WATER QUALITY ANALYSIS REPORT AT DIFFERENT LOCATIONS OF NEW TOWN KOLKATA PROJECT, DURING MONTH DECEMBER' 2021

ACTION AREA – I (DECEMBER' 2021)

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: 01.12.2021

Sl. No	Characteristic	Requirement (Acceptable	le in the absence of								
		Limit) (IS 10500- 2012)	alternate Source (IS 10500-2012)				ZO	ONE - V			
				INLET OF O.H.R.	OUTLET OF O.H.R.	CC-201	CD - 125	CA- 81	CB-08	CC-188	CB-06
	A. Physico - chemical Test	Results:									
1	pH Value.	6.5-8.5	6.5-8.5	7.45	7.45	7.52	7.56	7.61	7.65	7.63	7.64
2	Temperature(degree C)			25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
3	Total Dissolved Solid (mg/L)	500.00	2000.00	156.1	156.3	156.1	156.3	156.1	156.3	156.3	156.2
4	Turbidity (NTU)	1.00	5.00	1.10	1.08	0.81	1.31	1.14	1.27	1.16	0.85
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.4	0.3	0.2	0.2	0.2	0.1	0.1
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (Chemical Test Results:										
7	Total Hardness (mg/L)	200.00	600.00	133.42	133.42	129.60	133.42	133.42	133.42	133.42	129.60
8	Total Alkalinity (mg/L)	200.00	600.00	136.68	136.68	136.68	136.68	136.68	136.68	136.68	136.68

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 – I. ZONE – VIII

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

No			Permissible			SOUR	CE (PHE SUPP	LY)		
		(Acceptable	Limit				ZONE - VIII			
		Limit) (IS 10500-	in the absence	THE PER OF	OVER PER OF	D. 116	DG 44	D + 00	DD 444	DC 04
		2012)	of alternate	INLET OF	OUTLET OF	DA-116	DC-23	DA-88	DB-222	DC-06
		2012)	Source (IS 10500-2012)	O.H.R.	O.H.R.					
A. Phy	vsico-chemical Test Results:		(15 10300-2012)							
1	pH Value.			7.51	7.52	7.53	7.58	7.61	7.65	7.66
	* · · · · · · ·	6.5-8.5	6.5-8.5							
2	Temperature(degree C)			24.7	24.7	24.7	24.7	24.7	24.7	24.7
3	Total Dissolved Solid.	500.00	2000.00	158.8	158.9	159.2	159.1	159.2	159.0	159.2
4	Turbidity (NTU)	1.00	5.00	0.97	0.92	1.34	0.89	0.97	0.96	1.25
5	Residual Free Chlorine	0.20	1.00	0.35	0.55	0.4	0.3	0.4	0.35	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Ch	emical Test Results:									
7	Total Hardness. (mg/L)	200.00	600.00	137.23	137.23	137.23	137.23	137.23	137.23	137.23
8	Total Alkalinity. (mg/L)	200.00	600.00	136.68	136.68	136.68	136.68	136.68	136.68	136.68
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	17.10	17.10	17.10	17.10	17.10	17.10	17.10
C .Ba	cteriological 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

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: 03.12.2021

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: 06.12.2021

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	vsico-chemical Test Results:						
1	pH Value.	6.5-8.5	6.5-8.5	7.75	7.74	7.71	7.72
2	Temperature(degree C)			24.8	24.8	24.8	24.8
3	Total Dissolved Solid(mg/L)	500.00	2000.00	158.5	159.2	159.9	160.1
4	Turbidity, (NTU)	1.00	5.00	1.81	1.78	1.97	1.79
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.3	0.65	0.4	0.45
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Ch	emical Test Results:					'	
7	Total Hardness, (mg/L)	200.00	600.00	137.23	137.23	137.23	137.23
8	Total Alkalinity, (mg/L)	200.00	600.00	136.68	136.68	136.68	136.68

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)

Sl.		Requirement	Permissible Limit		SC	OURCE (PHE SUPI	PLY)	
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.	RISHI TOWER	DAWAT RESTAURANT	VGM TOWER
A. P	hysico-chemical Test Results:							
1	pH Value.	6.5-8.5	6.5-8.5	7.75	7.76	7.79	7.71	7.70
2	Temperature(degree C)			24.8	24.8	24.8	24.8	24.8
3	Total Dissolved Solid. (mg/L)	500.00	2000.00	158.9	159.1	159.3	159.9	160.1
4	Turbidity, (NTU)	1.00	5.00	2.71	2.15	1.87	1.81	1.89
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.45	0.35	0.2	0.3	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (Chemical Test Results:			•				
7	Total Hardness, (mg/L)	200.00	600.00	137.23	137.23	137.23	137.23	137.23
8	Total Alkalinity, (mg/L)	200.00	600.00	136.68	136.68	136.68	136.68	136.68

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: 06.12.2021

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)

Sl.	Characteristic	Requirement	Permissible			SOURCE (I	PHE SUPPLY)		
No		(Acceptable	Limit			ZON	NE - VI		
		Limit) (IS 10500-2012)	in the absence of alternate Source (IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	NBCC	CE /1/A/97	CE -74	CE-197
	A. Physico - chemical T	est Results:	, ,	•					•
1	pH Value.	6.5-8.5	6.5-8.5	7.87	7.86	7.87	7.89	7.91	7.92
2	Temperature(degree C)			24.6	24.6	24.6	24.6	24.6	24.6
3	Total Dissolved Solid (mg/L)	500.00	2000.00	158.7	159.0	159.5	159.4	159.3	159.1
4	Turbidity (NTU)	1.00	5.00	1.34	1.41	1.61	1.51	1.34	1.54
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.5	0.4	0.35	0.3	0.25
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	B. Chemical Test Resul	lts:		<u> </u>					<u> </u>
7	Total Hardness (mg/L)	200.00	600.00	137.23	137.23	137.23	137.23	137.23	137.23
8	Total Alkalinity (mg/L)	200.00	600.00	136.68	136.68	136.68	136.68	136.68	136.68
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	17.10	17.10	17.10	17.10	17.10	17.10
	C. Bacteriological Test Results	:		<u>'</u>	'		,		<u>'</u>
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
	H D _ OVED HEAD DESERVOID	N.F. NOT FOUND		1	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: 08.12.2021

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	Permissible Limit			SOUR	CE (PHE SUPPLY	Y)		
110		(Acceptable Limit)	in the absence of alternate Source				ZONE - III			
		(IS 10500-2012)	(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R	AL/1/C/06	NKDA Off.	AL/1/C/40	AI/153/18	AI/153/23
	A. Physico-chemi	cal Test Results:								
1	pH Value.	6.5-8.5	6.5-8.5	7.88	7.87	7.86	7.89	7.86	7.87	7.86
2	Temperature(degree C)			24.6	24.6	24.6	24.6	24.6	24.6	24.6
3	Total Dissolved Solid (mg/L)	500.00	2000.00	158.4	159.1	166.4	160.5	162.3	159.7	159.5
4	Turbidity, (NTU)	1.00	5.00	1.29	1.31	1.39	1.81	1.45	1.64	1.47
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.35	0.6	0.3	0.4	0.25	0.45	0.1
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	B. Chemical Test	Results:	1				l			
7	Total Hardness, (mg/L)	200.00	600.00	137.23	137.23	141.04	137.23	141.04	141.04	141.04
8	Total Alkalinity, (mg/L)	200.00	600.00	136.68	136.68	140.70	136.68	140.70	140.70	140.70
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	17.10	17.10	19.00	17.10	19.00	17.10	17.10
C.I	Bacteriological Test Results	<u> </u>								
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 U D OVED HEAD DECED	VOID NE NOT FOUN	•	•		•	•	•	•	

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: 08.12.2021

TEST REPORT: AA - I, ZONE - VII

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

Permissible Limit **SOURCE (PHE SUPPLY)** SI. Characteristic Requirement (Acceptable Limit) No in the absence of **ZONE - VII** (IS 10500-2012) alternate Source (IS 10500-2012) INLET OUTLET DC-57 HIDCO ADMIN DC-181 DF - 94 DC-251 OF O.H.R. OF O.H.R. BUILDING A. Physico-chemical Test Results: 1 pH Value. 7.65 7.69 7.71 7.70 7.72 7.73 7.74 6.5-8.5 6.5-8.5 2 **Temperature**(degree C) 24.3 24.3 24.3 24.3 24.3 24.3 24.3 ----3 **Total Dissolved Solid.** 170.3 170.5 171.6 172.6 172.0 170.8 171.1 500.00 2000.00 4 Turbidity, (NTU) 0.72 1.31 1.21 1.09 0.81 0.86 1.63 1.00 5.00 5 **Residual Free Chlorine** 0.25 0.55 0.45 0.1 0.4 0.3 0.4 0.20 1.00 Odour Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable **B.** Chemical Test Results: Total Hardness, (mg/L) 141.04 141.04 141.04 144.85 144.85 141.04 141.04 600.00 200.00 8 Total Alkalinity, (mg/L) 136.68 136.68 136.68 136.68 136.68 136.68 136.68 200.00 600.00 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 Chloride (mg/L) 250/200 1000/1000 17.10 17.10 17.10 17.10 17.10 17.10 17.10 C .Bacteriological Test Results : 11 Total Coliform (CFU/100 ml) Absent/Absent Absent/Absent NF NF NF NF NF NF NF Fecal Coliform (CFU/100 ml) 12 Absent/Absent Absent/Absent NF NF NF NF NF NF NF

O.H.R. - OVER HEAD RESERVOIR,

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: 09.12.2021

TEST REPORT: ACTION AREA -I, ZONE - IV

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

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of			SOU	URCE (PHE	SUPPLY)			
		(IS 10500-2012)	alternate Source (IS 10500-2012)				ZONE -	IV			
			(25 20000 2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	SENIOR CITIZEN PARK	BE-17	BB-50	BC-105	BD-41	BD-34
A. Pl	hysico-chemical Test Results:	I		l	l	l			I	l	
1	pH Value.	6.5-8.5	6.5-8.5	7.79	7.81	7.83	7.85	7.87	7.87	7.88	7.91
2	Temperature(degree C)			24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
3	Total Dissolved Solid (mg/L)	500.00	2000.00	170.3	171.0	171.1	170.9	170.9	171.0	170.8	171.0
4	Turbidity (NTU)	1.00	5.00	1.13	1.29	1.31	1.35	1.11	0.85	1.29	1.67
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.35	0.45	0.3	0.2	0.35	0.35	0.3	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. С	Chemical Test Results:	l								ı	
7	Total Hardness (mg/L)	200.00	600.00	141.04	144.86	144.86	141.04	141.04	144.86	144.86	144.86
8	Total Alkalinity (mg/L)	200.00	600.00	136.68	140.70	140.70	140.70	140.70	140.70	136.68	136.68
9	Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250.00	1000.00	17.10	17.10	17.10	17.10	17.10	17.10	17.10	17.10
C .Ba	acteriological Test Results :										
11	Total Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF	NF	NF	NF	NF
12	Fecal Coliform (CFU/100 ml)	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 Sd/-Executive Engineer NTKD - I P.H.E. Dte.

Date of Testing: 09.12.2021

TEST REPORT: <u>AA – I. ZONE – VIII</u> Sub.: <u>Water Testing (Physico-chemical & Chemical)</u>

Sl.	Characteristic	Requirement	Permissible			SOUR	CE (PHE SUPP	LY)		
No		(Acceptable Limit)	Limit				ZONE - VIII			
		(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-12	DA-88	DB-222	DC-16
A. Ph	ysico-chemical Test Results:									
1	pH Value.	6.5-8.5	6.5-8.5	7.52	7.55	7.56	7.57	7.56	7.57	7.58
2	Temperature(degree C)			24.5	24.5	24.5	24.5	24.5	24.5	24.5
3	Total Dissolved Solid.	500.00	2000.00	170.4	171.0	171.6	171.2	171.4	171.3	171.6
4	Turbidity. (NTU)	1.00	5.00	1.20	1.14	1.11	1.04	1.07	1.08	1.09
5	Residual Free Chlorine	0.20	1.00	0.4	0.65	0.4	0.45	0.4	0.5	0.5
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. С	hemical Test Results:									
7	Total Hardness. (mg/L)	200.00	600.00	137.23	137.23	137.23	137.23	137.23	137.23	137.23
8	Total Alkalinity. (mg/L)	200.00	600.00	136.68	136.68	136.68	136.68	136.68	136.68	136.68

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: 10.12.2021

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: 15.12.2021**

Sl. No	(Accep	Requirement	Permissible Limit	rmissible Limit the absence of							
1.0		(Acceptable Limit) (IS 10500-2012)	alternate Source				ZON	E - 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-172	AC-170
A. P	hysico-chemical Test Results:							1			
1	pH Value.	6.5-8.5	6.5-8.5	7.51	7.52	7.55	7.56	7.57	7.59	7.60	7.59
2	Temperature (degree C)			25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
3	Total Dissolved Solid (mg/L)	500.00	2000.00	175.1	172.8	172.5	172.3	172.3	172.8	172.5	172.1
4	Turbidity (NTU)	1.00	5.00	1.35	1.42	1.46	1.65	1.56	1.75	1.53	1.34
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.35	0.45	0.35	0.25	0.3	0.35	0.25	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (Chemical Test Results:										
7	Total Hardness (mg/L)	200.00	600.00	150.97	147.10	147.10	147.10	147.10	147.10	147.10	147.10
8	Total Alkalinity (mg/L)	200.00	600.00	139.40	135.30	135.30	131.20	135.30	135.30	135.30	135.30
9	Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250.00	1000.00	16.97	16.97	16.97	16.97	16.97	16.97	16.97	16.97
C.B	acteriological Test Results :	•	-				•	•	1	•	1
11	Total Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF	NF	NF	NF	NF
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF	NF	NF	NF	NF	NF
					1		l		l		1

O.H.R. - OVER HEAD RESERVOIR,

Sd/-**Chemist & Bacteriologist** 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								
		Limit) (IS 10500-2012)	in the absence of alternate			Z	ONE - IV				
			Source (IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	SENIOR CITIZEN PARK	BE-17	BB-50	BC-105	BC-42	
A. P	Physico-chemical Test Results	<u>:</u>									
1	pH Value.	6.5-8.5	6.5-8.5	7.52	7.53	7.56	7.55	7.57	7.58	7.59	
2	Temperature(degree C)			23.4	23.4	23.4	23.4	23.4	23.4	23.4	
3	Total Dissolved Solid (mg/L)	500.00	2000.00	175.1	175.6	175.9	175.5	176.4	175.6	176.2	
4	Turbidity (NTU)	1.00	5.00	1.16	1.21	1.50	1.45	1.52	1.40	1.52	
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.6	0.4	0.25	0.3	0.4	0.35	
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	
В. (Chemical Test Results:										
7	Total Hardness (mg/L)	200.00	600.00	143.23	143.23	147.10	143.23	143.23	143.23	143.23	
8	Total Alkalinity (mg/L)	200.00	600.00	147.60	147.60	147.60	143.50	143.50	143.50	143.50	

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: 17.12.2021

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 & Bacteriological)

Date of Testing: 20.12.2021

Sl. No	Characteristic	Requirement	Permissible Limit	SOURCE (PHE SUPPLY)						
NO		(Acceptable Limit) (IS 10500-2012)	in the absence of 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	7.80	7.81	7.82	7.81			
2	Temperature(degree C)			23.2	23.2	23.2	23.2			
3	Total Dissolved Solid(mg/L)	500.00	2000.00	180.5	180.0	179.8	179.7			
4	Turbidity, (NTU)	1.00	5.00	1.95	1.97	1.60	1.57			
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.45	0.6	0.4	0.45			
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
B. Ch	emical Test Results:									
7	Total Hardness, (mg/L)	200.00	600.00	147.10	147.10	143.23	143.23			
8	Total Alkalinity, (mg/L)	200.00	600.00	143.50	143.50	143.50	143.50			
9	Iron(as Fe), mg/L	1.0/0.1	1.0/1.0	<0.1	<0.1	<0.1	<0.1			
10	Chloride (mg/L)	250/200	1000/1000	16.97	16.97	16.97	16.97			
C .Bac	cteriological Test Results :				I	l	l			
11	Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	NF	NF	NF	NF			
12	Fecal Coliform (CFU/100 ml)	Absent/Absent	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 – I, ZONE – IX

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

Sl.		Requirement	Permissible Limit		SO	OURCE (PHE SUPI	PLY)	
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.	RISHI TOWER	DAWAT RESTAURANT	VGM BUILDING
A. P	hysico-chemical Test Results:							
1	pH Value.	6.5-8.5	6.5-8.5	7.85	7.87	7.86	7.85	7.89
2	Temperature(degree C)			23.2	23.2	23.2	23.2	23.2
3	Total Dissolved Solid. (mg/L)	500.00	2000.00	180.4	179.6	179.4	179.6	179.7
4	Turbidity, (NTU)	1.00	5.00	1.92	1.71	1.91	1.87	1.71
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.4	0.4	0.2	0.35	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. С	Chemical Test Results:	<u> </u>		1	1			1
7	Total Hardness, (mg/L)	200.00	600.00	147.10	143.23	143.23	143.23	143.23
8	Total Alkalinity, (mg/L)	200.00	600.00	147.60	143.50	143.50	143.50	143.50
9	Iron(as Fe), mg/L	1.0/0.1	1.0/1.0	<0.1	<0.1	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250/200	1000/1000	16.97	16.97	16.97	16.97	16.97
C .B	acteriological Test Results :	1		1	1			•
11	Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	NF	NF	NF	NF	NF
12	Fecal Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	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: 20.12.2021

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: 21.12.2021

Sl.	Characteristic	Requirement	Permissible			SOURCE (PH	E SUPPLY)		
No		(Acceptable	Limit			ZONE	- VI		
		Limit)	in the absence						
		(IS 10500-2012)	of alternate	INLET OF	OUTLET OF	NBCC	CE /1/A/97	CE -104	CE/1/C/203
			Source	O.H.R.	O.H.R.				
			(IS 10500-2012)						
	A. Physico - chemical T	Test Results:							
1	pH Value.	6.5-8.5	6.5-8.5	7.96	7.97	7.96	7.97	7.96	7.97
2	Temperature(degree C)			23.4	23.4	23.4	23.4	23.4	23.4
3	Total Dissolved Solid (mg/L)	500.00	2000.00	180.6	180.8	181.3	181.2	181.2	181.4
4	Turbidity (NTU)	1.00	5.00	1.93	1.55	1.43	1.61	1.91	1.93
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.5	0.4	0.3	0.35	0.25
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	B. Chemical Test Resul	ts:							
7	Total Hardness (mg/L)	200.00	600.00	154.84	154.84	158.71	158.71	158.71	158.71
8	Total Alkalinity (mg/L)	200.00	600.00	155.80	155.80	155.80	155.80	155.80	155.80

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 – I, ZONE – III
Sub + Woton Tosting (Physics shaminal & Ch

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

Date of Testing: 21.12.2021

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	AL/1/C/028	NKDA Off.	AL/1/C/40	AI/153/18	AL/1/C/22
	A. Physico-chemi	cal Test Results :		•						
1	pH Value.	6.5-8.5	6.5-8.5	7.93	7.44	7.96	7.95	7.97	7.98	7.97
2	Temperature(degree C)			23.4	23.4	23.4	23.4	23.4	23.4	23.4
3	Total Dissolved Solid (mg/L)	500.00	2000.00	181.4	181.3	181.3	181.3	181.1	179.4	178.1
4	Turbidity, (NTU)	1.00	5.00	1.87	1.83	1.64	1.70	1.67	1.95	1.96
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.35	0.65	0.35	0.45	0.3	0.1	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	B. Chemical Test	Results:	•	•	,				•	
7	Total Hardness, (mg/L)	200.00	600.00	154.84	154.84	154.84	154.84	154.84	154.84	150.97
8	Total Alkalinity, (mg/L)	200.00	600.00	155.80	155.80	155.80	155.80	155.80	155.80	151.70

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 - I

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

Sl. No	Characteristic	Requirement (Acceptable	Permissible Limit in the absence				SOURCE (PH	E SUPPLY)			
		Limit) (IS 10500-2012)	of alternate				ZONI	E - I			
		(13 10300-2012)	Source (IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	AD - 17	AA- 05	AC-107	AC - 50	AC-96	AC-105
A. P	 Physico-chemical Test Results:	<u> </u>									
1	pH Value.	6.5-8.5	6.5-8.5	7.89	8.06	8.09	8.05	8.08	8.07	8.06	8.06
2	Temperature (degree C)			23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
3	Total Dissolved Solid (mg/L)	500.00	2000.00	185.1	182.8	181.8	182.5	181.6	182.1	182.0	182.2
4	Turbidity (NTU)	1.00	5.00	1.91	1.93	1.92	1.99	1.97	1.99	1.89	1.87
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.5	0.6	0.4	0.6	0.65	0.6	0.6
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (Chemical Test Results:		1				l	l	l	1	l
7	Total Hardness (mg/L)	200.00	600.00	162.59	158.71	158.71	158.71	158.71	158.71	158.71	158.71
8	Total Alkalinity (mg/L)	200.00	600.00	147.60	143.50	143.50	143.50	143.50	143.50	143.50	143.50

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: 23.12.2021

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 - V

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

Sl.	Characteristic	Requirement	Permissible Limit			SOUI	RCE (PHE SUPP	PLY)		
No		(Acceptable Limit)	in the absence of alternate Source				ZONE - V			
		(IS 10500-2012)	(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	CA-239	CD - 125	CA- 81	CB-08	CA-50
	A. Physico - chemical Test	Results:	1		I					
1	pH Value.	6.5-8.5	6.5-8.5	7.97	7.97	7.97	7.98	7.97	7.96	7.97
2	Temperature(degree C)			23.1	23.1	23.1	23.1	23.1	23.1	23.1
3	Total Dissolved Solid (mg/L)	500.00	2000.00	183.7	183.6	183.8	183.8	183.9	183.6	183.4
4	Turbidity (NTU)	1.00	5.00	1.38	1.80	1.97	1.93	1.95	1.81	1.76
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.45	0.6	0.23	0.2	0.4	0.35	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. С	Chemical Test Results:				1	1			1	
7	Total Hardness (mg/L)	200.00	600.00	162.59	162.59	166.46	162.59	162.59	166.46	162.59
8	Total Alkalinity (mg/L)	200.00	600.00	143.50	143.50	143.50	139.40	139.40	143.50	143.50
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
10	Chloride (mg/L)	250/200	1000/1000	15.08	15.08	15.08	15.08	15.08	15.08	15.08
C .B	acteriological Test Results :		<u> </u>		•	•			•	•
11	Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	NF	NF	NF	NF	NF	NF	NF
12	Fecal Coliform (CFU/100 ml)	Absent/Absent	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. Sd/-Executive Engineer NTKD - I P.H.E. Dte.

Date of Testing: 24.12.2021

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>ACTION AREA -I, ZONE - II</u>

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

			Sub.: Water Te	sting (1 hysico c	nemicai & Chemi	car & Dacteriologic	<u>ui)</u>	Dute of Test	ung: 24.12.2021
Sl. No	Characteristic	Requirement (Acceptable	Permissible Limit in the absence of			SOURCE (I	PHE SUPPLY)		
		Limit)	alternate Source			ZO	NE - II		
		(IS 10500-2012)	(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	BA - 120	AB-72	AE-65	NEWTOWN BUS TERMINUS
A. Ph	ysico-chemical Test Results:							<u> </u>	
1	pH Value.	6.5-8.5	6.5-8.5	7.97	7.97	7.98	7.97	7.98	7.97
2	Temperature(degree C)			23.1	23.1	23.1	23.1	23.1	23.1
3	Total Dissolved Solid (mg/L)	500.00	2000.00	184.2	183.7	184.0	183.8	183.7	183.8
4	Turbidity (NTU)	1.00	5.00	1.78	1.71	1.73	1.77	1.96	1.65
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.5	0.6	0.2	0.35	0.3	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. С	hemical Test Results:	•	1		<u> </u>				
7	Total Hardness (mg/L)	200.00	600.00	162.59	158.71	162.59	158.71	158.71	158.71
8	Total Alkalinity (mg/L)	200.00	600.00	147.60	143.50	143.50	143.50	143.50	143.50
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	15.08	15.08	15.08	15.08	15.08	15.08
C .Ba	cteriological Test Results :								
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: 24.12.2021

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: 28.12.2021

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	vsico-chemical Test Results:		•			•	
1	pH Value.	6.5-8.5	6.5-8.5	7.99	7.96	7.98	7.99
2	Temperature(degree C)			23.8	23.3	23.2	23.0
3	Total Dissolved Solid(mg/L)	500.00	2000.00	187.5	190.5	190.6	189.7
4	Turbidity, (NTU)	1.00	5.00	1.94	1.93	1.94	1.99
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.4	0.6	0.6	0.8
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Ch	emical Test Results:					•	
7	Total Hardness, (mg/L)	200.00	600.00	158.71	158.71	158.71	158.71
8	Total Alkalinity, (mg/L)	200.00	600.00	147.60	147.60	147.60	147.60

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 (Physica Chemical & Chemica

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

Date of Testing: 28.12.2021

Sl.		Requirement	Permissible Limit		SOURCE (PI	HE SUPPLY)	
No	Characteristic	(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source		ZONI	E - IX	
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	RISHI TOWER	DAWAT RESTAURANT
A. P	Physico-chemical Test Results:						
1	pH Value.	6.5-8.5	6.5-8.5	7.84	7.92	7.96	7.95
2	Temperature(degree C)			23.8	24.3	23.9	23.8
3	Total Dissolved Solid. (mg/L)	500.00	2000.00	189.7	190.8	189.5	189.6
4	Turbidity, (NTU)	1.00	5.00	1.90	1.91	1.94	1.97
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.6	0.8	0.6	0.6
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (Chemical Test Results:						
7	Total Hardness, (mg/L)	200.00	600.00	158.71	162.59	158.71	158.71
8	Total Alkalinity, (mg/L)	200.00	600.00	147.60	151.70	147.60	147.60

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 HE EXECUTIVE ENGINEER. NEW TOWN KOLKATA WATER SUPPLY DIV

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>ACTION AREA -I, ZONE - II</u>

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

Sl. No	Characteristic	Requirement (Acceptable	Permissible Limit in the absence of			SOURCE (PHI	E SUPPLY)		
		Limit)	alternate Source			ZONE	- II		
		(IS 10500-2012)	(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	NEWTOWN BUS TERMINUS	BA - 120	AE-147	AB-13
A. Ph	nysico-chemical Test Results:				1	-			
1	pH Value.	6.5-8.5	6.5-8.5	8.23	8.24	8.26	8.28	8.28	8.27
2	Temperature(degree C)			23.1	23.1	23.1	23.1	23.1	23.1
3	Total Dissolved Solid (mg/L)	500.00	2000.00	186.8	186.4	186.7	187.1	186.8	187.1
4	Turbidity (NTU)	1.00	5.00	1.55	1.65	1.57	1.50	1.66	1.69
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.45	0.4	0.35	0.25	0.3	0.35
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. С	hemical Test Results:								
7	Total Hardness (mg/L)	200.00	600.00	147.10	147.10	150.97	150.97	147.10	147.10
8	Total Alkalinity (mg/L)	200.00	600.00	151.70	151.70	151.70	151.70	147.60	147.60
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	16.97	16.97	16.97	16.97	16.97	16.97
C .Ba	cteriological Test Results :								
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: 29.12.2021

TEST REPORT: ACTION AREA -I, ZONE - IV

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

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of			SOURC	E (PHE SUPP	LY)		
		(IS 10500-2012)	alternate Source (IS 10500-2012)			7	ZONE - IV			
			(INLET OF O.H.R.	OUTLET OF O.H.R.	SENIOR CITIZEN PARK	BE-17	BB-80	BC-105	BF-58
A. P	hysico-chemical Test Results:									
1	pH Value.	6.5-8.5	6.5-8.5	8.19	8.20	8.25	8.24	8.24	8.27	8.23
2	Temperature(degree C)			23.1	23.1	23.1	23.1	23.1	23.1	23.1
3	Total Dissolved Solid (mg/L)	500.00	2000.00	185.5	187.0	187.7	187.5	187.6	187.6	187.9
4	Turbidity (NTU)	1.00	5.00	1.43	1.56	1.58	1.49	1.87	1.68	1.78
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.5	0.4	0.2	0.3	0.35	0.35
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (Chemical Test Results:									
7	Total Hardness (mg/L)	200.00	600.00	147.10	150.97	150.97	150.97	147.10	150.97	150.97
8	Total Alkalinity (mg/L)	200.00	600.00	151.70	151.70	151.70	155.80	151.70	151.70	151.70
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	16.97	16.97	16.97	16.97	16.97	16.97	16.97
C.B	acteriological Test Results :			•		<u> </u>				
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 II D OVED HEAD DEC	1		1	1	ı L		l .	1	L

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: 29.12.2021

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 - V

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

Sl. No	Characteristic	Requirement	Permissible Limit			SOUI	RCE (PHE SUPP	PLY)		
NU		(Acceptable Limit)	in the absence of alternate Source				ZONE - V			
		(IS 10500-2012)	(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	CC-201	CD - 125	CC- 85	CA-81	CB-08
	A. Physico - chemical Test	Results:	1							
1	pH Value.	6.5-8.5	6.5-8.5	7.85	7.86	7.87	7.89	7.91	7.92	7.93
2	Temperature(degree C)			23.1	23.1	23.1	23.1	23.1	23.1	23.1
3	Total Dissolved Solid (mg/L)	500.00	2000.00	187.0	186.9	186.9	187.5	186.9	187.3	187.3
4	Turbidity (NTU)	1.00	5.00	1.53	1.74	1.91	1.95	1.72	1.79	1.68
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.5	0.2	0.25	0.3	0.4	0.35
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (Chemical Test Results:	1	1			1				
7	Total Hardness (mg/L)	200.00	600.00	174.20	178.07	178.07	178.07	178.07	181.94	181.94
8	Total Alkalinity (mg/L)	200.00	600.00	155.80	155.80	155.80	155.80	155.80	155.80	155.80
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
10	Chloride (mg/L)	250/200	1000/1000	16.97	16.97	16.97	16.97	16.97	16.97	16.97
C .B	acteriological Test Results :	•			•				•	•
11	Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	NF	NF	NF	NF	NF	NF	NF
12	Fecal Coliform (CFU/100 ml)	Absent/Absent	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. Sd/-Executive Engineer NTKD - I P.H.E. Dte.

Date of Testing: 30.12.2021

ACTION AREA – II (DECEMBER' 2021)

GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERING THE EXECUTIVE ENGINEER NEW TOWN KOLKATA WATER SUPPLY D

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)				CCE (PHE SUPPL	Y)		
				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	7.35	7.37	7.38	7.39	7.45	7.49	7.51
2	Temperature (degree C)			24.6	24.6	24.6	24.6	24.6	24.6	24.6
3	Total Dissolved Solid (mg/L)	500.00	2000.00	159.7	159.5	159.0	158.5	158.1	158.3	158.9
4	Turbidity (NTU)	1.00	5.00	1.73	1.84	1.81	1.87	1.52	1.54	1.75
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.25	0.45	0.2	0.45	0.35	0.25	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	133.42	133.42	137.23	133.42	133.42	133.42	133.42
8	Total Alkalinity (mg/L)	200.00	600.00	136.68	136.68	136.68	136.68	136.68	136.68	136.68
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	15.20	15.20	15.20	15.20	15.20	15.20	15.20
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: 02.12.2021

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

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)	f SOURCE (PHE SUPPLY) AA – IID, ZONE - V						
				INLET OF O.H.R.	OUTLET OF O.H.R.	ALATIKA	GREEN WOOD SONATA			
A. Phy	ysico-Chemical Test Results:									
1	pH Value.	6.5-8.5	6.5-8.5	7.60	7.62	7.60	7.65			
2	Temperature (degree C)			24.6	24.6	24.6	24.6			
3	Total Dissolved Solid (mg/L)	500.00	2000.00	159.9	160.0	159.1	158.7			
4	Turbidity (NTU)	1.00	5.00	1.97	1.98	1.96	1.95			
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.23	0.4	0.25	0.3			
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
B. C	hemical Test Results:	1	1	1	1		1			
7	Total Hardness (mg/L)	200.00	600.00	129.60	133.42	133.42	133.42			
8	Total Alkalinity (mg/L)	200.00	600.00	136.68	136.68	136.68	136.68			
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	15.20	15.20	15.20	15.20			
C. Ba	cteriological 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. Sd/-Executive Engineer NTKD - I P.H.E. Dte.

Date of Testing: 02.12.2021

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		SOURCE	(PHE SUPPLY)	
110		(IS 10500-2012)	alternate Source		AA – III	D, ZONE - VI	
			(IS 10500-2012)	INLET OF O.H.R	OUTLET OF O.H.R.	SHRACHI GREENWOOD ELEMENT	GREEN FIELD AMBITION
A. P	Physico-chemical Test Result	s:					
1	pH Value.	6.5-8.5	6.5-8.5	7.50	7.52	7.61	7.62
2	Temperature (degree C)			24.6	24.6	24.6	24.6
3	Total Dissolved Solid (mg/L)	500.00	2000.00	161.2	158.0	158.0	158.2
4	Turbidity (NTU)	1.00	5.00	1.81	1.82	1.91	1.83
5	Residual Free Chlorine (mg/L)	0.20	1.00	1.0	0.4	0.3	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В.	Chemical Test Results:						
7	Total Hardness (mg/L)	200.00	600.00	133.42	133.42	133.42	133.42
8	Total Alkalinity (mg/L)	200.00	600.00	136.68	136.68	136.68	136.68
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	15.20	15.20	15.20	15.20
C. 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: 02.12.2021

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	7.71	7.71	7.72
2	Temperature (degree C)			24.8	24.8	24.8
3	Total Dissolved Solid (mg/L)	500.00	2000.00	159.1	159.3	159.3
4	Turbidity (NTU)	1.00	5.00	1.41	1.85	1.81
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.5	0.45	0.4
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. С	Chemical Test Results:	1				
7	Total Hardness (mg/L)	200.00	600.00	137.23	137.23	137.23
8	Total Alkalinity (mg/L)	200.00	600.00	136.68	136.68	136.68

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: 06.12.2021

TEST REPORT: AA – II B, ZONE – IV

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

Characteristic Requirement Permissible Limit **SOURCE (PHE SUPPLY)** No (Acceptable Limit) in the absence of AA – IIB, ZONE - IV (IS 10500-2012) alternate Source (IS 10500-2012) INLET OF OUTLET HILAND ANAHITA MALANCHA NKDA ECO **SHILPI** O.H.R. OF O.H.R. WILLOWS MARKET **URBAN VILLA** VILLAGE A. Physico-chemical Test Results: pH Value. 7.93 7.95 7.91 7.92 7.93 7.96 7.97 7.98 6.5-8.5 6.5-8.5 Temperature (degree C) 26.8 26.8 26.8 26.8 26.8 26.8 26.8 26.8 Total Dissolved Solid (mg/L) 3 159.4 159.2 160.1 162.3 161.9 159.2 162.1 164.1 2000.00 500.00 Turbidity (NTU) 4 2.02 1.61 2.10 1.33 2.55 1.76 2.48 2.43 1.00 5.00 Residual Free Chlorine (mg/L) 0.3 0.2 5 0.35 0.45 0.3 0.35 0.25 0.4 0.20 1.00 Odour Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable 6 Agreeable Agreeable Agreeable **B.** Chemical Test Results: 7 Total Hardness (mg/L) 137.23 133.42 133.42 137.23 137.23 137.23 133.42 137.23 600.00 200.00 Total Alkalinity (mg/L) 140.70 136.68 140.70 140.70 136.68 132.66 136.68 136.68 200.00 600.00

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: 07.12.2021

TEST REPORT: AA – IIG, ZONE – XI

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. Ph	ysico-chemical Test Results:		l l			
1	pH Value.	6.5-8.5	6.5-8.5	7.98	7.97	7.98
2	Temperature (degree C)			26.8	26.8	26.8
3	Total Dissolved Solid (mg/L)	500.00	2000.00	161.2	160.2	160.3
4	Turbidity (NTU)	1.00	5.00	2.23	1.68	1.80
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.5	0.4
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. C	hemical Test Results:	•	1			
7	Total Hardness (mg/L)	200.00	600.00	137.23	137.23	137.23
8	Total Alkalinity (mg/L)	200.00	600.00	140.70	140.70	140.70

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: 07.12.2021

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)

SI. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source				CE (PHE SUPPL	Y)		
			(IS 10500-2012)			A	- HC, ZONE - 1			
				INLET	OUTLET	AKANKHA	NKDA MKT	STARLIT COMPLEX	HILAND WOODS	MOON BEAM
A. P	hysico-chemical Test Results	s:								
1	pH Value.	6.5-8.5	6.5-8.5	7.38	7.42	7.57	7.57	7.46	7.53	7.58
2	Temperature (degree C)			23.2	23.2	23.3	23.3	23.3	23.3	23.2
3	Total Dissolved Solid (mg/L)	500.00	2000.00	174.5	173.3	174.0	173.2	174.1	173.7	173.0
4	Turbidity (NTU)	1.00	5.00	1.52	2.25	2.13	1.85	1.51	1.91	1.71
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.5	0.6	0.3	0.55	0.35	0.2	0.5
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (Chemical Test Results:					1	ı			1
7	Total Hardness (mg/L)	200.00	600.00	139.36	135.49	139.36	135.49	139.36	139.36	139.36
8	Total Alkalinity (mg/L)	200.00	600.00	143.50	139.40	139.40	139.40	139.40	139.40	139.40

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: 14.12.2021

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

FFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION 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)

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of	SOURCE (PHE SUPPLY) AA – IID, ZONE - V					
		(15 10500-2012)	alternate Source (IS 10500-2012)						
				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	7.51	7.52	7.53		
2	Temperature (degree C)			23.2	23.2	23.2	23.2		
3	Total Dissolved Solid (mg/L)	500.00	2000.00	175.0	173.9	174.3	174.1		
4	Turbidity (NTU)	1.00	5.00	1.24	1.73	1.41	1.76		
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.45	0.6	0.4	0.45		
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
В. С	hemical Test Results:	1	1	1	1				
7	Total Hardness (mg/L)	200.00	600.00	135.49	139.36	139.36	139.36		
8	Total Alkalinity (mg/L)	200.00	600.00	139.40	143.50	139.40	139.40		

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: 14.12.2021

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)

Date of Testing: 14.12.2021

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of		SOURCE (PHE SUPPLY)					
110		(IS 10500-2012)	alternate Source	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	7.48	7.49	7.49	7.50			
2	Temperature (degree C)			23.2	23.2	23.2	23.2			
3	Total Dissolved Solid (mg/L)	500.00	2000.00	177.0	173.3	173.3	173.6			
4	Turbidity (NTU)	1.00	5.00	1.97	1.24	1.59	1.46			
5	Residual Free Chlorine (mg/L)	0.20	1.00	1.0	0.6	0.4	0.45			
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
B.	Chemical Test Results:									
7	Total Hardness (mg/L)	200.00	600.00	139.36	135.49	135.49	135.49			
8	Total Alkalinity (mg/L)	200.00	600.00	143.50	139.40	139.40	139.40			

O.H.R. - OVER HEAD RESERVOIR

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

NEW TOWN, RAJARHAT, KOLKATA – 700 156

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

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

			Sub Water Testing	(1 hysico enei	mear; encline	ar cc Ducterion	ogicai)		Date of Testing	. 10.12.2021			
Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/	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	NKDA MKT	ECO URBAN VILLAGE	SHILPI VILLA		
A. P	hysico-chemical Test Results:												
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.53	7.54	7.55	7.59	7.61	7.65	7.70	7.71		
2	Temperature (degree C)			23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2		
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	186.5	175.0	183.0	175.3	175.1	182.6	183.1	174.9		
4	Turbidity (NTU)	1/1	5/10	1.96	1.83	2.41	1.35	1.60	1.29	1.65	1.30		
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/1.0	0.35	0.55	0.3	0.2	0.35	0.45	0.4	0.4		
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
В. (Chemical Test Results:												
7	Total Hardness (mg/L)	200/200	600/600	143.23	139.36	143.23	139.36	139.36	143.23	143.23	139.36		
8	Total Alkalinity (mg/L)	200/200	600/600	143.50	139.40	143.50	143.40	139.40	143.40	143.40	143.40		
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	16.97	16.97	16.97	16.97	16.97	16.97	16.97	16.97		
С.В	acteriological Test Results :				•								
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.

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

Date of Testing: 16.12.2021

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 – IIG, ZONE – XI</u>

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

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. Phys	 					
1	pH Value.	6.5-8.5	6.5-8.5	7.98	7.97	7.95
2	Temperature (degree C)			23.2	23.2	23.2
3	Total Dissolved Solid (mg/L)	500.00	2000.00	180.2	179.2	179.1
4	Turbidity (NTU)	1.00	5.00	1.92	1.91	1.83
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.45	0.4
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chei	mical Test Results:					
7	Total Hardness (mg/L)	200.00	600.00	147.10	143.23	143.23
8	Total Alkalinity (mg/L)	200.00	600.00	147.60	143.50	143.50
9	Chloride (mg/L)	250.00	1000.00	<0.1	<0.1	<0.1
10	Iron(mg/L)	1.0	No Relaxation	16.97	16.97	16.97
C. Bact	eriological Test Results:					
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. Sd/-Executive Engineer NTKD - I P.H.E. Dte.

Date of Testing: 20.12.2021

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

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

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit t) in the absence of			SOUI	RCE (PHE SUPI	PLY)		
		(IS 10500-2012)	alternate Source			A	A – IIC, ZONE -	I		
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	AKANKHA	NKDA MKT	STARLIT COMPLEX	HILAND WOODS	MOON BEAM
A. 1	Physico-chemical Test Result	ts:		l						l
1	pH Value.	6.5-8.5	6.5-8.5	7.82	7.87	7.89	7.89	7.91	7.93	7.92
2	Temperature (degree C)			23.2	23.2	23.2	23.2	23.2	23.2	23.2
3	Total Dissolved Solid (mg/L)	500.00	2000.00	188.0	188.5	187.6	187.6	187.8	187.4	187.6
4	Turbidity (NTU)	1.00	5.00	1.71	1.75	1.98	1.71	1.71	1.73	1.78
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.35	0.5	0.25	0.45	0.3	0.2	0.4
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В.	Chemical Test Results:		,	1			1	1	1	1
7	Total Hardness (mg/L)	200.00	600.00	150.97	150.97	147.10	147.10	147.10	147.10	147.10
8	Total Alkalinity (mg/L)	200.00	600.00	147.60	151.70	147.60	147.60	147.60	147.60	147.60

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: 27.12.2021

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

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

SI. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)		SOURCE (PE		
				INLET OF O.H.R.	OUTLET OF O.H.R.	ALATIKA	GREEN WOOD
							SONATA
A. P	nysico-chemical Test Results:		1	1			1
1	pH Value.	6.5-8.5	6.5-8.5	7.93	7.97	7.98	7.99
2	Temperature (degree C)			23.2	23.2	23.2	23.2
3	Total Dissolved Solid (mg/L)	500.00	2000.00	187.3	187.2	187.1	187.4
4	Turbidity (NTU)	1.00	5.00	1.87	1.84	1.81	1.91
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.35	0.3	0.25
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (Chemical Test Results:						
7	Total Hardness (mg/L)	200.00	600.00	147.10	147.10	147.10	147.10
8	Total Alkalinity (mg/L)	200.00	600.00	151.70	151.70	151.70	151.70

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: 27.12.2021

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)

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of		SOURCE (PHE SUPPLY)		
		(IS 10500-2012)	alternate Source (IS 10500-2012)		AA – IID	ID, ZONE - VI		
			(13 10300-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	SHRACHI GREEN WOOD ELEMENT	GREEN FIELD AMBITION	
A. P	hysico-chemical Test Results:			1				
1	pH Value.	6.5-8.5	6.5-8.5	7.97	7.95	7.98	7.99	
2	Temperature (degree C)			23.2	23.2	23.2	23.2	
3	Total Dissolved Solid (mg/L)	500.00	2000.00	187.2	187.8	187.6	187.6	
4	Turbidity (NTU)	1.00	5.00	1.71	1.75	1.72	1.75	
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.5	0.4	0.35	
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	
В.	Chemical Test Results:							
7	Total Hardness (mg/L)	200.00	600.00	147.10	143.23	147.10	143.23	
8	Total Alkalinity (mg/L)	200.00	600.00	151.70	151.70	151.70	147.60	

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: 27.12.2021

TEST REPORT: AA – II A, ZONE – X

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

Date of Testing: 31.12.2021

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of		SOURCE (PHE SUPPLY)	
110		(IS 10500-2012)	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
1	pH Value.	6.5-8.5	6.5-8.5	7.94	7.97	7.98
2	Temperature (degree C)			23.1	23.1	23.1
3	Total Dissolved Solid (mg/L)	500.00	2000.00	190.4	198.2	197.8
4	Turbidity (NTU)	1.00	5.00	1.27	1.61	1.43
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.43	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (Chemical Test Results:	-				
7	Total Hardness (mg/L)	200.00	600.00	162.59	162.59	162.59
8	Total Alkalinity (mg/L)	200.00	600.00	155.80	155.80	155.80

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)

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of	SOURCE (PHE 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. Physico-chemical Test Results:											
1	pH Value.	6.5-8.5	6.5-8.5	8.01	7.95	7.85	7.89	7.83	7.90	7.86	7.90
2	Temperature (degree C)			23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
3	Total Dissolved Solid (mg/L)	500.00	2000.00	190.0	191.0	192.3	192.5	191.9	190.8	192.3	190.3
4	Turbidity (NTU)	1.00	5.00	1.64	1.40	1.26	1.56	1.59	1.53	1.61	1.70
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.55	0.3	0.25	0.33	0.4	0.4	0.45
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:											
7	Total Hardness (mg/L)	200.00	600.00	162.59	162.59	162.59	162.59	158.71	158.71	162.59	162.59
8	Total Alkalinity (mg/L)	200.00	600.00	155.80	155.80	155.80	155.80	155.80	155.80	155.80	155.80

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: 31.12.2021