°C)	pH	Salinity (‰)	Cond. (µS/cm)	TDS (mg/l)	DO (mg/l)	Turbidity (NTU)	Hardness (mg/l)	NH ₄ (mg/l)	Color (PCU)	Flow (M ³ /s)
1 st grab sample	0.5	26.5	7.5	0.05	270	270	0.02	0.02	40	0.5	155	
2 nd grab sample	4	26.5	7.5	0.05	270	270	0.02	0.02	40	0.5	152	
3 rd grab sample	4	26.5	7.5	0.05	270	270	0.02	0.02	40	0.5	150	
Composite Sample (1+2+3) Grab Sample	-	26.5	7.5	0.05	270	270	0.02	0.02	40	0.5	151	

Note-1:

Field test parameters (Weekly & Monthly): Temp=Temperature; pH=Salinity; Cond=Conductivity; DO=Dissolved Oxygen; Turbidity; TDS=Total Dissolve Solid; Hardness; NH₄=Ammonia; Color

Note-2:

Lab test parameters (Monthly sampling): Nitrate; Nitrite; COD; TSS; BOD; Phosphate; Alkalinity; Ammonia; Total Hardness; Arsenic; Iron; Manganese; Aluminum

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UPGRADE WATER QUALITY MONITORING AT PROPOSED RAW
WATER INTAKE POINT AT DURGAPUR, DAKA OF BANGLADESH



O.CREEDS

ONUSONDHANI CREEDS

(4) Any other observations/comments:

Shahadat

Water Quality/ Environmental Specialist

Name: MD. SHAHADAT HOSSAIN

Date: 23/11/19

Mohimun Ura Rahman

Water Quality Analyzer

Name: Mohimun Ura Rahman

Date: 23/11/2019

DWASA PMU Representative

Name:

Designation:

Date:

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Date: 30-11-2019

FORWARD WASTE QUALITY MONITORING AT THE POINTS OF WATER INTAKE POINT AT MEGHNA BANK OF BISHNADI CANAL



O.CREEDS

ONUSONDHANI CREEDS

Field Survey Data Form

DWASA Surface Water Quality Monitoring Program

(1) **Sample location** : Bishnadi (Bank of Meghna River), Arinazer
 (Chaitankanda, Bishnadi, Geo-Coordinates: N=23°45'47.102" N, E=90°43'00.000" E)
 [Distance: 100m from bank of river where SWTP structure place is allocated]

(2) **Field Observations:**
 Upon arrival at a sampling site, record visual observations on the appearance of the water and other information related to water quality and water use as below:

Parameter	Observation
a. Water Color	Greenish / reddish / yellowish / muddy / colorless
b. Water appearance	Unusual amount of suspended matter / debris / foam / none
c. Rain fall	Heavy / medium / low / none
d. Day	Cloudy day / very dry / very wet
e. Unusual Odors	Hydrogen sulfide odor / musky odor / sewage odor / none
f. Biological Activity	Excessive growth of algae / phytoplankton / others / none

(3) Water quality field test parameters (Weekly sample / Monthly sample)

Date: 30/11/2019 Time: 10:00 - 12:00 PM

Sample	Depth (m)	Temp (°C)	pH	Salinity (‰)	Cond. (µS/cm)	TDS (mg/l)	DO (mg/l)	Turbidity (NTU)	Hardness (mg/l)	NH ₄ (mg/l)	Color (TCU)	Flow (M ³ /s)
1 st grab sample	0.5	21.9	7.1	0.0	51.9	47	6.66	20.14	40	0.5	21.5	
2 nd grab sample	1	25.6	7.5	0.0	86.3	40.5	1.16	20.05	40	0.5	21.5	
3 rd grab sample	1	26.3	7.7	0.0	85.8	40.4	1.17	20.16	40	0.5	21.5	
Composite Sample (1 st +2 nd +3 rd Grab sample)		24.6	7.4	0.0	74.3	45.4	1.04	20.14	40	0.5	21.5	

Note-1:
 Field test parameters (Weekly & Monthly): Temp-Temperature, pH, Salinity, Cond-Conductivity, DO-Dissolved Oxygen, Turbidity, TDS>Total Dissolve Solid, Hardness, NH₄-Ammonia, Color

Note-2:
 Lab test parameters (Monthly sampling): Nitrate, Nitrite, COD, TS, BOD, Phosphate, Alkalinity, Ammonia, Total Hardness, Arsenic, Iron, Manganese, Aluminum

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STREET WATER QUALITY MONITORING AT PROPOSED NEW
EXPANSION POINT AT OSWORE CANE OF MROUSA P.B.P.



O.CREEDS

ONUSONDHANI CREEDS

(4) Any other observations/comments:

Shahed

Water Quality/ Environmental Specialist

Name: MD. SHAHADAT HOSSAIN

Date: 30/11/19

Mohimen U. Rahman

Water Quality Analyzer

Name: Mohimen U. Rahman

Date: 30/11/2019

DWASA PMU Representative

Name:

Designation:

Date:

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OUR WATERS QUALITY MONITORING AT PROPOSED DAM
 (AAR) AT RAJSHAHI GOVT. CANAL, RAJSHAHI, BANGLADESH

ANNEXURE-5: Lab test result scan copy (Monthly)

	Government of the People's Republic of Bangladesh Office of the Chief Chemist Department of Public Health Engineering Central Lab, 38-39, Mohakhali C/A, Dhaka-1212 Phone: 88-02-881927, Fax: 88-02-882000, Email: water_central_dphe@yahoo.com	
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Lab. No: 551/CC, DPHE, CL, Dhaka.

Date: 15-12-2019

Physical/Chemical/Bacteriological Analysis of Water Sample

Sample ID: CEN/2019/2014	Sample Receiving date: 07-12-2019
Ref. Memo No: O.Creeds/2019/118 & Dated: 02-12-2019	Sample Source: River Water
Sent by: Engr. Md. Shahadul Hossain, Chief Executive Officer, O. Creeds, Mohakhali DPHE, Dhaka-1212.	Dist: Narayanganj, Upa: Anahazir
Date Taken: O. Creeds (Sample ID: 19-20/Nov DWASA)	Union: M: Meghna mer
Sample Collection date:	Date of Testing: 02-12-2019-17/12/2019

LABORATORY TEST RESULTS:

Sl.#	Water quality parameters	Bangladesh Standard	Concentration present	Unit	Analysis Method	LOQ
1	Alkalinity	-	82	mg/l	Titrimetric	-
2	Aluminum (Al)	0.2	0.198	mg/L	AAS	5.000
3	Ammonia	0.5	0.56	mg/L	UVS	0.1
4	Arsenic (As)	0.05	0.001	mg/L	AAS	0.001
5	Biochemical Oxygen Demand (BOD)	0.2	2	mg/L	5 days incubation	0.1
6	Chemical Oxygen Demand (COD)	1.0	12	mg/L	CRM	-
7	Hardness	250-500	113	mg/L	Titrimetric	-
8	Iron (Fe)	0.3	0.21	mg/L	AAS	0.05
9	Manganese (Mn)	0.1	0.09	mg/L	AAS	0.05
10	Nitrogen (Nitrate)	10.0	2.2	mg/L	UVS	0.10
11	Nitrogen (Nitrite)	<1.0	0.03	mg/L	UVS	0.02
12	Phosphate	0.05	1.0	mg/L	UVS	0.10
13	Total Suspended Solid (TSS)	10	1	mg/L	Gravimetric Method	-

Comments: Sample was collected & supplied by client.
 N.B: AAS - Atomic Absorption Spectrophotometer, UVS - UV-Visible Spectrophotometer, CRM - Closed Reflex Methods, LOQ - Limit of Quantification.

Test Performed by: 1.) Name: Md. Saifu Alam Khasru Designation: Sample Analyzer 18.12.19	Countersigned/Approved by: 1.) Name: Misa Serket Designation: Senior Chemist 18/12/19 2.) Name: Md. Bilal Hossain Designation: Chief Chemist 18/12/19 General Manager, O. Creeds, Anahazir, Narayanganj
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Page 1 of 1

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STATE OF WYOMING POLITICAL CORRUPTION PREVENTION ACT
WYOMING STATUTES TITLE 26, CHAPTER 1, ARTICLES 1-4

ANNEXURE-6:
Previous Month Results



Month: July/2019

Table W1/2019: Weekly Sampling Results; 18/07/2019

Weekly sampling: Water quality field test parameters results; Month: July/2019											
Date: 18-07-2019						Time: 10-12					
Sample	Depth (m)	Temp °C	pH	Salinity ‰	Cond. µS/cm	TDS mg/l	DO mg/l	Turbidity NTU	Hardness mg/l	NH3 mg/l	Color Hazen Unit
1st grab sample	0.5	30.6	7.2	0.03	75.8	32.9	6.5	14.66	40	0.23	138
2nd grab sample	4	30.3	7.3	0.03	69.2	29.4	6.61	19.08	60	0.32	110
3rd grab sample	8	30.1	7.2	0.03	68.9	32	6.87	14.28	60	0.3	140
Composite sample (1st+2nd+3rd grab sample)	-	30.1	7.2	0.03	66	30.9	6.8	16.32	40	0.2	122
Max		30.6	7.3	0.03	75.8	32.9	6.87	19.08	60	0.32	140
Min		30.1	7.2	0.03	66	29.4	6.5	14.28	40	0.2	110
Avg.		30.3	7.23	0.03	70.28	31.25	6.69	16.28	50	0.26	126.67

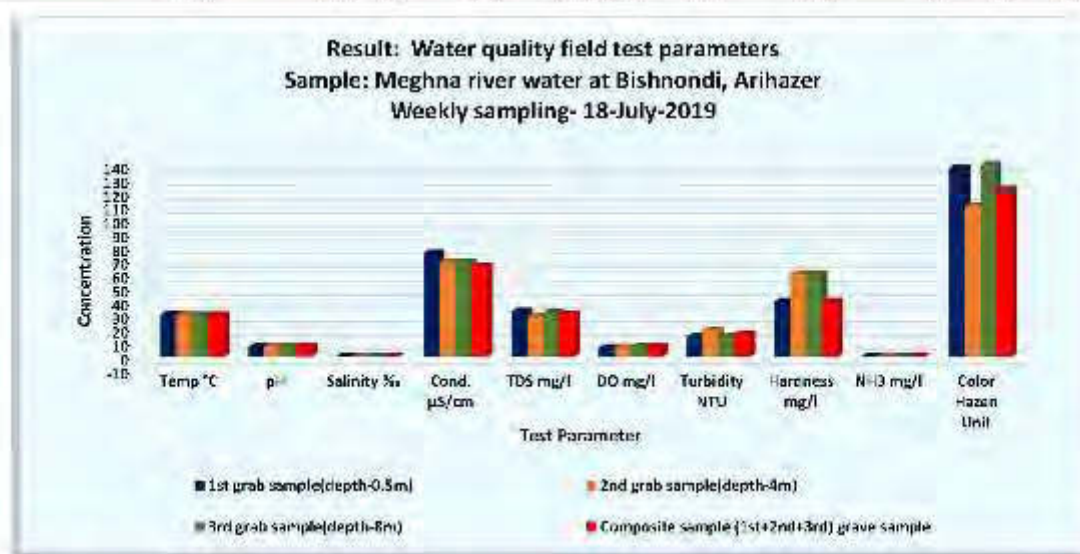


Figure W-1/2019 Water quality field test parameters Sample: Meghna river water at Bishnondi, Arihazer Weekly sampling- 18-July-2019



Table W2/2019: Weekly sampling results, 25/07/2019

Weekly sampling: Water quality field test parameters results; Month: July/2019											
Date: 25-07-2019						Time: 10-12					
Sample	Depth (m)	Temp °C	pH	Salinity %	Cond. µS/cm	TDS mg/l	DO mg/l	Turbidity NTU	Hardness mg/l	NH3 mg/l	Color Hazen Unit
1st grab sample	0.5	30.3	7.5	0.03	75.9	32.4	6.39	12.1	60	0.24	139
2nd grab sample	4	30.6	7.4	0.03	78.9	33.4	6.66	19.48	40	0.33	140
3rd grab sample	8	30.5	7.2	0.03	82	34.2	6.79	14.28	60	0.36	145
Composite sample (1st+2nd+3rd) grab sample	-	30	7.2	0.03	78	31	6.8	17.89	40	0.21	145
Max		30.5	7.5	0.03	82	34.2	6.8	19.48	60	0.36	145
Min		30	7.2	0.03	75.9	31	6.39	12.1	40	0.21	139
Avg.		30.28	7.33	0.03	78.78	32.7	6.64	15.89	50	0.29	142.17

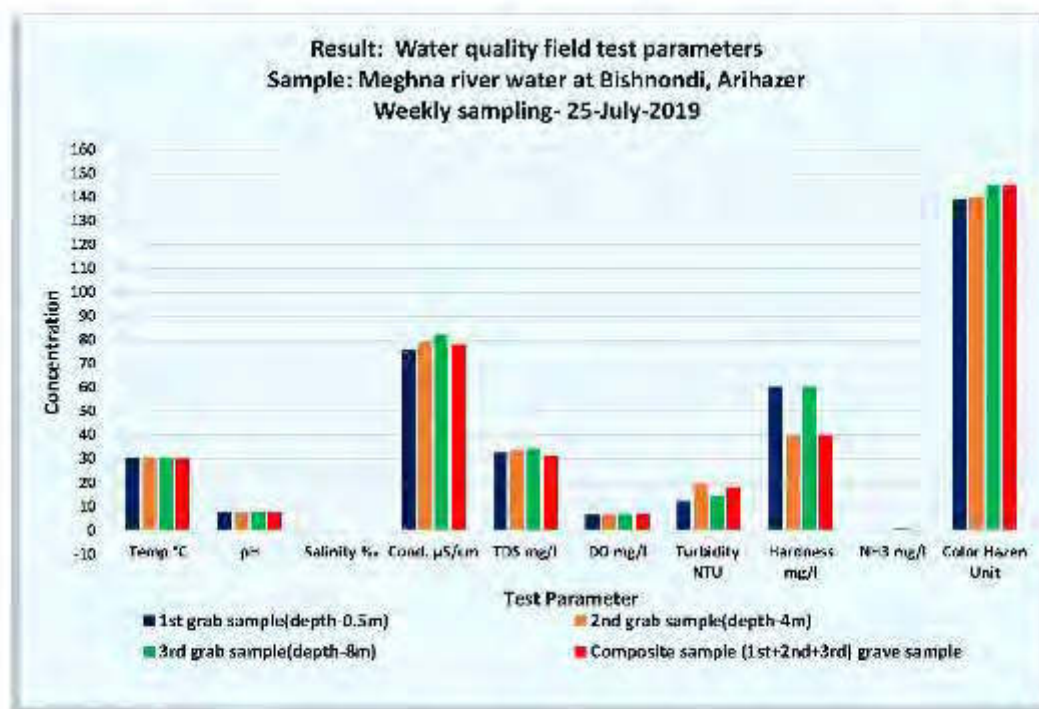


Figure W-2/2019 Water quality field test parameters Sample: Meghna river water at Bishnondi, Arihazer Weekly sampling- 25-July-2019



Table W3/2019: Weekly sampling results; Month: 31/July/2019

Water quality field test parameters (weekly sample);Month: July/2019											
Date: 31-07-2019						Time: 10-12					
Sample	Depth (m)	Temp °C	pH	Salinity ‰	Cond. µS/cm	TDS mg/l	DO mg/l	Turbidity NTU	Hardness mg/l	NH3 mg/l	Color Hazen Unit
1st grab sample	0.5	30.1	7.6	0.03	65.5	32.8	6.35	19.2	40	0.32	147
2nd grab sample	4	30.1	7.4	0.03	68.4	34.25	6.63	19.4	40	0.33	152
3rd grab sample	8	30.1	7.2	0.03	68.9	37.7	6.7	19.85	40	0.35	160
Composite sample (1st+2nd+3rd grab sample)	-	30.3	7.1	0.03	65.2	32.7	6.41	19.32	40	0.33	157
	Max	30.3	7.6	0.03	68.9	37.7	6.7	19.85	40	0.35	160
	Min	30.1	7.1	0.03	65.2	32.7	6.35	19.2	40	0.32	147
	Avg	30.17	7.3	0.03	67.02	34.64	6.52	19.47	40	0.33	153.83

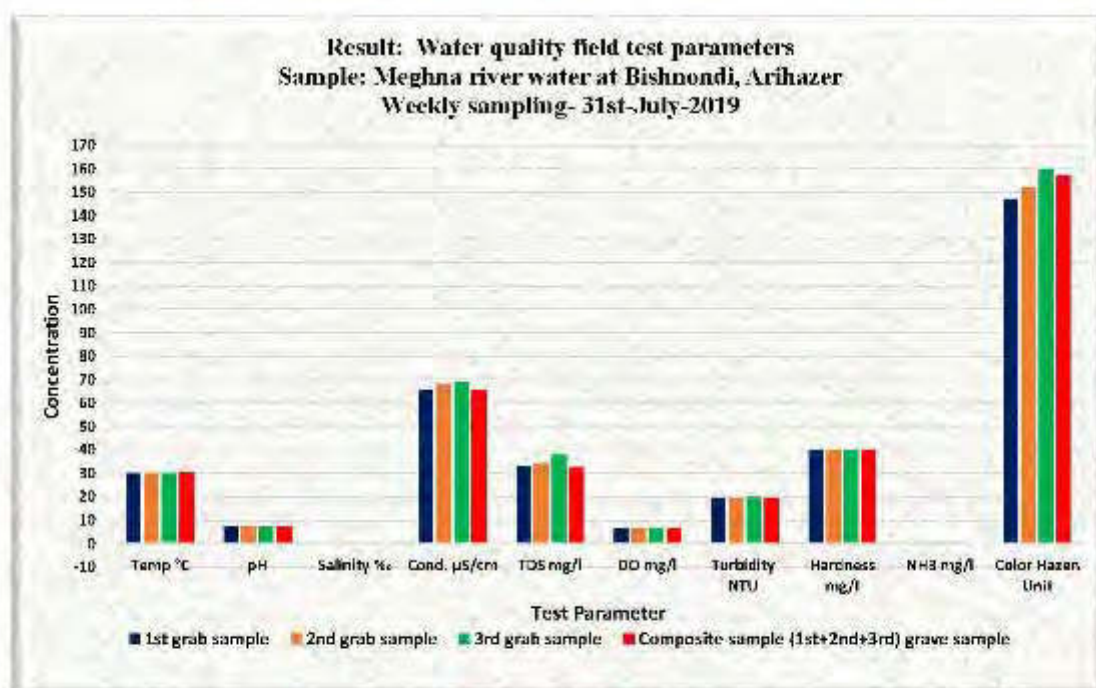


Figure 0-3/2019 Water quality field test parameters Sample: Meghna river water at Bishnondi, Arahazar Weekly sampling- 31st-July-2019



Month: August/2019

Table W4/2019: Weekly sampling results; Month: 1/August/2019

Water quality field test parameters (weekly sample-1 st week); Month: August/2019										
Date: 01- 08-2019						Time: 10-12				
Sample	Temp °C	pH	Salinity ‰	Cond. µS/cm	TDS mg/l	DO mg/l	Turbidity NTU	Hardness mg/l	NH ₃ mg/l	Color Hazen Unit
1st grab sample (0.5m depth)	30.5	7.5	0.03	79.5	33.7	6.36	14.9	40	0.23	139
2nd grab sample (4m depth)	30.4	7.2	0.03	75.2	31.8	6.51	17.04	40	0.27	142
3rd grab sample (8m depth)	30.5	7.2	0.03	75.8	31.9	6.79	16.86	40	0.3	145
Composite sample (1st+2nd+3rd grab sample)	30.3	7.2	0.03	78	33	6.77	12.13	40	0.24	140
Max	30.5	7.5	0.03	79.5	33.7	6.79	17.04	40	0.3	145
Min	30.3	7.2	0.03	75.2	31.8	6.36	12.13	40	0.23	139
Avg.	30.41667	7.30	0.03	77.20	32.65	6.60	15.02	40	0.26	141.67

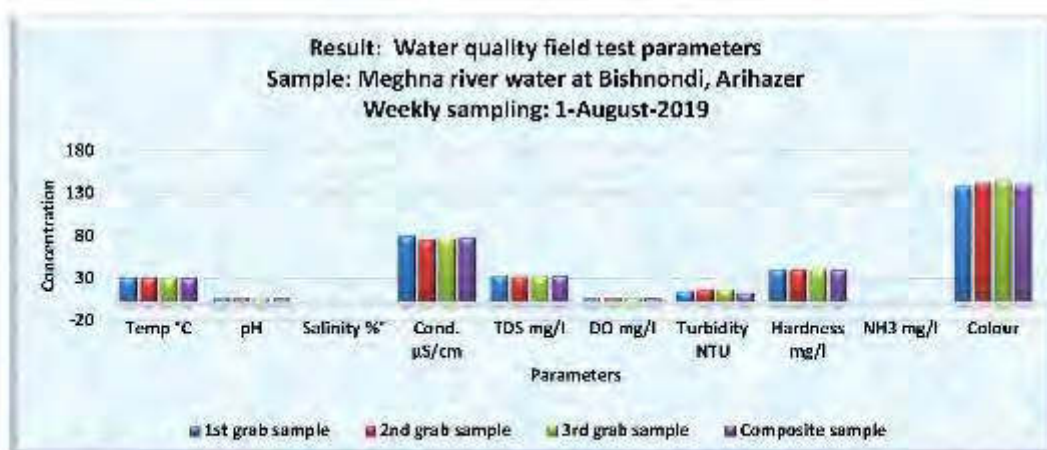


Figure 0-4/2019 Water quality field test parameters Sample: Meghna river water at Bishnondi, Arihazar Weekly sampling: 1st August 2019



Table WS/2019: Weekly sampling results; Month: 8/August/2019

Water quality field test parameters (weekly sample-2 nd week); Month: August/2019										
Date:08-08-2019						Time: 10-12				
Sample	Temp °C	pH	Salinity ‰	Cond. µS/cm	TDS mg/l	DO mg/l	Turbidity NTU	Hardness mg/l	NH3 mg/l	Color Hazen Unit
1st grab sample (0.5m depth)	30.6	7.5	0.03	74.5	35.6	6.3	12.4	40	0.24	139
2nd grab sample (4m depth)	30.5	7.3	0.03	72.3	30.5	6.86	18.43	40	0.27	146
3rd grab sample (8m depth)	30.4	7.1	0.03	76.3	32.2	6.91	17.64	60	0.31	116
Composite sample (1st+2nd+3rd grab sample)	30.3	7.3	0.03	83	34.8	6.86	17.69	40	0.21	127
Max	30.6	7.5	0.03	83	35.6	6.91	18.43	60	0.31	146
Min	30.3	7.1	0.03	72.3	30.5	6.3	12.4	40	0.21	116
Avg.	30.45	7.30	0.03	76.90	33.2	6.69	16.17	46.66	0.26	131.67

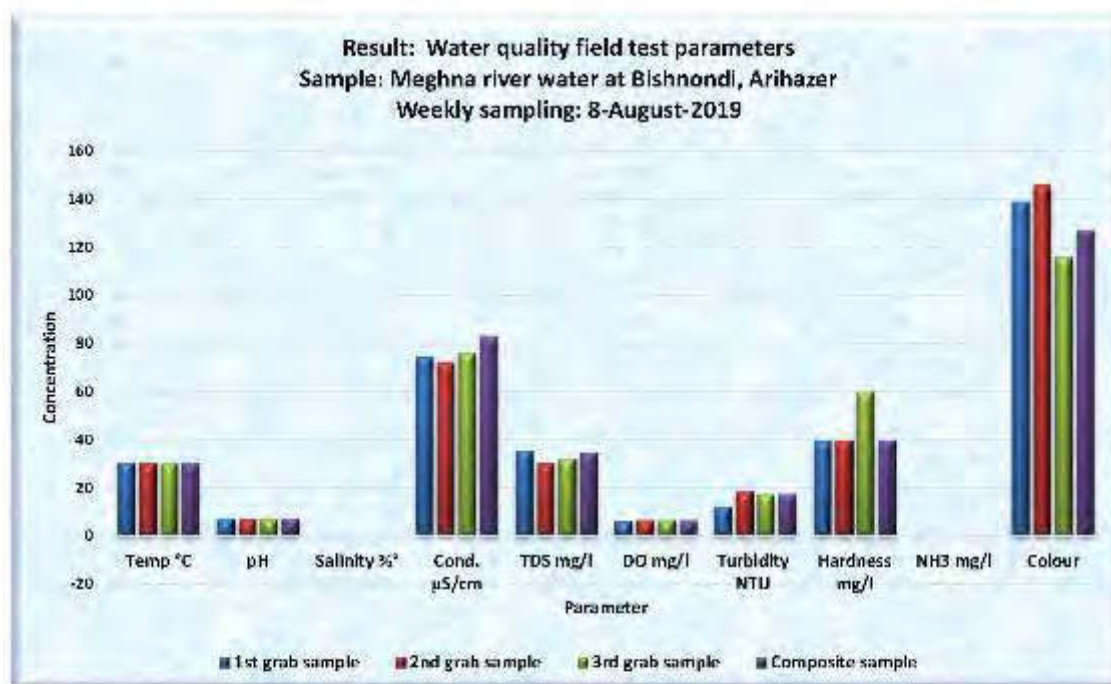


Figure 0-5/2019 Water quality field test parameters Sample: Meghna river water at Bishnoli, Arihazar Weekly sampling- 8th-August-2019



Table W6/2019: Weekly sampling results; Month: 14/August/2019

Water quality field test parameters (weekly sample-3 rd week); Month: August/2019										
Date: 14-08-2019						Time: 10-12				
Sample	Temp °C	pH	Salinity ‰	Cond. µS/cm	TDS mg/l	DO mg/l	Turbidity NTU	Hardness mg/l	NH3 mg/l	Color Hazen Unit
1st grab sample (0.5m depth)	30.5	7.5	0.03	64.2	30.25	6.4	19.4	40	0.33	151
2nd grab sample (4m depth)	30.4	7.5	0.03	67.4	33.2	6.32	18.89	40	0.29	180
3rd grab sample (8m depth)	30.7	7.3	0.03	68.5	32	6.69	18.5	40	0.32	144
Composite sample (1st+2nd+3rd grab sample)	30	7.3	0.03	66.1	30.1	6.78	17.7	40	0.25	170
Max	30.5	7.5	0.03	68.5	33.2	6.78	19.4	40	0.33	180
Min	30	7.3	0.03	64.2	30.1	6.32	17.7	40	0.25	144
Avg.	30.25	7.40	0.03	66.48	31.475	6.55	18.60	40	0.30	161.50

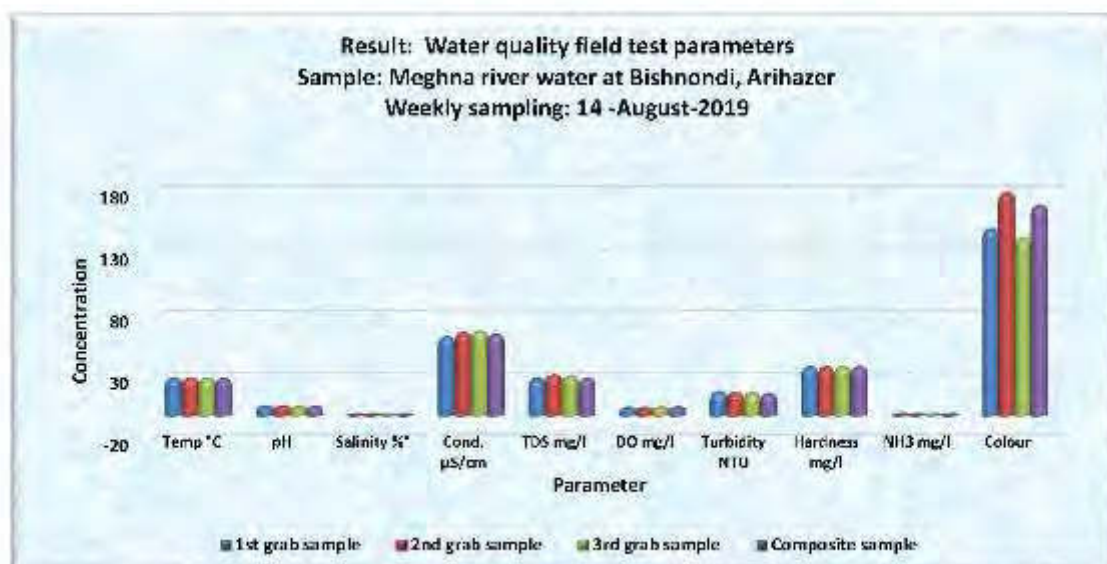


Figure 0-6/2019 Water quality field test parameters Sample: Meghna river water at Bishnondi, Arihazer Weekly sampling- 14th-August-2019



Table W7/2019: Weekly sampling results; Month: 21/August/2019

Water quality field test parameters (weekly sample-4 th week); Month: August/2019										
Date: 21-08-2019						Time: 10-12				
Sample	Temp °C	pH	Salinity ‰	Cond. µS/cm	TDS mg/l	DO mg/l	Turbidity NTU	Hardness mg/l	NH3 mg/l	Color Hazen Unit
1st grab sample (0.5m depth)	33.3	7.1	0.03	73.7	28.8	6.02	23.26	40	0.35	142
2nd grab sample (4m depth)	34.4	7.2	0.03	72.8	28.6	6.19	21.49	40	0.3	177
3rd grab sample (8m depth)	33.9	7.1	0.03	72.7	29	6.2	19.76	40	0.35	181
Composite sample (1st+2nd+3rd grab sample)	33.9	7.1	0.03	72.9	31.2	6.2	22.04	40	0.24	181
Max	34.4	7.2	0.03	77.9	31.2	6.2	23.26	40	0.35	181
Min	33.3	7.1	0.03	72.7	28.6	6.02	19.76	40	0.24	142
Avg.	33.76	7.13	0.03	74.62	29.73	6.14	21.60	40	0.30	167.33

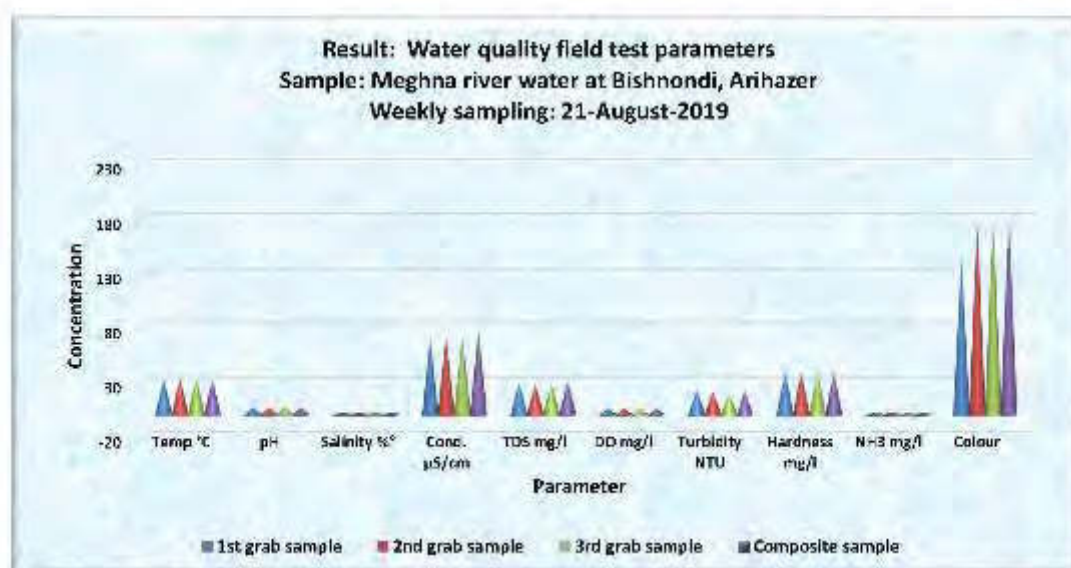


Figure 0-7/2019 Water quality field test parameters Sample: Meghna river water at Bishnondi, Arihazar Weekly sampling- 21st-August-2019

**Data of Fifth weekly sample (28/8/2019) = Date of seasonal sample in the same date



OUR PACE WITH QUALITY MONITORING AT PROPOSED EAST
DAPUR (TAKS) (GPO) AT BARRINGDALE, AREA (UP) MANGALURU

Laboratory Test- Monthly sample and Seasonal Sample

Laboratory Test Results- Monthly Sample

Water quality Laboratory test result- Monthly sample; Composite sample					
Test conducted by: DPHE Central Laboratory, Mohakhali, Dhaka					
1st- Monthly sample: August/2019					
Date: 31-07-2019		Composite sample Depth=[Sample-1: 0.5m+Sample-2:4m+Sample-3: 8m]			
Water quality parameters	Bangladesh Standard	Concentration present	Unit	Analysis Method	LOQ
Alkalinity		38	mg/L	Titrimetric	
Aluminum	0.2	0.23	mg/L	AAS	0.002
Ammonia	0.5	0.63	mg/L	LVS	0.1
Arsenic (As)	0.05	0.001	mg/L	AAS	0.001
Biochemical Oxygen Demand (BOD)	0.2	18	mg/L	days incubation	0.1
Chemical Oxygen Demand (COD)	4	68	mg/L	CRM	
Hardness	200-500	110	mg/L	Titrimetric	
Iron (Fe)	0.3-1	0.49	mg/L	AAS	0.05
Manganese (Mn)	0.1	0.1	mg/L	AAS	0.03
Nitrogen (Nitrite)	10	2.5	mg/L	LVS	0.1
Nitrogen (Nitrite)	<1.0	0.03	mg/L	LVS	0.02
Phosphate	6	0.73	mg/L	LVS	0.1
Total Suspended Solid (TSS)	10	4.3	mg/l	Gravimetric Method	


Laboratory Test Results - Seasonal Sample

Water quality Laboratory test result- Seasonal sample: Composite sample					
Test conducted by: DPHE Central Laboratory, Mohakhali, Dhaka					
1st seasonal sample: August/2019					
Date: 31-07-2019		Composite sample Depth=[Sample-1: 0.5m+Sample-2: 4m+Sample-3: 8m]			
Water quality parameters	Bangladesh Standard	Concentration present	Unit	Analysis Method	LOQ
Ammonia	0.5	0.6	mg/L	LVS	0.1
Arsenic (As)	0.05	0.001	mg/L	AAS	0.01
Barium (Ba)	0.01	0.09	mg/L	AAS	-
Biochemical Oxygen Demand (BOD)	0.2	8	mg/L	5 days Incubation	0.1
Cadmium (Cd)	0.005	0.00058	mg/L	AAS	0.00015
Chemical Oxygen Demand (COD)	4	36	mg/L	CRM	-
Chloride	150-600	10	mg/L	Titrimetric	-
Coliform (Fecal)	0	144	N/100ml	MFM	-
Copper (Cu)	1	0.26	mg/L	AAS	0.26
Chromium (Total) [Cr]	0.05	0.008	mg/L	AAS	0.0003
Fluoride	1	0.12	mg/L	LVS	0.12
Lead (Pb)	0.05	0.004	mg/L	AAS	0.001
Nickel (Ni)	0.1	0.03	mg/L	AAS	0.01
Nitrogen (Nitrate)	10	1.9	mg/L	LVS	0.1
Nitrogen (Nitrite)	<1.0	0.03	mg/L	LVS	0.02
Phosphate	6	0.84	mg/L	LVS	0.1
Selenium (Se)	0.01	0.001	mg/L	AAS	0.002
Sodium (Na)	200	10	mg/L	AAS	0.34
Sulphate	400	1	mg/L	LVS	1
Zinc (Zn)	5	0.08	mg/L	AAS	0.05



Month: September/2019

Table W8/2019: Weekly sampling results; Month: 5/September/2019

Water quality field test parameters (weekly sample- 1 st week); Month: September/2019										
Date:05- 09-2019						Time: 10-12				
Sample	Temp °C	pH	Salinity ‰	Cond. µS/cm	TDS mg/l	DO mg/l	Turbidity NTU	Hardness mg/l	NH3 mg/l	Color Hazen Unit
1st grab sample (0.5m depth)	32	7.5	0.03	71.4	29.3	6.67	17.04	40	0.23	49
2nd grab sample (4m depth)	31.6	7.6	0.03	74.3	30.7	6.68	13.81	40	0.28	51
3rd grab sample (8m depth)	31.6	7.3	0.03	73.3	30.3	6.79	15.12	40	0.21	56
Composite sample (1st+2nd+3rd grab sample)	31.4	7.4	0.03	71	29.8	6.94	12.58	40	0.28	62
Max	30.1	7.8	0.03	73	31.3	7.08	23.56	40	0.33	142
Min	29.3	7.5	0.03	58.3	27.4	7.01	17.62	40	0.24	125
Avg.	29.74	7.66	0.03	65.56	29.02	7.04	20.548	40	0.288	132.8

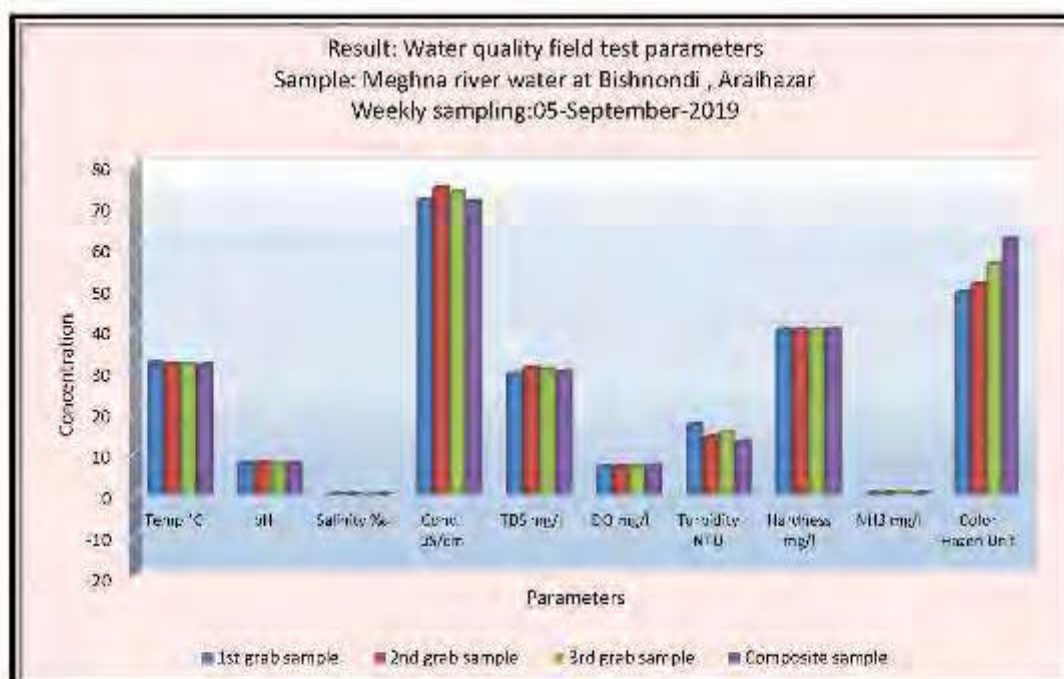

 Figure 0-8/2019 Water quality field test parameters Sample: Meghna river water at Bishnondi, Arai hazar Weekly sampling- 5th -September-2019



Table W9/2019: Weekly sampling results; Month: 14/September/2019

Water quality field test parameters (weekly sample-2 nd week); Month: September/2019										
Date: 14-09-2019						Time: 10-12				
Sample	Temp °C	pH	Salinity ‰	Cond. µS/cm	TDS mg/l	DO mg/l	Turbidity NTU	Hardness mg/l	NH3 mg/l	Color Hazen Unit
1st grab sample (0.5m depth)	32	7.6	0.03	70.6	34.2	7.12	36.91	40	0.19	213
2nd grab sample (4m depth)	31.6	7.6	0.03	69.7	32.7	7.32	33.7	40	0.2	232
3rd grab sample (8m depth)	31.6	7.5	0.03	87.6	41.6	7.34	28.58	40	0.2	222
Composite sample (1st+2nd+3rd grab sample)	31.4	7.5	0.03	78.3	37.2	7.34	28.99	40	0.22	228
Max	32	7.6	0.03	87.6	41.6	7.34	36.91	40	0.2	232
Min	31.6	7.5	0.03	69.7	32.7	7.12	28.58	40	0.19	213
Avg.	31.76	7.56	0.03	77.04	36.56	7.248	32.936	40	0.196	222.4

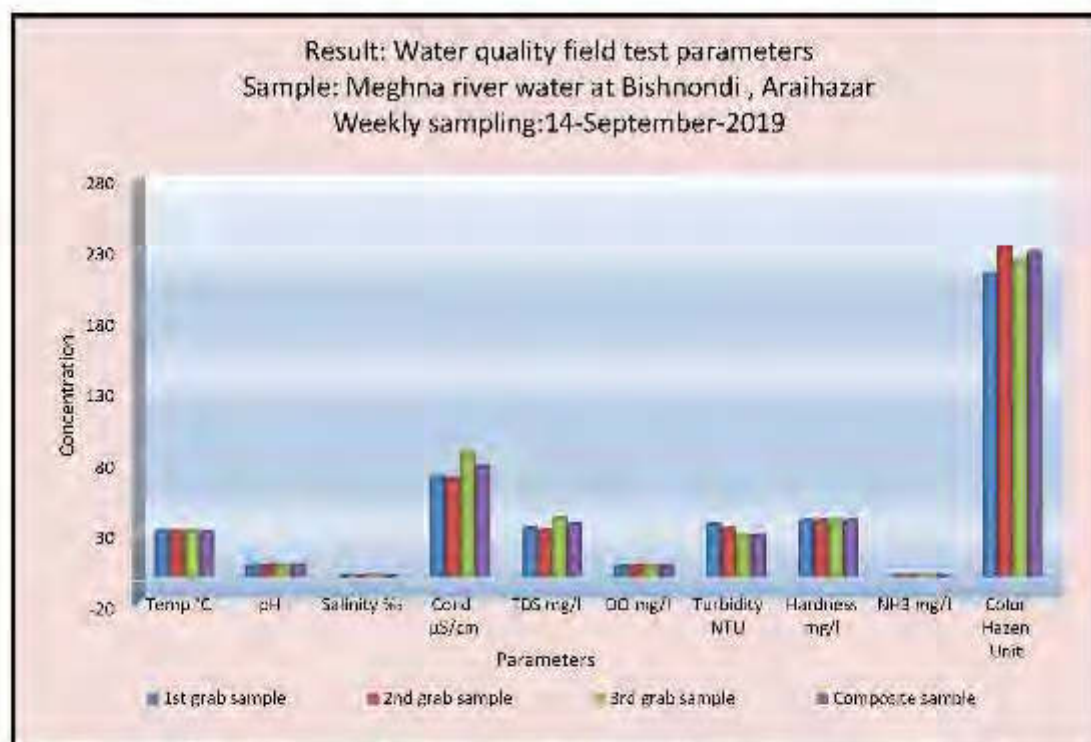

 Figure 0-9/2019 Water quality field test parameters Sample: Meghna river water at Bishnondi, Araihaazar Weekly sampling- 14th -September-2019



Table W10/2019: Weekly sampling results; Month: 21/September/2019

Water quality field test parameters (weekly sample-3 rd week); Month: September/2019										
Date: 21-09-2019						Time: 10-12				
Sample	Temp °C	pH	Salinity ‰	Cond. µS/cm	TDS mg/l	DO mg/l	Turbidity NTU	Hardness mg/l	NH3 mg/l	Color Hazen Unit
1st grab sample (0.5m depth)	32.7	7.4	0.03	74.2	30	6.4	16.25	40	0.3	86
2nd grab sample (4m depth)	32.4	7.6	0.03	69.4	28.2	6.76	24.27	40	0.3	88
3rd grab sample (8m depth)	32.3	7.5	0.03	71.9	29.3	6.67	20.24	40	0.28	118
Composite sample (1st+2nd+3rd grab sample)	31.7	7.4	0.03	73.3	30.2	6.77	23.32	40	0.28	92
Max	32.7	7.6	0.03	74.2	30	6.76	24.27	40	0.3	118
Min	32.3	7.4	0.03	69.4	28.2	6.4	16.25	40	0.28	86
Avg.	32.48	7.5	0.03	71.82	29.14	6.598	20.256	40	0.292	99.2

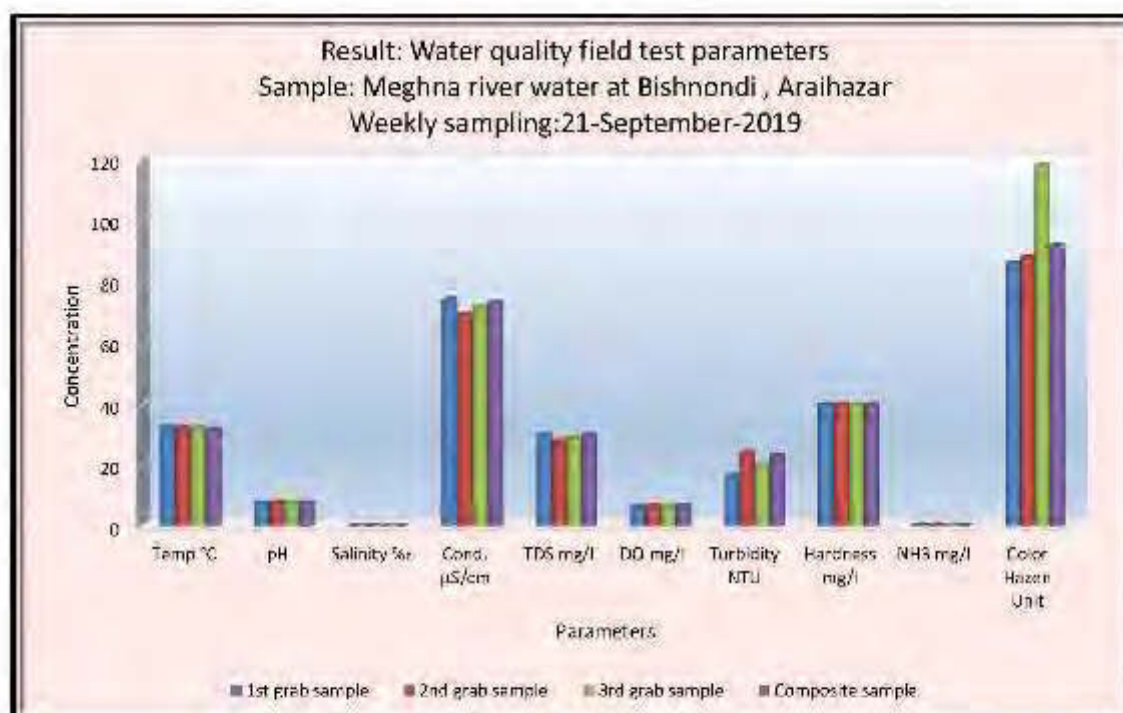
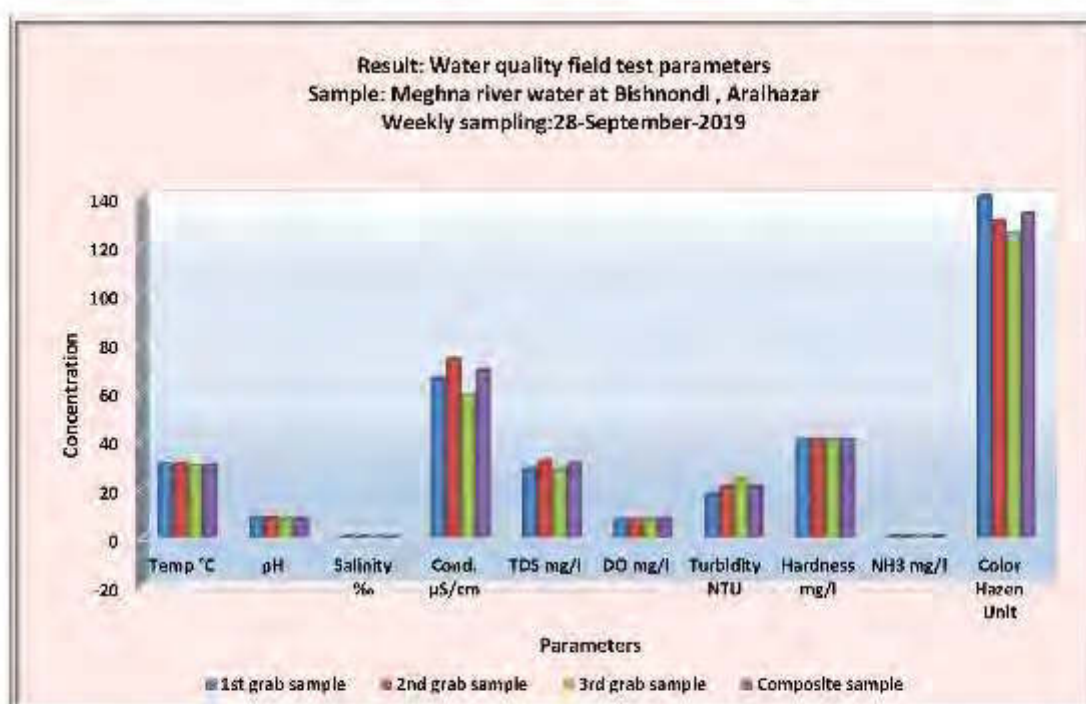

 Figure 0-10/2019 Water quality field test parameters Sample: Meghna river water at Bishnondi, Arahazar Weekly sampling- 21st -September-2019



Table W11/2019: Weekly sampling results; Month: 28/September/2019

Water quality field test parameters (weekly sample-4 th week); Month: September/2019										
Date:28-09-2019						Time: 10-12				
Sample	Temp °C	pH	Salinity ‰	Cond. µS/cm	TDS mg/l	DO mg/l	Turbidity NTU	Hardness mg/l	NH3 mg/l	Color Hazen Unit
1st grab sample (0.5m depth)	30.1	7.7	0.03	65.2	27.7	7.01	17.62	40	0.33	142
2nd grab sample (4m depth)	29.9	7.8	0.03	73	31.3	7.02	20.38	40	0.3	130
3rd grab sample (8m depth)	29.3	7.5	0.03	58.3	27.4	7.08	23.56	40	0.24	125
Composite sample (1st+2nd+3rd grab sample)	29.6	7.5	0.03	68.4	30	7.28	20.61	40	0.28	133
Max	30.1	7.8	0.03	73	31.3	7.08	23.56	40	0.33	142
Min	29.3	7.5	0.03	58.3	27.4	7.01	17.62	40	0.24	125
Avg.	29.74	7.66	0.03	65.56	29.02	7.04	20.548	40	0.288	132.8


 Figure 0-11/2019 Water quality field test parameters Sample: Meghna river water at Bishnondi, Arahazar Weekly sampling- 28th -September-2019



Month: October/2019

Table W12/2019: Weekly sampling results; Month: 12/October/2019

Water quality field test parameters (weekly sample 1 st week); Month: October/2019										
Date: 5- 10-2019						Time: 10-12				
Sample	Temp °C	pH	Salinity ‰	Cond. µS/cm	TDS mg/l	DO mg/l	Turbidity NTU	Hardness mg/l	NH3 mg/l	Color Hazen Unit
1st grab sample (0.5m depth)	30.5	8.2	0.03	87.5	38.1	6.67	22.04	40	0.5	125
2nd grab sample (4m depth)	29.9	7.9	0.03	71	30.3	7.04	24.8	40	0.5	128
3rd grab sample (8m depth)	29.8	7.6	0.03	71.1	30.4	7.23	21.8	40	0.5	121
Composite sample (1st+2nd+3rd grab sample)	30.3	7.4	0.03	70.7	32.5	7.22	20.15	40	0.5	123
Max	30.5	8.2	0.03	87.5	38.1	7.23	24.8	40	0.5	128
Min	29.8	7.6	0.03	71	30.3	6.67	21.8	40	0.5	121
Avg.	30.1	7.9	0.03	77.62	33.44	6.968	23.048	40	0.5	124.6

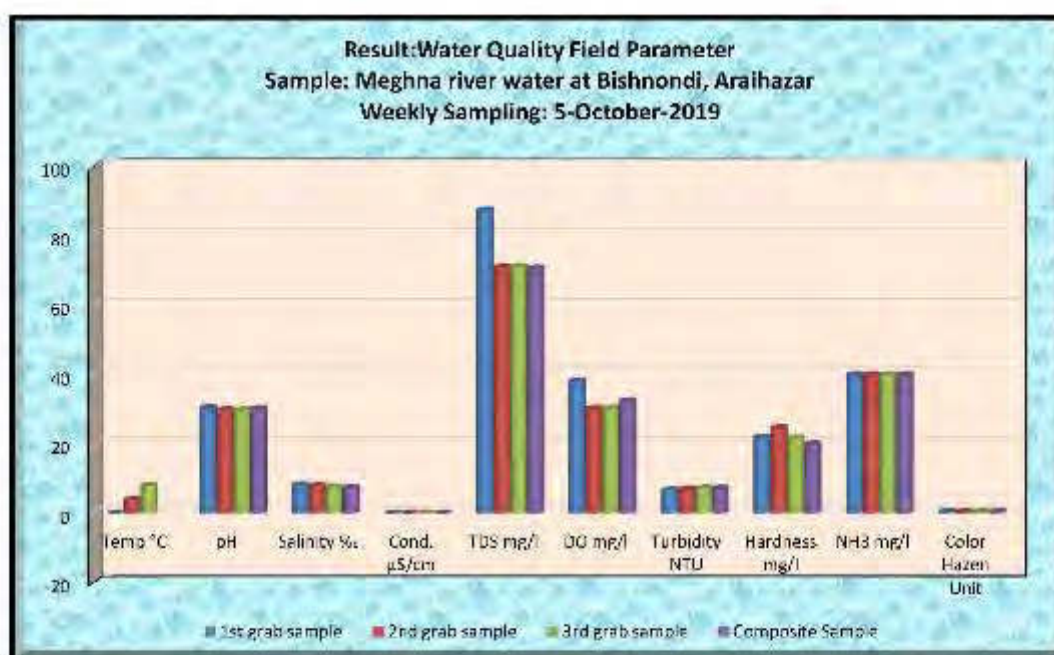

 Figure 0-12/2019 Water quality field test parameters Sample: Meghna river water at Bishnondi, Araihaazar Weekly sampling- 5th-October-2019



Table W13/2019: Weekly sampling results; Month: 12/October/2019

Water quality field test parameters (weekly sample-2 nd week); Month: October/2019										
Date: 12- 10-2019						Time: 10-12				
Sample	Temp °C	pH	Salinity %°	Cond. µS/cm	TDS mg/l	DO mg/l	Turbidity NTU	Hardness mg/l	NH3 mg/l	Color Hazen Unit
1st grab sample (0.5m depth)	31.5	7.7	0.03	77.7	32.2	6.57	18.82	40	0.5	128
2nd grab sample (4m depth)	30.4	7.9	0.03	73.6	31.1	6.67	19.68	40	0.5	129
3rd grab sample (8m depth)	30.1	7.8	0.03	71.2	30.3	6.69	22.85	40	0.5	119
Composite sample (1st+2nd+3rd grab sample)	30.2	7.6	0.03	73.7	31.3	6.83	18.44	40	0.5	121
Max	31.5	7.9	0.03	77.7	32.2	6.69	22.85	40	0.5	129
Min	30.1	7.7	0.03	71.2	30.3	6.57	18.82	40	0.5	119
Avg.	30.72	7.8	0.03	74.28	31.22	6.638	20.604	40	0.5	124.8

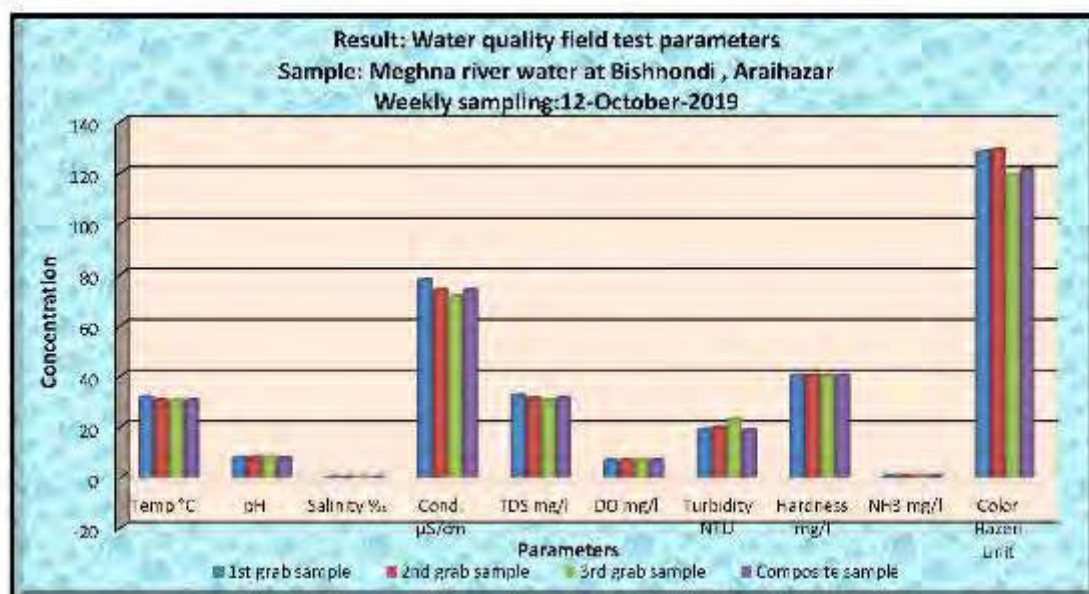

 Figure 0-13/2019 Water quality field test parameters Sample: Meghna river water at Bishnondi, Araihaaz Weekly sampling- 12th -October-2019



Table W14/2019: Weekly sampling results; Month: 19/October/2019

Water quality field test parameters (weekly sample-3 rd week); Month: October/2019										
Date:19- 10-2019						Time: 10-12				
Sample	Temp °C	pH	Salinity ‰	Cond. µS/cm	TDS mg/l	DO mg/l	Turbidity NTU	Hardness mg/l	NH3 mg/l	Color Hazen Unit
1st grab sample (0.5m depth)	32.6	7.5	0.03	72.2	29.3	6.54	23.61	40	0.518	114
2nd grab sample (4m depth)	30.9	7.7	0.03	73	30.6	6.67	23.82	40	0.523	104
3rd grab sample (8m depth)	30.3	7.3	0.03	73.7	31.1	7.08	24.12	40	0.517	98
Composite sample (1st+2nd+3rd grab sample)	30.8	7.5	0.03	72.6	32.6	6.89	22.28	40	0.519	101
Max	32.6	7.7	0.03	73.7	31.1	7.08	24.12	40	0.523	114
Min	30.3	7.3	0.03	72.2	29.3	6.54	23.61	40	0.517	98
Avg.	31.34	7.5	0.03	72.96	30.28	6.782	23.856	40	0.5196	105.6

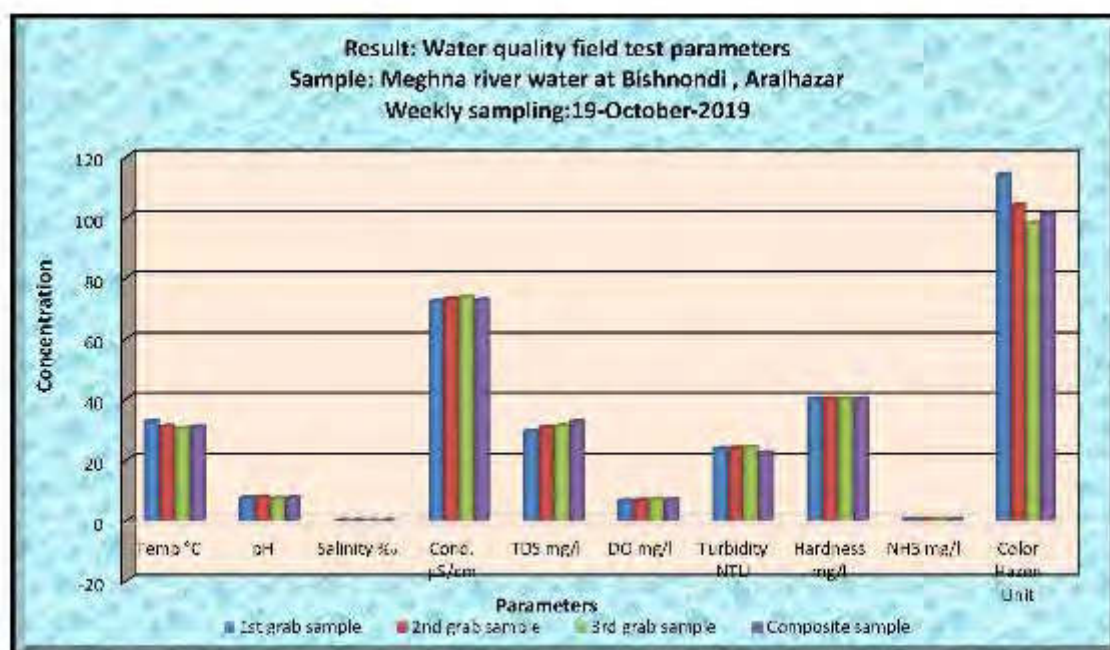
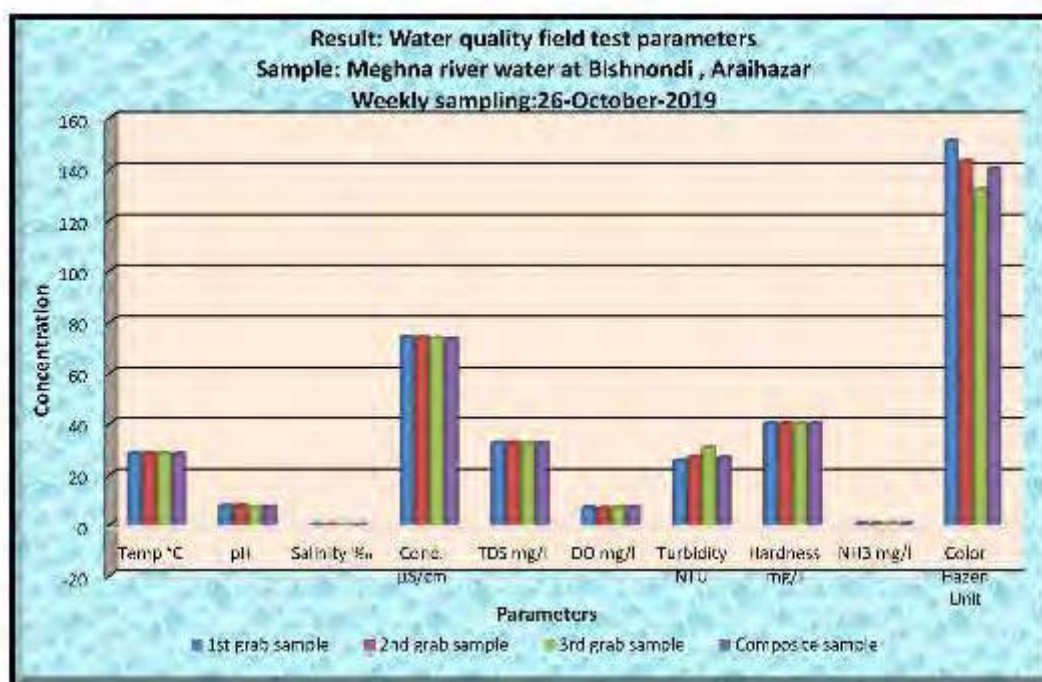

 Figure 0-14/2019 Water quality field test parameters Sample: Meghna river water at Bishnondi, Arai hazar Weekly sampling- 19th -October-2019





Table W15/2019: Weekly sampling results; Month: 26/October/2019

Water quality field test parameters (weekly sample-4 th week); Month: October/2019										
Date: 26-10-2019						Time: 10-12				
Sample	Temp °C	pH	Salinity ‰	Cond. µS/cm	TDS mg/l	DO mg/l	Turbidity NTU	Hardness mg/l	NH3 mg/l	Color Hazen Unit
1st grab sample (0.5m depth)	28.4	7.7	0.03	74	32.5	7.05	25.5	40	0.31	151
2nd grab sample (4m depth)	28.3	7.8	0.03	73.8	32.5	6.76	26.9	40	0.33	143
3rd grab sample (8m depth)	28.3	7.2	0.03	73.6	32.4	7.15	30.59	40	0.29	132
Composite sample (1st+2nd+3rd grab sample)	28.1	7.2	0.03	73.4	32.4	7.24	26.65	40	0.32	140
Max	28.4	7.8	0.03	74	32.5	7.15	30.59	40	0.33	151
Min	28.3	7.2	0.03	73.6	32.4	6.76	25.5	40	0.29	132
Avg.	28.34	7.54	0.03	73.8	32.46	6.974	27.816	40	0.31	141.8


 Figure 0-15/2019 Water quality field test parameters Sample: Meghna river water at Bishnondi, Araihaazar Weekly sampling- 26th -October-2019

J. Waste Management (Hazardous and Non-Hazardous Waste)

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p>M M MOTI MACIONAL DWASA</p> </div> <div style="text-align: center;"> Gandharbpur Water Treatment Plant Construction Waste Manifest Tracking Register </div> <div style="text-align: right;">  <p>中工国际工程股份有限公司 CHINA CAMC ENGINEERING CO., LTD.</p> </div> </div>											
S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah trade mt	31-12-19	Domitory Bin	-	6T-07	Food	General food waste	50	-	Municipality D. Zone	
2	4	4	Rubbish Bin	-	4	Waste	Construction Garbage etc.	200	-	4	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/L								250 kg.			






**Gandharbpur Water Treatment Plant
Construction Waste Manifest Tracking Register**



**中工国际工程股份有限公司
CHINA CAMC ENGINEERING CO., LTD.**



S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah Trade Int.	30-12-19	Dormitory bins	-	GT-07	Food	General food waste	50	-	Municipality D. Dore	-
2	"	"	Rubbish bag	-	"	Construction	General const. waste	200	-	"	-
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/L								250 kgs.			


 Gandharbpur Water Treatment Plant Construction Waste Manifest Tracking Register  中工国际工程股份有限公司 CHINA CAMC ENGINEERING CO., LTD.											
S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah Trade Int.	29-12-19	Domitory bin's	—	GT-07	Food	General food waste	50	—	runa park by D. zone	—
2	U	4	Rubbish bag	—	4	garbage	Construction garbage	150	—	4	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/D								200 kgs.			

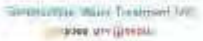

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;"> <p>Gandharbpur Water Treatment SPC </p> </div> <div style="text-align: center;"> <p>Gandharbpur Water Treatment Plant Construction Waste Manifest Tracking Register</p> </div> <div style="text-align: right;">  <p>中工国际工程股份有限公司 CHINA CAMC ENGINEERING CO., LTD.</p> </div> </div>											
S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah Trade Int.	28-12-19	Domestic bins	-	GT-07	Food	General food waste	40	-	Muxwapatla D-Zone	-
2	4	4	Rubbish bag	-	4	Garbage	General construction waste	120	-	4	-
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG								160 kgs.			



S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah Trade Int	26-12-19	Demitory bins	-	GT-07	food	General food waste	50	-	municipality D. zone	
2	U	u	Rubbish bag	-	4	Rubbish	wood, paper, plastic, etc	100	-	4	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/L								150 kg			

 Gandharbpur Water Treatment Plant  中工国际工程股份有限公司 CHINA CAMC ENGINEERING CO., LTD.											
S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah Trade Int.	24-12-19	Domitory bins	-	G.T-07	Food	General food waste	60	-	municipality D-Zone	
2	u	u	Rubbish bin	-	u	Garbage	wood, paper, plastic etc	90	-	u	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/P:								150 wgs			

<p style="text-align: center;">Gandharbpur Water Treatment Plant Construction Waste Manifest Tracking Register</p> <p style="text-align: right;">  中工国际工程股份有限公司 CHINA CAMC ENGINEERING CO., LTD. </p>											
S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah trade lot.	23-12-19	Dormitory bins	—	G.T. 07	food	General food waste	50	—	municipality D. area	
2	LC	"	Rubbish bag	—	"	Paint	Construction waste of paint & oil-slip waste	310	—	"	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG								360 kg			

 Gandharbpur Water Treatment Plant Construction Waste Manifest Tracking Register  中工国际工程股份有限公司 CHINA CAMC ENGINEERING CO., LTD.											
S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah trade Int.	22-12-19	Dormitory bins	-	GT-07	Food	General food waste	30	-	municipality D. area	-
2			Rubbish Bag	-		Package	off cut Plywood, wood.	370	-		-
3				-		Package	tiles, construction work waste	100	-		-
4				-		construction waste	plastic bottle, paper, etc.	40	-		-
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/L								540 kg.			

**Gandharbpur Water Treatment Plant
 Construction Waste Manifest Tracking Register**



S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	*		
1	Abdullahi trade Co.	21-12-19	Decorative bins	-	G-T-07	Food	General food waste	40	-	municipality D. area	-
2	"	"	Rubbish bag	-	"	Garbage	Construction garbage	110	-	"	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/£								150 kg			



**Gandharbpur Water Treatment Plant
Construction Waste Manifest Tracking Register**



**中工国际工程股份有限公司
CHINA CAMC ENGINEERING CO., LTD.**

S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah trade Int.	20/12/19	Departmentary bins	—	G.T.-7	Food	General food waste	30	—	municipality D. areas.	—
2			Rubbish, Bag.	—		Building	General construction garbage	130	—		—
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/ℓ								160 kgs			





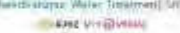

**Gandharbpur Water Treatment Plant
 Construction Waste Manifest Tracking Register**



**中工国际工程股份有限公司
 CHINA CAMC ENGINEERING CO., LTD.**

S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah Trade Ent.	19-12-19	Domesticy bins	—	G.T-07	food	General food waste	30	—	municipality D. area.	
2	11	4	Rubbish Bay	—	41	ambage	Tiles, wood	350	—	4	
3	4	4	4	—	4	4	General construct ion. waste	120	—	4	
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/								500 kgs.			

 Gandharbpur Water Treatment Plant Construction Waste Manifest Tracking Register  中工国际工程股份有限公司 CHINA CAMC ENGINEERING CO., LTD.											
S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah Tande Int.	18-12-19	Dormitory bins	—	G.T. -07	Food	Cerebral food waste	30	—	municipality D. area.	
2	"	"	Rubbish Bay	—	"	Garbage	Tiles	200	—	"	
3	"	"	"	—	"	"	Panel cutoff wood, plastic etc.	150	—	"	
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/L								380			

 Gandharbpur Water Treatment Plant  中工国际工程股份有限公司 CHINA CAMC ENGINEERING CO., LTD.											
S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah Trade Int.	17-12-19	Dormitory bins	—	G.T.-07	Food	Cooked food waste	70	—	municipality D. areas	
2	"	"	Rubbish by boy	—	"	Waste	Crema and comm. garbage	300	—	"	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/▶								370			





**Gandharbpur Water Treatment Plant
Construction Waste Manifest Tracking Register**






**中工国际工程股份有限公司
CHINA CAMC ENGINEERING CO., LTD.**

S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah Trade Int.	15-12-19	GWTP. Demito bins	—	G.T-07	Food	Cornmeal food waste.	40	—	municipality D. area	
2	11	4	Rubbish bag	—	4	Construction	timber, plastic bottle etc.	200	—	4	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/L								240			


Gandharbpur Water Treatment Plant Construction Waste Manifest Tracking Register  中工国际工程股份有限公司 CHINA CAMC ENGINEERING CO., LTD.											
S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah Trade International	14-12-19	G.W.T.P. Temp. Dormitory bins	—	G.T-07	Food	General food waste	30	—	municipality determined place	
2	"	"	Rubbish box	—	"	Rubbage	pannel w/off. timber, etc	200	—	"	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/L								230 kgs.			


Gandharbpur Water Treatment Plant Construction Waste Manifest Tracking Register  中工国际工程股份有限公司 CHINA CAMC ENGINEERING CO., LTD.											
S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah Trade International	12-12-19	Dormitory waste bin	—	G.T-07	Food	General food waste	40	—	municipality determined place	
2	"	"	Rubbish bag	—	"	Garbage	Tiles, wood, plaster, panel cut pieces	160	—	"	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/L								200			

 Gandharbpur Water Treatment Plant Construction Waste Manifest Tracking Register  中工国际工程股份有限公司 CHINA CAMC ENGINEERING CO., LTD.											
S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah Trade International	13-12-12	Domitory waste bins.	-	B.T.07	Food	General food waste	50	-	municipality determined place.	
2	ii	ii	Rubbish bag	-	ii	Garbage	tiles, timber, plastic, etc.	200	-	ii	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/L								250			

Gandharbpur Water Treatment Plant Construction Waste Manifest Tracking Register  中工国际工程股份有限公司 CHINA CAMC ENGINEERING CO., LTD.											
S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah Trade International	11-12-19	Demitory waste bins.	-	G.T-07	Food	Chemical food Garbage, etc.	30	-	municipality determined place.	
2	"	"	Rubbish bag	-	"	Garbage	plastic, wood, paper, etc.	250	-	"	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/L								280			

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;"> <p>Gandharbpur Water Treatment Plant</p> <p>中工国际工程股份有限公司 CHINA CAMC ENGINEERING CO., LTD.</p> </div> <div style="text-align: center;"> <p>Gandharbpur Water Treatment Plant</p> <p>Construction Waste Manifest Tracking Register</p> </div> <div style="text-align: right;"> </div> </div>											
S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah Trade International	10-12-12	T. Dormitory waste bin's	-	GJ T-07	Food	General food garbage	25	-	municipality determined place	
2	"	"	Rubbish bay	-	"	Garbage	wood, files, bottle plastic, etc.	200	-	"	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/L								225			

Gandharbpur Water Treatment Plant Construction Waste Manifest Tracking Register  中工国际工程股份有限公司 CHINA CAMC ENGINEERING CO., LTD.											
S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah trade International.	9-12-19	camel demahy waste bin	-	G.T. -07	food	General food waste: bottle, etc.	30	-	municipality determined place.	
2	"	"	Site rubbish bag	-	"	Rubbage	wood, tiles offed, paper, etc.	150	-	"	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/L								180			

Gandharbpur Water Treatment Plant Construction Waste Manifest Tracking Register  中工国际工程股份有限公司 CHINA CAMC ENGINEERING CO., LTD.											
S.N.	Company	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Abdullah Trade International	08-12-19	Camce & Demolish waste bin	-	B.T.-07	Food	General food waste	80	-	municipality determined place	
2		"	Site rubbish Bay	-	"	Wood	cut piece of wood plywood etc.	100	-	"	
3		"	"	-	"	General waste	plastic, bottle, paper, etc.	50	-	"	
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
TOTAL KG/L								230			

Gandharbpur Water Treatment Plant Hazardous Waste Manifest Tracking Register DECEMBER | 2019

S.N.	COMPANY	DATE OF ISSUE	WASTE COLLECTED FROM	MANIFEST NO.	VEHICLE NO.	WASTE TYPE	DESCRIPTION OF WASTE	QUANTITY		WASTE DISPOSAL LOCATION	STATUS
								KG	L		
1	Menarath (khan power tech)	02/12/19	Menard Oil storage area		Covered van	Waste oil	Waste oil	0.000	10 0	Their own storage (out side of plant)	
2								0.000	0		
3								0.000	0		
4								0.000	0		
5								0.000	0		
6								0.000	0		
7								0.000	0		
8								0.000	0		
9								0.000	0		
10								0.000	0		
TOTAL KG/L								10 0.00	0		

SAUW Semi-Environmental Monitoring Report Review – Information Log

Instructions: Provide information based on SEMR submitted by Project Management Unit (PMU). This log sheet will serve as record of the review findings, comments, and/or further actions. A copy of the SEMR log sheet should be (i) provided to PMU for their record; (ii) attached to the SEMR to be disclosed on ADB website; (iii) used as reference for review of next SEMRs; and (iv) inputted in the SARD Safeguards Compliance Tracking System.

Project title:	BAN: Dhaka Environmentally Sustainable Water Supply Project		
Loan Number:	3051	Project Number:	42173-013
Overall Project and Objectives	<p>Dhaka Environmentally Sustainable Water Supply Project (DESWSP) is the part of Water Supply Sector Development Program in Dhaka Metropolitan Area and jointly financed by Asian Development Bank (ADB) and the Government of Bangladesh (GoB). The aim of the Project is to improve the water supply network of Dhaka city by forming District Metering Areas (DMAs); rehabilitation of water lines; and replacement of service connections.</p> <p>The objective of the project is to improve health and quality of life and to reduce scarcity of drinking water in the project area by providing access to adequate, sustainable safe water supply facilities. Specific task of the project is to improve the overall distribution network in the project area to ensure 24/7 water supply line with pressure 1 bar (10m). Also, the water supply system will run with system lossless than 15% in the DMA areas. Each DMA will be hydraulically isolated from other DMA. Reliable source of safe drinking water should be established in the DMA.</p>		
Approved Categorization	X	Category A	Category C
		Category B	FI
Loan Effectivity Date:	23 February 2015	Frequency of Reporting	Semi-annual
Project Officer	Ms. Momoko Tada	Project Analyst	Mr. Felix Emmanuel Golez
Reporting Year	2019	Coverage Period	1 st SEMR of the year
		X	2 nd SEMR of the year
Date of PMU submission to ADB	4 June 2020 9 July 2020 (Revised)	Date of ADB's feedback/comment to PMU	17 June 2020 17 July 2020

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
A. Project Safeguards Team (check loan agreement and PAM requirements)				
PMU ¹	Project Safeguards Team	Complied	None	
PIU ²		E-mail address and contact numbers provided in the report.		
Consultants	PMU: Md. Saidur Rahman PIU: Md. Kauser Hossen Md. Shakil Kawser			
Others (e.g. auditor, external monitoring team, etc)	Consultant-Environmental Inspector: Parthoprotim Paul			

Commented [A1]: PMU to provide detailed response. This log sheet will be attached to the SEMR and disclosed on ADB website.

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¹ PMU – project management unit

² PIU – project implementation unit (For DWSNIP – project coordination units are PIUs)

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
B. Overall Project and Subproject Description (summarize number and type of packages) ³				
Number of Packages with civil works (check if consistent with latest procurement plan)	The provided description of the components of the following: -Package ICB 2.7 -Package 1 -Package 2 -Package 3.1 -Package 3.2 -NCB Package 4.1	Complied	None	
Number of DB/DBO packages and status (see footnote 3)	Four DBO packages (i) P1; (ii) P2; (iii) P3.1; and (iv) P3.2. P1-contract awarded to Suez of France. Contractor mobilized mid May 2019. Other packages are not yet awarded.	Complied	None	
Number of civil works packages and status (see footnote 3)	One civil works contract (ICB 2.7) -ongoing works for DMAs 615 and 616. Information provided in Para 16- Physical progress of ICB 2.7 as of December 2019. Status of NCB Package 4.1 discussed in section XV.	Complied	None	
IEEs cleared for awarded packages?	Draft and updated IEEs of ICB 2.7 were reviewed and cleared by ADB.	Complied	None	

Commented [A1]: PMU to provide detailed response. This log sheet will be attached to the SEMR and disclosed on ADB website.

³ DB/DBO – design-build or design, build, and operate or where contractor will finalize the detailed engineering design; civil works contract – enough details of the package is known and used as basis for bid/contract's Technical Specification

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
	<p>Draft IEE for Package 1 during loan processing cleared and disclosed in ADB website</p> <p>Updated IEE of Package 1 submitted and disclosed in ADB website.</p>			
Safeguard documents disclosed on project website?	<p>Updated IEEs of ICB 2.7 and draft and updated IEEs of all packages are disclosed in ADB website.</p> <p>Most of the safeguard documents are listed in the PMU's website (www. DESWSP-DWASA.com)</p>	Complied	<p>Further action and for continuous monitoring and implementation:</p> <p><i>PMU to ensure that all safeguard reports -updated and final IEEs and SEMRs can be accessed from the Project's website.</i></p>	
SEMR information on package-wise implementation phase (bidding, on-going, construction, completed, under operation, others)	<p>Information provided in the report</p> <p>Part I (Section V): Status of project implementation of ICB 2.7</p> <p>Part I (Section XV): Status of the project implementation of DTWs for NCB Package 4.1</p> <p>Part II (Table 1.1):Status of project implementation of Packages 1, 2, 3.1 and 3.2</p>	Complied	None	
C. Status of compliance with statutory clearances (check IEE for the complete list, summarize the findings for each package – obtained/under application and if obtained, specify validity period)				
Environmental Clearance (EC)	Appendix E-Environmental Clearances. Renewal of Environmental Clearance Certificate. Valid unit 10 December 2020	Complied	None	

Commented [A1]: PMU to provide detailed response. This log sheet will be attached to the SEMR and disclosed on ADB website.

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
Forest Clearance	List of no objection certificate provided in Part II, Table II.4	Complied	Further action: <i>PMU to ensure that the required permits/clearances are secured prior to civil works.</i>	
No Objection Certificate/Letter				
Site location clearance				
Permit/Consent to Construct (or equivalent)				
Permit/Consent to Operate (or equivalent)				
Road-cutting permit				
Utilities shifting permit				
Tree-cutting permit				
Others (specify)				
D. Status of Compliance with loan covenants (verify items in SEMR with the project's loan agreement)				
Procurement of goods, works and consulting services (Schedule 4, Item 7)	Information provided in Part II, Table II.3	Complied	None	
Safeguards environment (Schedule 5, Item 5)				
Human and financial resources to implement safeguards requirements (Schedule 5, Item 9)				
Safeguards-related provisions in bidding documents and works contracts (Schedule 5, Item 10)				
Safeguards monitoring and reporting (Schedule 5, Item 11)				
Prohibited list of investments (Schedule 5, Item 12)				
Labor standards, health and safety (Schedule 5, Item 13)				
E. Contractors Compliance with Environmental Safeguards Requirements				
Appointment of Environment, Health and Safety (HSE) and/or nodal person	Part II, Table II.1 Information on Safeguard Team. Contractor: Nwokedi Uchefuna- HSE Manager GWTSNC	Complied	None	-
Submission of site-specific EMPs	On-going compliance	On-going compliance	PMU to ensure that the contractors should submit updated IEE based on final detailed design	-

Commented [A1]: PMU to provide detailed response. This log sheet will be attached to the SEMR and disclosed on ADB website.

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
Submission of SEMP implementation report (<i>specify in comments frequency – daily, weekly, monthly or quarterly basis</i>)	On-going compliance	On-going compliance	PMU to ensure that the contractors should submit updated IEE based on final detailed design	-
Site verification by PMU, PIU, or consultants (<i>verification report should be attached to the SEMR</i>)	Part I (Section XVI)-EHS Inspection reports, Water spray details. Part II Appendix A: Findings of P1 site inspection. Appendix F: Air Quality and Dust suppression Appendix G: Noise and Vibration Appendix H: Water Quality	Complied	None	-
SEMR compliance matrix on mitigation measures implementation (matrixes are based on approved SEMP)	Part I, Section XII. Discussion on the compliance with EMP of ICB 2.7 Part II, Section III-Information on the Progress and Quality control of Package 1	Complied	None For the submission of the next SEMR, kindly use the matrix of the approved SEMP in the discussion on the compliance of EMP implementation.	
Other information				-
F. Environmental Monitoring based on EMP				
Rationale	Part II, Section II-Environmental Monitoring work coordination	Complied	None	
Parameters to be monitored are commensurate to the impacts, mitigation measures, and project/subproject/package	Part II, Section IV-Environmental Management and Monitoring	Complied	None	
Sampling locations identified and appropriate	Reports for the monitoring of water quality, and noise vibration provided.		<i>Further action: PMU to ensure that baseline air quality monitoring should be done prior to civil works.</i>	
Sampling frequency identified and appropriate				
Sampling collection and analysis are in accordance with internationally-accepted practices	No air quality measurements were taken but record of dust suppression (water spraying at the work sites) was provided in Appendix F			
Standards and performance indicators are compliant with ADB				

Commented [A1]: PMU to provide detailed response. This log sheet will be attached to the SEMR and disclosed on ADB website.

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
SPS requirements ⁴ (provide justification if less stringent standards are used)				
G. Environmental monitoring results (narrative based on presented results)				
Visual inspection (refer to EMP tables in the IEE where visual inspections are required to determine if there are environmental impacts)	Information provided. It was mentioned that there were no air quality measurements were done	On-going compliance	PMU to ensure that baseline air quality monitoring should be done prior to civil works. Response provided by PMU. Further action: PMU should ensure that the contractor implements the monitoring measures in the SEMR including the measurement of air quality. For the submission of the next monitoring report (January-June 2020), include the update/status of the monitoring of air quality parameters.	The contractor did not implement air quality monitoring although being reminded several times (para 71 Part B)
Air quality results				
Water quality results				
Noise level results				
Others				
H. Consultations and/or FGDs during the reporting period				
Number	Information provided. -Section K for the DTWs. -No. of Consultation meetings done for DTWs: 4 -Part II, Appendix B Site meetings	On-going compliance	PMU to ensure that meaningful consultations should be continuously conducted during project implementation. Action required: DONE	Information is in Appendix B, Part B Presented in Table IV.1.
Reason/s for consultations/FGDs	Information disclosure		kindly indicate the information on the number of female participants in the consultation meetings, FGDs.	
Number of participants	Information provided in the report.			
Number of female participants	No information provided			
I. Trainings, Workshops, Seminars during the reporting period				

Commented [A1]: PMU to provide detailed response. This log sheet will be attached to the SEMR and disclosed on ADB website.

⁴ ADB SPS (Appendix 1 para 33) requires projects to apply pollution prevention and control technologies and practices consistent with international good practices as reflected in internationally recognized standards such as the World Bank Group's Environmental, Health and Safety Guidelines (<https://www.ifc.org/ehsguidelines>). These standards contain performance levels and measures that are normally acceptable and applicable to projects. When host country regulations differ from these levels and measures, the borrower/client will achieve whichever is more stringent. If less stringent levels or measures are appropriate in view of specific project circumstances, the borrower/client will provide full and detailed justification for any proposed alternatives that are consistent with the requirements presented ADB SPS.

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
Number	Part II, Section I-Training, Workshops, Seminars	On-going compliance	Action required: DONE Kindly indicate the information on the number of female participants in the trainings.	<u>Information presented in para 79.</u> <u>Presented in Table IV.2</u>
Topics				
Number of participants	No of trainings: 2 (October 2019 and December 2019)			
	Topics discussed: occupational safety			
	In the revised report, Table IV.2 provides the total number of participants			
	Appendix C Attendance sheets of the trainings			
Number of female participants	No information provided-number of female participants provided in Table IV.2			
J. Grievance Redress Mechanism				
GRM per PAM or IEE/EARF established	The first meeting of the GRC took place on 31 October 2019. 14 grievances and complaints have been discussed and addressed. The minutes of meeting have not been signed by PD yet and were not attached to this report.	No information provided on the GRM and GRC of the project.	Action required: DONE Include the discussion of the approved GRM and GRC as per PAM or IEE.	<u>Included in Section II. D. Grievance Redress Mechanism, Part B</u>
GRM notified via publication or notice boards	No information provided	No information provided	Action required: DONE Provide as an attachment the official notification of the GRM and GRC	<u>Attached in Section II. D. Para 55 of Part B</u>
GRM members identified	No information provided	No information provided	Action required: DONE Include in the discussion the names of the GRC.	<u>Attached in Section II. D. Para 55 of Part B</u>
GRM members have capacity to address project-related complaints (<i>detailed information on capacity development of GRM members such as trainings, workshops, briefings, etc should be attached in the SEMR</i>)	No information provided	No information provided	Action required: DONE Include the required information in the report.	<u>Included in Section II. D. Para 51 Grievance Redress Mechanism, Part B</u>

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Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
Number of meetings conducted (attach minutes of the meeting)	It was mentioned that the first meeting was done on 31 October 2019.	Provide the following as an attachment: minutes of the meeting, attendance sheet	Action required: DONE Provide the following as an attachment: minutes of the meeting, attendance sheet	Information is in Appendix D, Part B
K. Complaints Received (detailed information on nature of complaints, summary and status of resolution)				
Number of complaints	It was mentioned in the report that 14 grievances/complaints received	Complied In the revised report sent on July 2020, 15 grievances/complaints received during the reporting period.		
Nature (provide summary of issues/concerns)	No information provided	Action required: Provide the summary of the issues/concerns/grievances filed during the reporting period	Action required: DONE Provide the summary of the issues/concerns/grievances filed during the reporting period	Information is in Appendix D, Part B (Bangla and English version)
Status of resolution	No information provided	Action required: Provide the status of resolution for the grievances/complaints during the reporting period	Action required: DONE Provide the status of resolution for the grievances/complaints during the reporting period Further action: For the submission of the next SEMR covering period January- June 2020, provide the status of the resolution of unresolved grievances/complaints – pending for compensation	Information is in Appendix D, Part B
L. Summary of Issues and Corrective Actions				
Major issues/concerns (specify)	It was mentioned in the report that no major issues identified.	On-going compliance	Further action required: PMU and DMSC to continuously monitor the strict implementation of environmental mitigation measures and health and safety measures during civil works.	

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Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
Corrective Action to be implemented, timeline, responsible person/s, and budget are clearly specified	It was mentioned in the report that during this period, corrective actions are not required.	On-going compliance		
M. Status of Corrective Action Plan from Previous Reporting Period (list all and provide status)				
	It was mentioned in the report that no major issues identified.			
N. Appendixes				
Photos included?	Yes			
Summary of consultations included?	Yes	Indicate the number of female participants in the consultation meetings.	Kindly indicate the information on the number of female participants in the consultation meetings, FGDs. DONE	
Copies of environmental clearances and permits included?	Yes	Complied	None	
Site EMPs (attach sample?)	No	Provide sample EMPs prepared by the contractor of Package 1.	Provide sample site-EMPs prepared by the contractor of Package 1.	
Checklists?	Yes	Complied	None	
Others	Copies of noise and water quality monitoring.	Complied	None Further action: It was observed that the field survey forms were not signed by DWASA PMU representative. PMU to closely supervise/monitor the environment quality monitoring.	
O. Review and clearance for disclosure- NOT CLEARED for DISCLOSURE				
The submitted report requires revisions prior to clearance and disclosure in ADB website. PMU is kindly requested to (i) submit the revised report in track change based on the required actions in the SEMR log_sheet or highlight in yellow the added information; and (ii) submit the SEMR log_sheet with PMU's response.				
Summary of Required Actions:				

Commented [A1]: PMU to provide detailed response. This log sheet will be attached to the SEMR and disclosed on ADB website.

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
1. <u>Consultations and/or FGD.</u>	Provide the number of female participants.	- DONE		
2. <u>Trainings, Workshops, seminars.</u>	Provide the number of female participants.	.. DONE		
3. <u>Grievance Redress Mechanism.</u>	(i) Include the discussion of the approved Grievance Redress Mechanism (GRM) and Grievance Redress Committee (GRC) as per PAM or IEE; (ii) Provide as an attachment the official notification GRM and GRC; (iii) Include in the discussion the names of the GRC; (iv) Provide as an attachment the minutes of the GRC meeting and attendance sheet.	- DONE		
4. <u>Complaints received.</u>	It was mentioned in the report that 14 grievance/complaints were received during the reporting period. (i) Provide the summary of the issues/concerns/grievances filed during the reporting period; and (ii) Provide the status of resolution for the grievances/complaints during the reporting period.	- On-going compliance	- On-going compliance	- For the submission of the next SEMR covering period January- June 2020, provide the status of the resolution of unresolved grievances/complaints – pending for compensation
5. <u>Baseline air quality monitoring.</u>	Provide an explanation on why there was no air quality monitoring during the reporting period.	- On-going compliance	- On-going compliance	- For the submission of the next monitoring report (January-June 2020), include the update/status of the monitoring of air quality parameters.
Reference				
Status/Remarks				
			1. Recorded as submitted	
			2. Send comments to PMU for response to comments	
			3. Revised report cleared for disclosure in the ADB website	

Commented [A1]: PMU to provide detailed response. This log sheet will be attached to the SEMR and disclosed on ADB website.