# WATER QUALITY ANALYSIS REPORT AT DIFFERENT LOCATIONS OF NEW TOWN KOLKATA PROJECT, DURING MONTH JUNE' 2022

### ACTION AREA – I (JUNE' 2022)

#### GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERING OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I

#### ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: ACTION AREA -I, ZONE - I

Sub.: Water Testing (Physico-chemical , Chemical & Bacteriological) **Date of Testing: 01.06.2022** 

Sl. No	Characteristic	Requirement (Acceptable	Permissible Limit in the absence of			SOUI	RCE (PHE SUF	PPLY)			
1,0		Limit) (IS 10500-2012)	alternate Source			ZONE - I					
		(15 10300-2012)	(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	AD - 17	AA- 05	AC-107	AC - 50	AC-70	
A. P	hysico-chemical Test Results:		<u> </u>		<u> </u>						
1	pH Value.	6.5-8.5	6.5-8.5	7.88	7.90	7.91	7.94	7.95	7.87	7.89	
2	Temperature (degree C)			25.3	25.5	25.8	25.6	25.4	25.4	25.2	
3	Total Dissolved Solid (mg/L)	500.00	2000.00	173.7	173.8	173.7	173.8	173.9	171.8	173.7	
4	Turbidity (NTU)	1.00	5.00	1.25	1.09	0.95	0.71	0.75	1.23	1.15	
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.4	0.3	0.2	0.3	0.3	0.4	
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	
В. (	Chemical Test Results:	·	1								
7	Total Hardness (mg/L)	200.00	600.00	139.44	139.44	135.46	139.44	139.44	139.44	135.46	
8	Total Alkalinity (mg/L)	200.00	600.00	123.54	123.54	123.54	123.54	123.54	123.54	123.54	
9	Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
10	Chloride (mg/L)	250.00	1000.00	22.46	22.46	22.46	22.46	22.46	22.46	22.46	
C.B	acteriological Test Results :	1	I L		1		L	L	L	l .	
11	Total Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF	NF	NF	NF	
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF	NF	NF	NF	

O.H.R. - OVER HEAD RESERVOIR, N.F - NOT FOUND

Sd/-Chemist & Bacteriologist NTKD-I, P.H.E. Dte.

Sd/-**Assistant Engineer** NTKD - I P.H.E. Dte.

#### TEST REPORT: <u>ACTION AREA –I</u>

Sub.: Water Testing (Physico-Chemical & Chemical)

Date of Testing: 02.06.2022

Sl. No	Characteristic	Requirement (Acceptable	Permissible Limit		SOUR	CE (PHE SUPPLY)	
		Limit) (IS 10500-2012)	in the absence of alternate Source (IS 10500-2012)	нірсо	ALO EYE CARE	NABADIGANTA SWASTHYA PARISHEBA PVT LTD	DARADIA PAIN HOSPITAL
A. Ph	ysico-chemical Test Results:					1	
1	pH Value.	6.5-8.5	6.5-8.5	7.61	7.68	7.72	7.74
2	Temperature(degree C)			26.2	26.2	26.2	26.2
3	Total Dissolved Solid (mg/L)	500.00	2000.00	181.7	179.7	179.3	178.3
4	Turbidity (NTU)	1.00	5.00	1.57	1.47	1.62	1.43
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.1	0.3	0.4	0.4
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Cl	nemical Test Results:		1		I	1	
7	Total Hardness (mg/L)	200.00	600.00	135.46	131.47	135.46	135.46
8	Total Alkalinity (mg/L)	200.00	600.00	123.54	123.54	123.54	123.54

Sd/-Chemist NTKD - I P.H.E. Dte.

Sd/-Assistant Engineer NTKD - I P.H.E. Dte.

#### DIRECTORATE OF PUBLIC HEALTH ENGINEERING

## OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: ACTION AREA - I, ZONE - VI

Sub.: Water Testing (Physico-chemical & Chemical)

Date of Testing: 06.06.2022

Sl.	Characteristic	Requirement	Permissible			SOURCE (PH	E SUPPLY)		
No		(Acceptable Limit)	Limit in the absence			ZONE	- VI		
		(IS 10500-2012)	of alternate Source (IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	NBCC	CE /1/A/97	CE -1/B/84	CE-197
	A. Physico - chemical T	Test Results:							
1	pH Value.	6.5-8.5	6.5-8.5	7.73	7.75	7.78	7.79	7.80	7.81
2	Temperature(degree C)			25.8	25.7	25.7	25.5	25.2	25.3
3	Total Dissolved Solid (mg/L)	500.00	2000.00	164.3	164.1	163.5	163.6	163.3	163.3
4	Turbidity (NTU)	1.00	5.00	1.17	0.98	1.26	0.86	1.09	1.13
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.2	0.1	0.1	0.1	0.1
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	B. Chemical Test Resul	ts:							
7	Total Hardness (mg/L)	200.00	600.00	135.46	135.46	135.46	135.46	135.46	135.46
8	Total Alkalinity (mg/L)	200.00	600.00	115.02	115.02	115.02	115.02	115.02	115.02

O.H.R. - OVER HEAD RESERVOIR,

Sd/-Chemist NTKD - I P.H.E. Dte.

Sd/-Assistant Engineer NTKD - I P.H.E. Dte.

#### ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: <u>AA – I, ZONE – III</u>

Sub.: Water Testing (Physico-chemical & Chemical)

Sl. No	Characteristic	Requirement (Acceptable	Permissible Limit in the absence of			SOUR	CE (PHE SUPPL	<b>Y</b> )		
		Limit)	alternate Source				ZONE - III			
		(IS 10500-2012)	(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R	A/1/C/28	NKDA Off.	AL/1/C/40	AI/153/16	AI-18
	A. Physico-chemic	al Test Results :	<u> </u>	O.H.K.	O.II.K					
1	pH Value.	6.5-8.5	6.5-8.5	7.64	7.70	7.70	7.58	7.61	7.71	7.69
2	Temperature(degree C)			26.6	26.2	26.2	26.0	26.1	25.8	25.8
3	Total Dissolved Solid (mg/L)	500.00	2000.00	169.5	165.2	166.1	168.1	165.4	165.3	168.0
4	Turbidity, (NTU)	1.00	5.00	0.88	0.98	1.30	1.61	1.39	1.45	1.55
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.4	0.4	0.3	0.2	0.1	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	B. Chemical Test 1	Results:					•			
7	Total Hardness, (mg/L)	200.00	600.00	139.44	139.44	139.44	143.42	139.44	139.44	143.42
8	Total Alkalinity, (mg/L)	200.00	600.00	115.02	115.02	115.02	119.28	115.02	115.02	119.28

O.H.R. - OVER HEAD RESERVOIR, N.F. - NOT FOUND

Sd/-Chemist NTKD-I, P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte. Sd/-Executive Engineer NTKD - I P.H.E. Dte.

**Date of Testing: 06.06.2022** 

#### GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERING

### OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I

NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: AA - I, ZONE - X

Sub.: Water Testing (Physico-Chemical & Chemical)

Date of Testing: 07.06.2022

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of		SOURCE (I	PHE SUPPLY)	
110		(IS 10500-2012)	alternate Source		ZO	NE - X	
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	GREEN FIELD – 4D	NATIONAL CANCER INSTITUTE CHITTARANJAN
A. Phy	ysico-chemical Test Results:						
1	pH Value.	6.5-8.5	6.5-8.5	7.28	7.37	7.32	7.34
2	Temperature(degree C)			26.6	26.7	26.7	26.7
3	Total Dissolved Solid(mg/L)	500.00	2000.00	167.6	166.8	166.4	166.2
4	Turbidity, (NTU)	1.00	5.00	1.35	1.36	1.70	1.43
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.4	0.6	0.4	0.4
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Ch	emical Test Results:						
7	Total Hardness, (mg/L)	200.00	600.00	139.44	139.44	143.42	143.42
8	Total Alkalinity, (mg/L)	200.00	600.00	119.28	119.28	123.54	123.54

O.H.R. - OVER HEAD RESERVOIR,

Sd/-Chemist NTKD - I P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte.

TEST REPORT: <u>AA – I, ZONE – IX</u>

Sub.: Water Testing (Physico-Chemical & Chemical)

Date of Testing: 07.06.2022

Sl.	G1	Requirement	Permissible Limit		SO	URCE (PHE SUPP	LY)	
No	Characteristic	(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source			ZONE - IX		
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	DAWAT RESTAURANT	RISHI TOWER	SASTA SUNDAR INNOVATION TOWER
A. P	Physico-chemical Test Results:							
1	pH Value.	6.5-8.5	6.5-8.5	7.26	7.29	7.35	7.38	7.42
2	Temperature(degree C)			26.6	26.6	26.5	26.5	26.5
3	Total Dissolved Solid. (mg/L)	500.00	2000.00	166.7	164.9	165.8	165.0	165.9
4	Turbidity, (NTU)	1.00	5.00	1.09	1.04	1.10	1.07	1.16
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.4	0.6	0.4	0.4	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (	Chemical Test Results:			•				•
7	Total Hardness, (mg/L)	200.00	600.00	143.42	139.44	139.44	139.44	139.44
8	Total Alkalinity, (mg/L)	200.00	600.00	123.54	119.28	119.28	123.54	119.28

O.H.R. - OVER HEAD RESERVOIR,

Sd/-Chemist NTKD - I P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte.

#### GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERING OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I

#### ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA - 700 156

#### TEST REPORT: ACTION AREA -I, ZONE - IV

Sub.: Water Testing (Physico-Chemical, Chemical & Bacteriological)

**Date of Testing: 08.06.2022** SI. Characteristic Requirement Permissible Limit SOURCE (PHE SUPPLY) No (Acceptable Limit) in the absence of (IS 10500-2012) ZONE - IV alternate Source (IS 10500-2012) INLET OF **OUTLET OF** BD-103 BE-17 BB-50 BC-105 BB-109 **BB-114** SENIOR **CITIZEN** O.H.R. O.H.R. **PARK** A. Physico-chemical Test Results: pH Value. 7.56 7.68 7.72 7.75 7.77 7.81 7.82 7.78 7.72 6.5-8.5 6.5-8.5 2 25.7 25.6 24.9 24.9 25.1 25.1 **Temperature**(degree C) 26.1 25.6 25.6 Total Dissolved Solid (mg/L) 3 163.8 161.3 161.6 161.1 160.7 159.9 160.4 161.5 162.8 500.00 2000.00 4 Turbidity (NTU) 1.30 1.28 1.64 1.26 1.62 1.37 1.16 1.45 1.39 1.00 5.00 Residual Free Chlorine (mg/L) 5 0.4 0.6 0.1 0.2 0.4 0.3 0.2 0.3 0.4 0.20 1.00 Agreeable Agreeable Agreeable Agreeable Agreeable Odour Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable **B.** Chemical Test Results: Total Hardness (mg/L) 131.47 131.47 131.47 131.47 127.49 127.49 127.49 127.49 127.49 200.00 600.00 8 Total Alkalinity (mg/L) 115.02 115.02 115.02 115.02 115.02 115.02 115.02 115.02 115.02 200.00 600.00 9 Iron(as Fe), mg/L < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 1.0 No Relaxation Chloride (mg/L) 10 18.72 18.72 18.72 18.72 18.72 18.72 18.72 18.72 18.72 250.00 1000.00 C .Bacteriological Test Results : Total Coliform (CFU/100 ml) 11 Absent Absent NF NF NF NF NF NF NF NF NF Fecal Coliform (CFU/100 ml) 12 NF Absent Absent NF NF NF NF NF NF NF NF

O.H.R. - OVER HEAD RESERVOIR , N.F-NOT FOUND

Sd/-**Chemist & Bacteriologist** NTKD - I P.H.E. Dte.

Sd/-**Assistant Engineer** NTKD - I P.H.E. Dte

#### DIRECTORATE OF PUBLIC HEALTH ENGINEERING

### OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

#### TEST REPORT: ACTION AREA - I, ZONE - V

Sub.: Water Testing (Physico-Chemical & Chemical)

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-	Permissible Limit in the absence of alternate Source			SOURCE (PI			
		2012)	(IS 10500-2012)						
				INLET OF O.H.R.	OUTLET OF O.H.R.	CC-201	CC - 194	CA- 81	CB-08
	A. Physico - chemical Test	Results:							
1	pH Value.	6.5-8.5	6.5-8.5	7.70	7.71	7.87	7.87	7.91	7.90
2	Temperature(degree C)			26.2	26.2	25.7	25.7	25.7	25.4
3	Total Dissolved Solid (mg/L)	500.00	2000.00	159.5	160.6	161.2	161.3	160.6	161.0
4	Turbidity (NTU)	1.00	5.00	1.31	1.84	1.81	1.42	1.88	1.94
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.4	0.1	0.3	0.4	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (	Chemical Test Results:	•							
7	Total Hardness (mg/L)	200.00	600.00	131.47	135.46	135.46	135.46	135.46	135.46
8	Total Alkalinity (mg/L)	200.00	600.00	115.02	115.02	115.02	115.02	115.02	115.02

O.H.R. - OVER HEAD RESERVOIR,

Sd/-Chemist NTKD - I P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte. Sd/-Executive Engineer NTKD - I P.H.E. Dte.

**Date of Testing: 10.06.2022** 

#### TEST REPORT: <u>ACTION AREA –I</u>

Sub.: Water Testing (Physico-Chemical & Chemical)

Date of Testing: 10.06.2022

Sl. No	Characteristic	Requirement (Acceptable	Permissible Limit		SOU	URCE (PHE SUPPLY)	
		Limit) (IS 10500-2012)	in the absence of alternate Source (IS 10500-2012)	HIDCO	ALO EYE CARE	NABADIGANTA SWASTHYA PARISHEBA PVT LTD	DARADIA PAIN HOSPITAL
A. Ph	ysico-chemical Test Results:	1			•	1	
1	pH Value.	6.5-8.5	6.5-8.5	7.68	7.64	7.69	7.62
2	Temperature(degree C)			26.0	26.0	26.0	26.0
3	Total Dissolved Solid (mg/L)	500.00	2000.00	160.9	161.5	161.6	161.7
4	Turbidity (NTU)	1.00	5.00	1.94	1.97	1.73	1.68
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.1	0.3	0.4	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Cl	hemical Test Results:					<u> </u>	
7	Total Hardness (mg/L)	200.00	600.00	131.47	135.46	135.46	135.46
8	Total Alkalinity (mg/L)	200.00	600.00	115.02	115.02	115.02	115.02

Sd/-Chemist NTKD - I P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte.

#### TEST REPORT: <u>AA – I, ZONE – VII</u>

Sub.: Water Testing (Physico-Chemical ,Chemical & Bacteriological)

**Date of Testing: 13.06.2022** 

Sl.	Characteristic	Requirement	Permissible Limit				SOURCE (PH	IE SUPPLY)			
No		(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source (IS 10500-2012)				ZONE	- VII			
				INLET OF O.H.R.	OUTLET OF O.H.R.	DC-57	HIDCO ADMIN BUILDING	DC - 210	DC-248	DC-167	DC-232
A. Pl	nysico-chemical Test Results:										
1	pH Value.	6.5-8.5	6.5-8.5	7.53	7.62	7.68	7.71	7.70	7.69	7.69	7.69
2	Temperature(degree C)			26.5	26.6	26.8	26.5	26.5	26.6	26.5	26.6
3	Total Dissolved Solid.	500.00	2000.00	129.6	131.8	131.6	130.6	130.8	131.3	130.8	131.3
4	Turbidity, (NTU)	1.00	5.00	1.57	1.55	1.60	1.51	1.34	1.57	1.20	1.28
5	Residual Free Chlorine	0.20	1.00	0.3	0.4	0.4	0.2	0.3	0.2	0.2	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. С	hemical Test Results:					•			1		
7	Total Hardness, (mg/L)	200.00	600.00	123.50	127.49	127.49	123.50	123.50	127.49	123.50	123.50
8	Total Alkalinity, (mg/L)	200.00	600.00	115.02	115.02	115.02	115.02	115.02	115.02	115.02	115.02
9	Iron(as Fe), mg/L	1.0/0.1	1.0/1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250/200	1000/1000	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46
C .Ba	acteriological Test Results :	1	1	ı					1		
11	Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	NF	NF	NF	NF	NF	NF	NF	NF
12	Fecal Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	NF	NF	NF	NF	NF	NF	NF	NF

O.H.R. - OVER HEAD RESERVOIR, N.F. - NOT FOUND

Sd/Chemist & Bacteriologist
NTKD-I, P.H.E. Dte.

Sd/-Assistant Engineer NTKD - I P.H.E. Dte.

#### TEST REPORT: <u>AA – I. ZONE – VIII</u>

Sub.: Water Testing (Physico-chemical, Chemical & Bacteriological)

Date of Testing: 13.06.2022

Sl.	Characteristic	Requirement	Permissible			SC	OURCE (PHE SU	PPLY)		
No		(Acceptable	Limit				ZONE - VII	I		
		Limit) (IS 10500- 2012)	in the absence of alternate Source (IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	DA-30	DC-23	DA-88	DB-222	DC-43
A. Ph	ysico-chemical Test Results:		<u> </u>		•					
1	pH Value.	6.5-8.5	6.5-8.5	7.75	7.73	7.73	7.71	7.71	7.71	7.69
2	Temperature(degree C)			26.7	26.6	26.6	26.5	26.3	26.5	26.5
3	Total Dissolved Solid.	500.00	2000.00	129.5	129.1	131.3	132.4	131.1	130.9	130.8
4	Turbidity (NTU)	1.00	5.00	1.86	1.17	1.45	1.63	1.47	1.28	1.97
5	Residual Free Chlorine	0.20	1.00	0.3	0.4	0.3	0.2	0.3	0.3	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Cl	nemical Test Results:	•	1						1	l
7	Total Hardness. (mg/L)	200.00	600.00	123.50	123.50	127.49	127.49	127.49	127.49	127.49
8	Total Alkalinity. (mg/L)	200.00	600.00	115.02	115.02	115.02	115.02	115.02	115.02	115.02
9	Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250.00	1000.00	22.46	22.46	22.46	22.46	22.46	22.46	22.46
C .Ba	cteriological Test Results :	•	1		•		1			•
11	Total Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF	NF	NF	NF
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF	NF	NF	NF

O.H.R. - OVER HEAD RESERVOIR, N.F-NOT FOUND

Sd/-Chemist & Bacteriologist NTKD - I P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte.

NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: <u>ACTION AREA -I , ZONE - I</u>

Sub.: <u>Water Testing (Physico-chemical & Chemical)</u>

Sl. No	Characteristic	Requirement	Permissible Limit		SO	OURCE (PHE SU	PPLY)		
110		(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source			ZONE - I			
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	AD - 26	AA- 05	AC - 107	AC - 50
A. I	Physico-chemical Test Result	ts:					<u> </u>		
1	pH Value.	6.5-8.5	6.5-8.5	7.74	7.78	7.76	7.78	7.78	7.77
2	Temperature(degree C)			25.9	25.9	26.1	25.9	25.9	25.9
3	Total Dissolved Solid (mg/L)	500.00	2000.00	134	135.1	135.3	135.1	135.1	135.6
4	Turbidity (NTU)	1.00	5.00	1.42	1.25	1.79	1.29	1.59	1.77
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.4	0.3	0.2	0.3	0.4
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В.	Chemical Test Results:			l				l	
7	Total Hardness (mg/L)	200.00	600.00	127.83	127.83	127.83	123.83	123.83	123.83
8	Total Alkalinity (mg/L)	200.00	600.00	111.80	107.50	103.20	107.50	103.20	107.50

O.H.R. - OVER HEAD RESERVOIR,

Sd/-Chemist NTKD-I, P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte. Sd/-Executive Engineer NTKD - I P.H.E. Dte.

**Date of Testing: 17.06.2022** 

#### DIRECTORATE OF PUBLIC HEALTH ENGINEERING

### OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: ACTION AREA -I, ZONE - II

Sub.: Water Testing (Physico-chemical & Chemical)

Sl. No	Characteristic	Requirement (Acceptable	Permissible Limit			SOURCE (PHE S	UPPLY)		
		Limit)	in the absence			ZONE - I	I		
		(IS 10500- 2012)	of alternate Source (IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	NEWTOWN BUS TERMINUS	BA - 120	AB- 72	AE - 14
A. Pl	nysico-chemical Test Results:				•				
1	pH Value.	6.5-8.5	6.5-8.5	7.62	7.69	7.72	7.75	7.77	7.76
2	Temperature(degree C)			25.4	25.4	25.8	26.0	26.0	26.2
3	Total Dissolved Solid (mg/L)	500.00	2000.00	135.9	136.6	136.6	136.8	136.4	136.1
4	Turbidity (NTU)	1.00	5.00	1.93	2.05	1.73	1.85	1.76	1.53
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.4	0.3	0.2	0.3	0.4
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. С	Chemical Test Results:								
7	Total Hardness (mg/L)	200.00	600.00	127.83	127.83	127.83	127.83	127.83	127.83
8	Total Alkalinity (mg/L)	200.00	600.00	111.80	107.50	103.20	107.50	103.20	107.50

O.H.R. - OVER HEAD RESERVOIR

Sd/-Chemist NTKD-I, P.H.E. Dte. Sd/-Assistant Engineer NTKD – I, P.H.E. Dte. Sd/-Executive Engineer NTKD – I, P.H.E. Dte.

**Date of Testing: 17.06.2022** 

#### DIRECTORATE OF PUBLIC HEALTH ENGINEERING

#### OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: AA - I, ZONE - X

Sub.: Water Testing (Physico-Chemical & Chemical) **Date of Testing: 20.06.2022** 

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of		SOURCE (I	PHE SUPPLY)			
140		(IS 10500-2012)	alternate Source	ZONE - X					
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	GREEN FIELD – 4D	NATIONAL CANCER INSTITUTE CHITTARANJAN		
A. Phy	ysico-chemical Test Results:		•			•			
1	pH Value.	6.5-8.5	6.5-8.5	7.28	7.35	7.39	7.50		
2	Temperature(degree C)			25.2	25.2	25.2	25.2		
3	Total Dissolved Solid(mg/L)	500.00	2000.00	158.7	159.4	160.9	160.6		
4	Turbidity, (NTU)	1.00	5.00	1.18	1.16	1.14	1.33		
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.2	0.3	0.2	0.2		
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
B. Ch	nemical Test Results:		1						
7	Total Hardness, (mg/L)	200.00	600.00	139.82	135.46	139.82	139.82		
8	Total Alkalinity, (mg/L)	200.00	600.00	103.20	107.50	107.50	107.50		

O.H.R. - OVER HEAD RESERVOIR,

Sd/-Chemist NTKD - I P.H.E. Dte.

Sd/-**Assistant Engineer** NTKD - I P.H.E. Dte.

#### TEST REPORT: AA - I, ZONE - IX

Sub.: Water Testing (Physico-Chemical & Chemical)

Sl.		Requirement	Permissible Limit		SO	URCE (PHE SUPP	LY)				
No	Characteristic	(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source	ZONE - IX							
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	DAWAT RESTAURANT	RISHI TOWER	SASTA SUNDAR INNOVATION TOWER			
A. P	Physico-chemical Test Results:										
1	pH Value.	6.5-8.5	6.5-8.5	7.50	7.50	7.49	7.49	7.53			
2	Temperature(degree C)			25.4	25.5	25.4	25.4	25.1			
3	Total Dissolved Solid. (mg/L)	500.00	2000.00	157.8	157.8	158.1	158.1	157.1			
4	Turbidity, (NTU)	1.00	5.00	1.88	1.59	1.93	1.54	1.38			
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.4	0.4	0.3	0.2	0.2			
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
В. (	Chemical Test Results:	,		•							
7	Total Hardness, (mg/L)	200.00	600.00	139.82	135.82	139.82	139.82	135.82			
8	Total Alkalinity, (mg/L)	200.00	600.00	103.20	107.50	103.20	103.20	103.20			

O.H.R. - OVER HEAD RESERVOIR

Sd/-Chemist NTKD - I P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte. Sd/-Executive Engineer NTKD - I P.H.E. Dte.

**Date of Testing: 20.06.2022** 

#### DIRECTORATE OF PUBLIC HEALTH ENGINEERING

## OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: ACTION AREA - I, ZONE - VI

Sub.: Water Testing (Physico-chemical, Chemical & Bacteriological)

Date of Testing: 21.06.2022

Sl. No	Characteristic	Requirement (Acceptable	Permissible Limit			sou	JRCE (PHE S	UPPLY)		
		Limit) (IS 10500-2012)	in the absence of alternate				ZONE - VI			
			Source (IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	NBCC	CE /1/A/97	CE -74	CE-197	CE -1/C/50
	A. Physico - chemical T	Test Results:								
1	pH Value.	6.5-8.5	6.5-8.5	7.57	7.55	7.64	7.61	7.64	7.63	7.63
2	Temperature(degree C)			26.6	26.6	26.7	26.8	26.5	26.6	26.5
3	Total Dissolved Solid (mg/L)	500.00	2000.00	153.7	154.7	155.6	154.9	154.9	154.8	154.6
4	Turbidity (NTU)	1.00	5.00	1.68	1.72	1.84	1.78	1.94	1.84	1.63
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.6	0.4	0.2	0.4	0.3	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	B. Chemical Test Resul	lts:								
7	Total Hardness (mg/L)	200.00	600.00	135.82	139.82	139.82	135.82	135.82	135.82	139.82
8	Total Alkalinity (mg/L)	200.00	600.00	107.50	107.50	107.50	107.50	107.50	107.50	107.50
9	Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250.00	1000.00	19.00	20.90	19.00	19.00	19.00	19.00	20.90
	C. Bacteriological Test Results	<b>5</b> :								
11	Total Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF	NF	NF	NF
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF	NF	NF	NF
	O H D OVED HEAD DECE									

O.H.R. - OVER HEAD RESERVOIR, N.F. - NOT FOUND

Sd/-Chemist & Bacteriologist NTKD - I P.H.E. Dte.

Sd/-Assistant Engineer NTKD - I P.H.E. Dte.

#### DIRECTORATE OF PUBLIC HEALTH ENGINEERING

### OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

#### TEST REPORT: <u>AA – I, ZONE – III</u>

Sub.: Water Testing (Physico-chemical & Chemical & Bacteriological)

Sl. No	Characteristic	Requirement (Acceptable	Permissible Limit in the absence of			SOURCE (	PHE SUPPLY)		
		Limit)	alternate Source			ZO	NE - III		
		(IS 10500-2012)	(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R	AI/67	NKDA Off.	AL/1/C/40	AI/54
	A. Physico-chemi	cal Test Results:							
1	pH Value.	6.5-8.5	6.5-8.5	7.48	7.55	7.57	7.56	7.60	7.61
2	Temperature(degree C)			26.8	26.9	26.7	26.7	26.5	26.5
3	Total Dissolved Solid (mg/L)	500.00	2000.00	154.3	155.4	157.6	154.9	156.9	154.3
4	Turbidity, (NTU)	1.00	5.00	1.81	1.70	1.70	1.77	1.75	1.91
5	Residual Free Chlorine (mg/L)	0.20	1.00	1.0	0.8	0.8	0.6	0.4	0.8
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	B. Chemical Test	Results:					<u> </u>		
7	Total Hardness, (mg/L)	200.00	600.00	135.82	139.82	139.82	135.82	139.82	135.82
8	Total Alkalinity, (mg/L)	200.00	600.00	111.80	111.80	111.80	111.80	111.80	107.50
9	Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250.00	1000.00	19.00	20.90	19.00	20.90	19.00	19.00
C.I	<b>Bacteriological Test Results</b>	:							
11	Total Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF	NF	NF
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF	NF	NF

O.H.R. - OVER HEAD RESERVOIR, , N.F-NOT FOUND

Sd/-Chemist & Bacteriologist NTKD-I, P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte. Sd/-Executive Engineer NTKD - I P.H.E. Dte.

**Date of Testing: 21.06.2022** 

#### DIRECTORATE OF PUBLIC HEALTH ENGINEERING

### OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: ACTION AREA - I, ZONE - V

Sub.: Water Testing (Physico-Chemical & Chemical)

**Date of Testing: 24.06.2022** 

Sl.	Characteristic	Requirement				SO	URCE (PHE SUI	PPLY)		
No		(Acceptable Limit)	Permissible Limit in the absence of				ZONE - V			
		(IS 10500- 2012)	alternate Source (IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	CC-201	CD - 125	CA- 81	CB-08	CA-27
	A. Physico - chemical Test	Results:				1	•	-		•
1	pH Value.	6.5-8.5	6.5-8.5	7.39	7.48	7.63	7.66	7.43	7.47	7.41
2	Temperature(degree C)			25.8	25.7	25.6	25.6	25.5	25.6	25.6
3	Total Dissolved Solid (mg/L)	500.00	2000.00	145.2	143.8	147.2	145.4	145.3	146.6	146.6
4	Turbidity (NTU)	1.00	5.00	1.80	1.84	1.95	1.17	1.89	1.56	1.43
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.4	0.2	0.1	0.4	0.3	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (	Chemical Test Results:		,		1	•				•
7	Total Hardness (mg/L)	200.00	600.00	131.82	131.82	135.82	135.82	135.82	139.82	139.82
8	Total Alkalinity (mg/L)	200.00	600.00	98.90	98.90	98.90	98.90	103.20	103.20	103.20
	O H R - OVER HEAD R	ECEDVAID			•	•	•			

O.H.R. - OVER HEAD RESERVOIR

Sd/-Chemist NTKD - I P.H.E. Dte.

Sd/-Assistant Engineer NTKD - I P.H.E. Dte.

#### TEST REPORT: ACTION AREA -I, ZONE - IV

**Sub.**: Water Testing (Physico-chemical, Chemical)

Sl. No	Characteristic	Requirement (Acceptable	Permissible Limit			SOURCE (	(PHE SUPPLY)		
		Limit) (IS 10500-2012)	in the absence of alternate			ZO	NE - IV		
			Source (IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	SENIOR CITIZEN PARK	BE-17	BC-141	BC-105
A. P	hysico-chemical Test Results:							,	
1	pH Value.	6.5-8.5	6.5-8.5	7.42	7.43	7.50	7.49	7.55	7.51
2	Temperature(degree C)			25.6	25.8	25.9	25.8	25.9	25.8
3	Total Dissolved Solid (mg/L)	500.00	2000.00	142.9	146.6	146.2	146.5	146.1	146.3
4	Turbidity (NTU)	1.00	5.00	1.89	1.58	1.73	1.78	1.68	1.47
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.4	0.3	0.1	0.3	0.1
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (	Chemical Test Results:			I	1				
7	Total Hardness (mg/L)	200.00	600.00	127.83	135.82	131.82	131.82	135.82	135.82
8	Total Alkalinity (mg/L)	200.00	600.00	98.90	103.20	98.90	98.90	98.90	98.90

O.H.R. - OVER HEAD RESERVOIR

Sd/-Chemist NTKD - I P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte Sd/-Executive Engineer NTKD - I P.H.E. Dte.

**Date of Testing: 24.06.2022** 

## ACTION AREA – II (JUNE' 2022)

#### TEST REPORT: AA – II A, ZONE – X

Sub.: Water Testing (Physico-chemical & Chemical)

Date of Testing: 03.06.2022

Sl. No	Characteristic	Requirement	Permissible Limit		SOURCE (PHE SUPPLY)	
110		(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source		AA – IIA, ZONE – X	
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	ALIAH UNIVERSITY
A. P	hysico-chemical Test Results:	1				
1	pH Value.	6.5-8.5	6.5-8.5	7.55	7.57	7.63
2	Temperature (degree C)			26.6	26.6	26.6
3	Total Dissolved Solid (mg/L)	500.00	2000.00	169.1	170.6	170.5
4	Turbidity (NTU)	1.00	5.00	1.92	1.20	1.99
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.1	0.6	0.4
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. С	Chemical Test Results:	1	1			
7	Total Hardness (mg/L)	200.00	600.00	135.46	139.44	139.44
8	Total Alkalinity (mg/L)	200.00	600.00	119.28	119.28	119.28

O.H.R. - OVER HEAD RESERVOIR, N.F-NOT FOUND

Sd/-Chemist NTKD - I P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte.

TEST REPORT: <u>AA – II B, ZONE – IV</u>

Sub.: Water Testing (Physico-chemical & Chemical)

**Date of Testing: 03.06.2022** 

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of				SOURCE (P	HE SUPPLY)			
		(IS 10500-2012)	alternate Source				AA – IIB,	ZONE - IV			
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	HILAND WILLOWS	ANAHITA	MALANCHA	NKDA MARKET	ECO URBAN VILLAGE	SHILPI VILLA
A. P	hysico-chemical Test Results:										
1	pH Value.	6.5-8.5	6.5-8.5	7.55	7.61	7.69	7.70	7.71	7.72	7.68	7.69
2	Temperature (degree C)			26.7	26.7	26.7	26.7	26.7	26.6	26.6	26.6
3	Total Dissolved Solid (mg/L)	500.00	2000.00	170.3	171.6	171.7	170.9	171.6	171.3	170.8	170.7
4	Turbidity (NTU)	1.00	5.00	1.25	1.94	1.99	1.77	1.35	1.33	1.81	1.61
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.1	0.4	0.3	0.2	0.3	0.4	0.3	0.4
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (	Chemical Test Results:			I	I						
7	Total Hardness (mg/L)	200.00	600.00	135.46	131.47	135.46	135.46	135.46	135.46	135.46	135.46
8	Total Alkalinity (mg/L)	200.00	600.00	115.02	115.02	115.02	119.28	115.02	119.28	119.28	119.28

O.H.R. - OVER HEAD RESERVOIR

Sd/-Chemist NTKD - I P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte.

### GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERING

#### OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I

#### ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

#### TEST REPORT: AA – IIG, ZONE – XI

Sub.: Water Testing (Physico-chemical, Chemical & Bacteriological)

**Date of Testing: 07.06.2022** 

Sl. No	Characteristic	Requirement	Permissible Limit		SOURCE (PHE SUPPLY)	
		(Acceptable Limit)	in the absence of alternate Source		AA – IIG, ZONE - XI	
		(IS 10500-2012)	(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	EDEN COURT
A. Physi	co-chemical Test Results:					
1	pH Value.	6.5-8.5	6.5-8.5	7.27	7.37	7.39
2	Temperature (degree C)			26.4	26.4	26.4
3	Total Dissolved Solid (mg/L)	500.00	2000.00	166.5	164.7	163.7
4	Turbidity (NTU)	1.00	5.00	1.46	1.52	1.39
5	Residual Free Chlorine (mg/L)	0.20	1.00	1.0	0.4	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chen	nical Test Results:	1	1			l
7	Total Hardness (mg/L)	200.00	600.00	143.42	139.44	139.44
8	Total Alkalinity (mg/L)	200.00	600.00	119.28	119.28	119.28
9	Iron(mg/L)	250.00	1000.00	<0.1	<0.1	<0.1
10	Chloride (mg/L)	1.0	No Relaxation	18.72	18.72	18.72
C. Bact	eriological Test Results:	1	1		1	1
11	Total Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF

O.H.R. - OVER HEAD RESERVOIR, N.F. -NOT FOUND

Sd/-Chemist & Bacteriologist NTKD - I P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte.

#### DIRECTORATE OF PUBLIC HEALTH ENGINEERING

#### OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: <u>AA – II A, ZONE – X</u>

Sub.: Water Testing (Physico-chemical, Chemical & Bacteriological)

**Date of Testing: 08.06.2022** 

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of		SOURCE (PHE	SUPPLY)	
		(IS 10500-2012)	alternate Source		AA – IIA, ZO	NE – X	
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	HAJ TOWER	ALIAH UNIVERSITY
A. P	hysico-chemical Test Results:	1			1		- 1
1	pH Value.	6.5-8.5	6.5-8.5	7.75	7.74	7.72	7.70
2	Temperature (degree C)			25.3	25.2	25.1	25.2
3	Total Dissolved Solid (mg/L)	500.00	2000.00	161.6	161.9	162.2	162.4
4	Turbidity (NTU)	1.00	5.00	1.25	1.74	1.37	1.48
5	Residual Free Chlorine (mg/L)	0.20	1.00	1.0	0.2	0.2	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (	Chemical Test Results:						
7	Total Hardness (mg/L)	200.00	600.00	139.44	131.47	135.46	139.44
8	Total Alkalinity (mg/L)	200.00	600.00	119.28	115.02	115.02	119.28
9	Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250.00	1000.00	20.58	20.58	20.58	20.58
C.B	acteriological Test Results :				<u>'</u>		•
11	Total Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF

O.H.R. - OVER HEAD RESERVOIR, N.F-NOT FOUND

Sd/-**Chemist & Bacteriologist** NTKD - I P.H.E. Dte.

Sd/-**Assistant Engineer** NTKD - I P.H.E. Dte.

### GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERING

### OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

#### TEST REPORT: AA – II C, ZONE – I

Sub.: Water Testing (Physico-Chemical, Chemical & Bacteriological)

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)  AA – IIC, ZONE - I						
				INLET	OUTLET	AKANKHA	NKDA MKT	STARLIT COMPLEX	HILAND WOODS	MOON BEAM
A. P	hysico-chemical Test Result	s:				•				
1	pH Value.	6.5-8.5	6.5-8.5	7.45	7.57	7.59	7.61	7.61	7.61	7.64
2	Temperature (degree C)			26.9	26.8	26.8	26.8	26.5	26.5	26.3
3	Total Dissolved Solid (mg/L)	500.00	2000.00	149.4	149.3	149.4	149.4	149.0	149.6	148.6
4	Turbidity (NTU)	1.00	5.00	1.15	2.68	1.65	1.83	1.48	1.34	1.17
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.6	0.2	0.4	0.3	0.2	0.4
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (	Chemical Test Results:									
7	Total Hardness (mg/L)	200.00	600.00	139.82	139.82	139.82	139.82	135.82	139.82	139.82
8	Total Alkalinity (mg/L)	200.00	600.00	116.10	116.10	116.10	116.10	111.80	116.10	116.10
9	Iron(as Fe) (mg/L)	1.0	No Relaxation	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250.00	1000.00	20.90	20.90	20.90	20.90	20.90	20.90	20.90
C. I	Bacteriological Test Results:					•		•		
11	Total Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF	NF	NF	NF
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF	NF	NF	NF

N.F- NOT FOUND,

Sd/-Chemist & Bacteriologist NTKD - I P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte. Sd/-Executive Engineer NTKD - I P.H.E. Dte.

**Date of Testing: 15.06.2022** 

#### GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERING

#### OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

#### TEST REPORT: <u>AA – II D, ZONE – V</u>

Sub.: Water Testing (Physico-chemical, Chemical & Bacteriological)

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)		SOURCE (PHE AA – IID, ZO	·	
				INLET OF O.H.R.	OUTLET OF O.H.R.	ALATIKA	GREEN WOOD SONATA
A. Ph	ysico-Chemical Test Results:						
1	pH Value.	6.5-8.5	6.5-8.5	7.67	7.62	7.59	7.67
2	Temperature (degree C)			26.5	26.5	26.3	26.1
3	Total Dissolved Solid (mg/L)	500.00	2000.00	148.6	149.6	149.5	149.6
4	Turbidity (NTU)	1.00	5.00	1.63	1.93	1.80	1.16
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.4	0.3	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. C	hemical Test Results:	1	1	1			
7	Total Hardness (mg/L)	200.00	600.00	139.82	139.82	135.82	135.82
8	Total Alkalinity (mg/L)	200.00	600.00	116.10	116.10	111.80	111.80
9	Iron(as Fe) (mg/L)	1.0	No Relaxation	<0.1	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250.00	1000.00	20.90	20.90	20.90	20.90
C. Ba	cteriological Test Results:	•					•
11	Total Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF
		I		1	1		

O.H.R. - OVER HEAD RESERVOIR, N.F-NOT FOUND

Sd/-Chemist & Bacteriologist NTKD - I P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte. Sd/-Executive Engineer NTKD - I P.H.E. Dte.

**Date of Testing: 15.06.2022** 

#### GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERING

#### OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: AA – II D, ZONE – VI

Sub.: Water Testing (Physico-chemical, Chemical & Bacteriological)

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)  AA – IID, ZONE - VI						
		(IS 10500-2012)								
				INLET OF O.H.R	OUTLET OF O.H.R.	SHRACHI GREENWOOD ELEMENT	GREEN FIELD AMBITION			
A. P	hysico-chemical Test Results	s:								
1	pH Value.	6.5-8.5	6.5-8.5	7.42	7.55	7.62	7.64			
2	Temperature (degree C)			26.3	26.3	26.3	26.3			
3	Total Dissolved Solid (mg/L)	500.00	2000.00	140.9	149.2	148.7	149.1			
4	Turbidity (NTU)	1.00	5.00	1.14	1.80	1.39	1.99			
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.8	0.6	0.4	0.4			
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
В.	Chemical Test Results:									
7	Total Hardness (mg/L)	200.00	600.00	139.82	135.82	135.82	135.82			
8	Total Alkalinity (mg/L)	200.00	600.00	116.10	111.80	111.80	111.80			
9	Iron(as Fe) (mg/L)	1.0	No Relaxation	<0.1	<0.1	<0.1	<0.1			
10	Chloride (mg/L)	250.00	1000.00	20.90	20.90	20.90	20.90			
<b>C.</b> 1	Bacteriological Test Results:									
11	Total Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF			
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF			

O.H.R. - OVER HEAD RESERVOIR, N.F. - NOT FOUND

Sd/-Chemist & Bacteriologist NTKD - I P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte. Sd/-Executive Engineer NTKD - I P.H.E. Dte.

**Date of Testing: 15.06.2022** 

TEST REPORT: <u>AA – IIG, ZONE – XI</u>

Sub.: Water Testing (Physico-chemical & Chemical)

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of	SOURCE (PHE SUPPLY)				
		(IS 10500-2012)	alternate Source		AA – IIG, ZONE – XI			
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	EDEN COURT		
A. Pl	nysico-chemical Test Results:							
1	pH Value.	6.5-8.5	6.5-8.5	7.38	7.43	7.50		
2	Temperature (degree C)			25.6	25.6	25.6		
3	Total Dissolved Solid (mg/L)	500.00	2000.00	158.1	158.2	157.4		
4	Turbidity (NTU)	1.00	5.00	1.66	1.56	1.52		
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.6	0.4	0.3		
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
В. С	Chemical Test Results:		<u>'</u>					
7	Total Hardness (mg/L)	200.00	600.00	139.82	139.82	135.82		
8	Total Alkalinity (mg/L)	200.00	600.00	103.20	103.20	103.20		

O.H.R. - OVER HEAD RESERVOIR

Sd/-Chemist NTKD - I P.H.E. Dte Sd/-Assistant Engineer NTKD - I P.H.E. Dte. Sd/-Executive Engineer NTKD - I P.H.E. Dte.

**Date of Testing: 20.06.2022** 

#### DIRECTORATE OF PUBLIC HEALTH ENGINEERING

### OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: AA – II C, ZONE – I

Sub.: Water Testing (Physico-Chemical & Chemical)

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of	SOURCE (PHE SUPPLY)								
		(IS 10500-2012)	alternate Source (IS 10500-2012)	AA – IIC, ZONE - I								
				INLET	OUTLET	AKANKHA	NKDA MKT	STARLIT COMPLEX	HILAND WOODS	MOON BEAM		
A. P	Physico-chemical Test Results	<b>5:</b>					1					
1	pH Value.	6.5-8.5	6.5-8.5	7.21	7.31	7.35	7.40	7.41	7.43	7.50		
2	Temperature (degree C)			26.2	26.2	26.3	26.3	26.3	26.4	26.6		
3	Total Dissolved Solid (mg/L)	500.00	2000.00	143.2	146.3	145.0	144.6	144.7	143.7	143.6		
4	Turbidity (NTU)	1.00	5.00	1.97	1.72	1.66	1.89	1.88	1.94	1.43		
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.6	0.3	0.4	0.4	0.3	0.4		
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
В.	Chemical Test Results:											
7	Total Hardness (mg/L)	200.00	600.00	139.82	139.82	139.82	135.82	135.82	135.82	135.82		
8	Total Alkalinity (mg/L)	200.00	600.00	98.90	103.20	103.20	103.20	103.20	103.20	103.20		

Sd/-Chemist NTKD - I P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte. Sd/-Executive Engineer NTKD - I P.H.E. Dte.

**Date of Testing: 28.06.2022** 

#### GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERING

## OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

#### TEST REPORT: <u>AA – II D, ZONE – V</u>

Sub.: Water Testing (Physico-chemical & Chemical ) Date of Testing: 28.06.2022

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)  AA – IID, ZONE - V					
				INLET OF O.H.R.	OUTLET OF O.H.R.	ALATIKA	GREEN WOOD SONATA		
A. Ph	ysico-Chemical Test Results:								
1	pH Value.	6.5-8.5	6.5-8.5	7.50	7.56	7.54	7.52		
2	Temperature (degree C)			26.6	26.8	26.8	26.8		
3	Total Dissolved Solid (mg/L)	500.00	2000.00	144.3	142.4	144.4	144.4		
4	Turbidity (NTU)	1.00	5.00	1.42	1.66	1.97	1.96		
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.2	0.2	0.2		
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
B. C	hemical Test Results:	1	1	1			1		
7	Total Hardness (mg/L)	200.00	600.00	131.83	131.83	135.82	131.83		
8	Total Alkalinity (mg/L)	200.00	600.00	98.90	94.60	94.60	94.60		

O.H.R. - OVER HEAD RESERVOIR,

Sd/-Chemist NTKD - I P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte.

#### DIRECTORATE OF PUBLIC HEALTH ENGINEERING

## OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: AA – II D, ZONE – VI

Sub.: Water Testing (Physico-chemical & Chemical)

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source	SOURCE (PHE SUPPLY)  AA – IID, ZONE - VI						
110										
			(IS 10500-2012)	INLET OF O.H.R	OUTLET OF O.H.R.	SHRACHI GREENWOOD ELEMENT	GREEN FIELD AMBITION			
A. P	hysico-chemical Test Results	s:								
1	pH Value.	6.5-8.5	6.5-8.5	7.55	7.56	7.59	7.60			
2	Temperature (degree C)			26.9	26.9	26.6	26.4			
3	Total Dissolved Solid (mg/L)	500.00	2000.00	142.7	143.1	142.8	143.2			
4	Turbidity (NTU)	1.00	5.00	1.39	1.29	1.38	1.78			
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.4	0.3	0.3			
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
B.	Chemical Test Results:			,						
7	Total Hardness (mg/L)	200.00	600.00	131.83	131.83	135.82	135.82			
8	Total Alkalinity (mg/L)	200.00	600.00	98.90	98.90	98.90	98.90			

O.H.R. - OVER HEAD RESERVOIR

Sd/-Chemist NTKD - I P.H.E. Dte. Sd/-Assistant Engineer NTKD - I P.H.E. Dte. Sd/-Executive Engineer NTKD - I P.H.E. Dte.

**Date of Testing: 28.06.2022** 

#### GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERING FHE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISIO

### OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

#### TEST REPORT: <u>AA – II B, ZONE – IV</u>

Sub.: Water Testing (Physico-chemical, Chemical & Bacteriological)

(Acceptable	Requirement (Acceptable Limit)	Permissible Limit	SOURCE (PHE SUPPLY)								
	(IS 10500-2012)/	(CPHEEO)	AA – IIB, ZONE – IV								
	(СРНЕЕО)		INLET OF O.H.R.	OUTLET OF O.H.R.	HILAND WOODS	ANAHITA	MALANCHA	ECO URBAN VILLAGE	SHILPI VILLA		
Physico-chemical Test Resul	ts:		•			•	•				
pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.04	7.10	7.12	7.15	7.18	7.21	7.20		
Temperature (degree C)			26.9	26.9	26.9	26.8	26.8	26.8	26.8		
Total Dissolved Solid (mg/L)	500/500	2000/2000	144.0	143.8	144.1	143.5	143.3	143.0	143.4		
Turbidity (NTU)	1/1	5/10	1.78	1.50	1.91	1.97	1.72	1.89	1.63		
Residual Free Chlorine (mg/L)	0.2/0.2	0.2/1.0	0.4	0.3	0.2	0.2	0.2	0.3	0.3		
Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
Chemical Test Results:											
Total Hardness (mg/L)	200/200	600/600	131.83	135.82	131.83	135.82	131.83	131.83	131.83		
Total Alkalinity (mg/L)	200/200	600/600	90.30	94.60	94.60	94.60	94.60	98.90	98.90		
Iron(as Fe), mg/L	1.0/0.1	1.0/1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Chloride (mg/L)	250/200	1000/1000	17.10	17.10	17.10	17.10	17.10	17.10	17.10		
Bacteriological Test Results :	•	'	•	•		1	•				
Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	NF	NF	NF	NF	NF	NF	NF		
Fecal Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	NF	NF	NF	NF	NF	NF	NF		
	Physico-chemical Test Resul pH Value. Temperature (degree C) Total Dissolved Solid (mg/L) Turbidity (NTU) Residual Free Chlorine (mg/L) Odour Chemical Test Results: Total Hardness (mg/L) Total Alkalinity (mg/L) Iron(as Fe), mg/L Chloride (mg/L) Bacteriological Test Results: Total Coliform (CFU/100 ml)	(Acceptable Limit) (IS 10500-2012)/ (CPHEEO)  Physico-chemical Test Results:  pH Value. 6.5 to 8.5/7.0 to 8.5  Temperature (degree C)  Total Dissolved Solid (mg/L)  Turbidity (NTU)  Residual Free Chlorine (mg/L)  Odour  Agreeable/ Agreeable  Chemical Test Results:  Total Hardness (mg/L)  Total Alkalinity (mg/L)  Iron(as Fe), mg/L  Chloride (mg/L)  Chloride (mg/L)  Cateriological Test Results:  Total Coliform (CFU/100 ml)  Absent/Absent	(Acceptable Limit) (IS 10500-2012)/ (CPHEEO)	(Acceptable Limit) (IS 10500-2012)/ (CPHEEO)       (IS 10500-2012)/ (CPHEEO)         INLET OF O.H.R.         Physico-chemical Test Results:         pH Value.       6.5 to 8.5/7.0 to 8.5       6.5 to 8.5/6.5 to 9.2       7.04         Temperature (degree C)        26.9         Total Dissolved Solid (mg/L)       500/500       2000/2000       144.0         Turbidity (NTU)       1/1       5/10       1.78         Residual Free Chlorine (mg/L)       0.2/0.2       0.2/1.0       0.4         Odour       Agreeable/ Agreeable       Agreeable/ Agreeable       Agreeable/ Agreeable         Chemical Test Results:         Total Hardness (mg/L)       200/200       600/600       90.30         Iron(as Fe), mg/L       1.0/0.1       1.0/1.0       <0.1	(Acceptable Limit) (IS 10500-2012)/ (CPHEEO)    INLET OF O.H.R.   OF O.H.R.	(Acceptable Limit) (IS 10500-2012)/ (CPHEEO)  (IS 10500-2012)/ (CPHEEO)  INLET OF OUTLET WOODS  Physico-chemical Test Results:  PH Value. 6.5 to 8.5/7.0 to 8.5 6.5 to 8.5/6.5 to 9.2 7.04 7.10 7.12  Temperature (degree C) 26.9 26.9 26.9  Total Dissolved Solid (mg/L) 500/500 2000/2000 144.0 143.8 144.1  Turbidity (NTU) 1/1 5/10 1.78 1.50 1.91  Residual Free Chlorine (mg/L) 0.2/0.2 0.2/1.0 0.4 0.3 0.2  Odour Agreeable/ Agreeable Agreeable/ Agreeable Agreeable Agreeable Agreeable  Chemical Test Results:  Total Hardness (mg/L) 200/200 600/600 90.30 94.60 94.60  Iron(as Fe), mg/L 1.0/0.1 1.0/1.0 <0.1 <0.1 <0.1  Chloride (mg/L) 250/200 1000/1000 17.10 17.10 17.10  For total Coliform (CFU/100 ml) Absent/Absent Absent/Absent NF NF NF	(Acceptable Limit) (IS 10500-2012)/ (CPHEEO)   (IS 10500-2012)/ (CPHEEO)   (CPHEEO)	Cacceptable Limity (IS 10500-2012)/ (CPHEEO)   (IS 10500	(Acceptable Limit) (IS 10500-2012)/ (CPHEEO)   (IS 10500-2012)/ (IS		

O.H.R. - OVER HEAD RESERVOIR, N.F-NOT FOUND

Sd/-Chemist & Bacteriologist NTKD - I P.H.E. Dte.

Sd/-Assistant Engineer NTKD - I P.H.E. Dte. Sd/-Executive Engineer NTKD - I P.H.E. Dte.

**Date of Testing: 29.06.2022**