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

ACTION AREA – I (NOVEMBER' 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)

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate	the absence alternate ZONE - VI									
		(IS 10500- 2012)	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/48	CE-137		
	A. Physico - chemical	Test Results:	,		1	1	•	1		•	1		
1	pH Value.	6.5-8.5	6.5-8.5	7.56	7.54	7.55	7.56	7.57	7.55	7.55	7.56		
2	Temperature(degree C)			26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8		
3	Total Dissolved Solid (mg/L)	500.00	2000.00	121.4	122.0	121.8	122.0	121.7	122.0	121.8	121.4		
4	Turbidity (NTU)	1.00	5.00	1.15	1.14	1.12	1.10	1.24	1.16	1.12	1.10		
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.55	0.35	0.35	0.3	0.2	0.25	0.4		
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
	B. Chemical Test Resul	ts:	I		1	<u> </u>	I	<u> </u>		I	<u> </u>		
7	Total Hardness (mg/L)	200.00	600.00	115.68	115.68	111.69	115.68	111.69	115.68	111.69	111.69		
8	Total Alkalinity (mg/L)	200.00	600.00	93.66	98.12	93.66	98.12	93.66	98.12	93.66	93.66		

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: 01.11.2021

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: 01.11.2021

Sl. No	Characteristic	Requirement (Acceptable	Permissible Limit in the absence of	SOURCE (PHE SUPPLY)								
		Limit) (IS 10500- 2012)	alternate Source (IS 10500-2012)	ZONE - V								
				INLET OF	OUTLET OF	CC-201	CD - 125	CA- 81	CB-08	CB-162		
				O.H.R.	O.H.R.							
	A. Physico - chemical Test l	Results:										
1	pH Value.	6.5-8.5	6.5-8.5	7.57	7.56	7.57	7.59	7.60	7.61	7.60		
2	Temperature(degree C)			26.8	26.8	26.8	26.8	26.8	26.8	26.8		
3	Total Dissolved Solid (mg/L)	500.00	2000.00	121.6	122.5	121.6	121.7	121.8	121.7	121.9		
4	Turbidity (NTU)	1.00	5.00	1.15	1.10	1.11	1.10	1.08	1.20	1.29		
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.35	0.5	0.2	0.15	0.4	0.3	0.3		
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	111.69	115.68	111.69	111.69	111.69	111.69	111.69		
8	Total Alkalinity (mg/L)	200.00	600.00	93.66	98.12	93.66	93.66	93.66	93.66	93.66		

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 – VII

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

SOURCE (PHE SUPPLY) Sl. Permissible Characteristic Requirement No (Acceptable Limit ZONE - VII Limit) in the absence (IS 10500-2012) of alternate Source INLET OF **OUTLET OF** DC-57 HIDCO DF - 94 DC-248 DC-105 DC-115 DC-159 DC-251 (IS 10500-2012) O.H.R. O.H.R. ADMIN BUILDING A. Physico-chemical Test Results: pH Value. 7.91 7.89 7.90 7.71 7.68 7.89 7.94 7.96 7.97 7.95 6.5-8.5 6.5-8.5 26.8 26.8 26.8 Temperature(degree C) 26.8 26.8 26.8 26.8 26.8 26.8 26.8 3 **Total Dissolved Solid.** 132.2 123.5 125.5 123.5 123.3 123.4 131.1 123.8 123.0 123.4 500.00 2000.00 4 Turbidity, (NTU) 1.42 0.86 0.78 1.17 1.08 1.20 1.28 1.04 0.76 1.05 5.00 1.00 0.5 0.45 0.4 0.3 0.3 0.2 **Residual Free Chlorine** 0.6 0.1 0.35 0.25 0.20 1.00 Odour Agreeable **B.** Chemical Test Results: 111.69 Total Hardness, (mg/L) 115.68 115.68 115.68 119.67 111.69 111.69 111.69 111.69 111.69 200.00 600.00 Total Alkalinity, (mg/L) 98.12 98.12 98.12 102.58 98.12 98.12 98.12 98.12 98.12 98.12

200.00 O.H.R. - OVER HEAD RESERVOIR

600.00

-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: 03.11.2021

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>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 (PH	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-132	BA-91
A. Ph	ysico-chemical Test Results:					<u>l</u>			
1	pH Value.	6.5-8.5	6.5-8.5	7.45	7.55	7.57	7.61	7.63	7.65
2	Temperature(degree C)			25.7	25.7	25.7	25.7	25.7	25.7
3	Total Dissolved Solid (mg/L)	500.00	2000.00	128.6	128.4	128.3	128.4	128.2	128.5
4	Turbidity (NTU)	1.00	5.00	0.83	0.75	0.78	0.96	0.80	0.95
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.5	0.5	0.35	0.3	0.4	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. С	hemical Test Results:								
7	Total Hardness (mg/L)	200.00	600.00	115.68	115.68	115.68	115.68	115.68	115.68
8	Total Alkalinity (mg/L)	200.00	600.00	107.04	107.04	107.04	107.04	107.04	107.04
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	13.38	13.38	13.38	13.38	13.38	13.38
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: 08.11.2021

TEST REPORT: ACTION AREA -I , ZONE - IV

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

1	o-chemical Test Results: pH Value. Cemperature(degree C)	(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source (IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	SENIOR CITIZEN	ONE - IV BE-17									
1 2 Te 3 Tot 4 5 Resid	pH Value.	6585					RF-17									
1 2 Te 3 Tot 4 5 Resid	pH Value.	6585				PARK	DL-17	BB-80	BC-105	BF-58						
2 Te 3 Tot 4 5 Resid	*	6585		•				<u> </u>								
3 Tot 4 5 Resid	Cemperature(degree C)	0.5-0.5	6.5-8.5	7.47	7.55	7.62	7.66	7.65	7.65	7.69						
4 5 Resid				25.9	25.5	25.5	25.9	25.9	25.6	25.7						
5 Resid	otal Dissolved Solid (mg/L)	500.00	2000.00	127.9	127.6	128.5	128.5	128.3	128.0	128.8						
6	Turbidity (NTU)	1.00	5.00	1.39	1.25	0.98	1.29	1.27	0.97	1.21						
	sidual Free Chlorine (mg/L)	0.20	1.00	0.45	0.4	0.3	0.15	0.4	0.35	0.3						
B. Chemic	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable						
_	ical Test Results:															
7	Total Hardness (mg/L)	200.00	600.00	107.70	107.70	111.69	111.69	111.69	111.69	111.69						
8 T	Total Alkalinity (mg/L)	200.00	600.00	98.12	98.12	102.58	102.58	102.58	102.58	102.58						
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	13.38	13.38	15.05	15.05	15.05	15.05	13.38						
C .Bacterio	alasiaal Tast Dassita	,		•	•			,								
11 Tota	ological Test Results :	Absent	Absent	NF	NF	NF	NF	NF	NF	NF						
12 Feca	ological Test Results : tal Coliform (CFU/100 ml)	1		NF	1	1		· ·		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: 08.11.2021

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)

Date of Testing: 09.11.2021

Sl.	Characteristic	Requirement	Permissible			,	SOURCE (PH				
No		(Acceptable	Limit				ZONE	- VI			
		Limit) (IS 10500-2012)	in the absence of alternate	INLET OF	OUTLET OF	NBCC	CE /1/A/97	CE -74	CE-197	CE-1/C/46	CE-1/C/52
			Source	O.H.R.	O.H.R.	NBCC	CE/I/A/9/	CE -/4	CE-197	CE-1/C/40	CE-1/C/32
			(IS 10500-2012)	V 12-12-11	0.22.23						
	A. Physico - chemical T	Test Results:									
1	pH Value.	6.5-8.5	6.5-8.5	7.59	7.62	7.65	7.49	7.60	7.63	7.66	7.65
2	Temperature(degree C)			25.5	25.5	25.5	25.7	25.7	25.7	25.7	25.7
3	Total Dissolved Solid (mg/L)	500.00	2000.00	129.8	129.9	130.1	129.6	130.1	129.9	129.7	130.1
4	Turbidity (NTU)	1.00	5.00	0.92	1.19	1.05	1.32	0.97	0.99	1.10	1.03
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.35	0.55	0.4	0.25	0.3	0.35	0.3	0.35
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	B. Chemical Test Resul	its:									
7	Total Hardness (mg/L)	200.00	600.00	115.68	115.68	119.67	115.68	119.67	115.68	115.68	119.67
8	Total Alkalinity (mg/L)	200.00	600.00	98.12	98.12	98.12	98.12	98.12	98.12	98.12	98.12
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	13.38	13.38	13.38	13.38	13.38	13.38	13.38	13.38
	C. Bacteriological Test Results	5 :								•	
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.

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			SOUR	CE (PHE SUPPLY	Y)		
1,0		Limit)	alternate Source				ZONE - III			
		(IS 10500-2012)	(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R	AL/1/C/28	NKDA Off.	AL/1/C/40	AI/153/18	AI/18
	A. Physico-chemi	cal Test Results :								
1	pH Value.	6.5-8.5	6.5-8.5	7.43	7.55	7.53	7.52	7.52	7.51	7.53
2	Temperature(degree C)			25.8	25.8	25.8	25.8	25.8	25.7	25.8
3	Total Dissolved Solid (mg/L)	500.00	2000.00	130.5	130.6	130.8	130.8	130.4	130.4	130.8
4	Turbidity, (NTU)	1.00	5.00	0.94	0.61	1.15	1.24	1.61	1.45	0.75
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.6	0.3	0.4	0.2	0.35	0.45
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	B. Chemical Test	Results:	1				1			
7	Total Hardness, (mg/L)	200.00	600.00	119.67	119.67	119.67	119.67	119.67	119.67	119.67
8	Total Alkalinity, (mg/L)	200.00	600.00	102.58	102.58	102.58	102.58	102.58	102.58	102.58
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	13.38	13.38	13.38	13.38	13.38	13.38	13.38
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

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: 09.11.2021

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

OFFICE 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: ACTION AREA -I, ZONE - I

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

Date of Testing: 12.11.2021

Sl. No	Characteristic	Requirement (Acceptable	Permissible Limit in the absence of			SOURCE (P	HE SUPPLY)		
		Limit) (IS 10500-2012)	alternate Source			ZON	E - I		
		(15 10500-2012)	(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	AD - 17	AA- 05	AD-26	AC - 50
A. P	hysico-chemical Test Results:								
1	pH Value.	6.5-8.5	6.5-8.5	7.48	7.45	7.41	7.42	7.45	7.48
2	Temperature (degree C)			26.1	26.1	26.1	26.1	26.1	26.1
3	Total Dissolved Solid (mg/L)	500.00	2000.00	136.6	136.0	136.6	136.0	136.1	136.1
4	Turbidity (NTU)	1.00	5.00	1.34	0.81	0.85	0.78	0.94	1.31
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.55	0.6	0.4	0.3	0.35	0.45
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (Chemical Test Results:								
7	Total Hardness (mg/L)	200.00	600.00	123.66	123.66	123.66	123.66	123.66	123.66
8	Total Alkalinity (mg/L)	200.00	600.00	107.04	107.04	107.04	107.04	107.04	107.04
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	15.05	15.05	15.05	15.05	15.05	15.05
C.B	acteriological Test Results :	•					L	L	L
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,

-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: ACTION AREA - I, ZONE - V

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

Sl. No	Characteristic	Requirement (Acceptable	Permissible Limit in the absence of			SOUI	RCE (PHE SUPP	PLY)		
110		Limit)	alternate Source				ZONE - V			
		(IS 10500-2012)	(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	CC-201	CB - 180	CA- 81	CB-08	CA-245
	A. Physico - chemical Test	Results:			<u> </u>				•	
1	pH Value.	6.5-8.5	6.5-8.5	7.57	7.61	7.65	7.68	7.71	7.70	7.72
2	Temperature(degree C)			25.2	25.2	25.2	25.2	25.2	25.2	25.2
3	Total Dissolved Solid (mg/L)	500.00	2000.00	143.5	143.3	144.5	145.5	144.1	143.9	144.0
4	Turbidity (NTU)	1.00	5.00	0.93	0.80	0.78	1.33	0.82	0.97	0.99
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.25	0.35	0.1	0.15	0.25	0.2	0.2
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	130.43	126.60	130.43	130.43	126.60	126.60	130.43
8	Total Alkalinity (mg/L)	200.00	600.00	125.86	121.52	125.86	125.86	121.52	121.52	125.86
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	17.10	17.10	17.10	17.10	17.10	17.10	17.10
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: 18.11.2021

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

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

Date of Testing: 18.11.2021

Sl.	Characteristic	Requirement	Permissible Limit			SOURCE (P	PHE SUPPLY)		
No		(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source (IS 10500-2012)			ZON	E - VII		
				INLET	OUTLET OF	DC-232	HIDCO ADMIN	DF - 94	DC-248
				OF O.H.R.	O.H.R.		BUILDING		
A. P	hysico-chemical Test Results:						1		
1	pH Value.	6.5-8.5	6.5-8.5	7.69	7.68	7.69	7.70	7.66	7.69
2	Temperature(degree C)			25.2	25.2	25.2	25.5	25.2	25.2
3	Total Dissolved Solid.	500.00	2000.00	144.1	144.0	144.4	145.5	144.3	144.3
4	Turbidity, (NTU)	1.00	5.00	1.02	1.05	0.76	1.51	1.71	0.79
5	Residual Free Chlorine	0.20	1.00	0.3	0.45	0.2	0.1	0.3	0.35
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. С	Chemical Test Results:								
7	Total Hardness, (mg/L)	200.00	600.00	130.43	130.43	130.43	134.27	130.43	130.43
8	Total Alkalinity, (mg/L)	200.00	600.00	121.52	121.52	121.52	125.86	121.52	121.52
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
10	Chloride (mg/L)	250/200	1000/1000	17.10	17.10	17.10	17.10	17.10	17.10
C.B	acteriological Test Results :								
11	Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	NF	NF	NF	NF	NF	NF
12	Fecal Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	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.

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: 22.11.2021

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit		SOURCE (I	PHE SUPPLY)	
NO		(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	vsico-chemical Test Results:					•	
1	pH Value.	6.5-8.5	6.5-8.5	7.57	7.52	7.57	7.60
2	Temperature(degree C)			26.0	26.0	26.0	26.0
3	Total Dissolved Solid(mg/L)	500.00	2000.00	147.5	147.7	147.9	147.8
4	Turbidity, (NTU)	1.00	5.00	1.17	0.88	0.97	1.14
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.1	0.35	0.2	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Ch	emical Test Results:						
7	Total Hardness, (mg/L)	200.00	600.00	126.60	126.60	130.43	130.43
8	Total Alkalinity, (mg/L)	200.00	600.00	121.52	121.52	121.52	121.52
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	17.10	17.10	17.10	17.10
C .Bac	eteriological Test Results :				I		
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 SUPP	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	GREAT MEDIA BUILDING
A. P	hysico-chemical Test Results:				<u>.</u>			
1	pH Value.	6.5-8.5	6.5-8.5	7.58	7.57	7.59	7.56	7.51
2	Temperature(degree C)			26.0	26.0	26.0	26.0	26.0
3	Total Dissolved Solid. (mg/L)	500.00	2000.00	147.8	148.3	147.9	147.2	147.3
4	Turbidity, (NTU)	1.00	5.00	1.47	0.98	1.13	0.87	0.74
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.3	0.4	0.25	0.3	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. С	Chemical Test Results:	1		1	1	-		1
7	Total Hardness, (mg/L)	200.00	600.00	130.43	126.60	130.43	130.43	130.43
8	Total Alkalinity, (mg/L)	200.00	600.00	121.52	121.52	121.52	121.52	121.52
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	17.10	17.10	17.10	17.10	17.10
С.В	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: 22.11.2021

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

Date of Testing: 25.11.2021

Sl.	Characteristic	Requirement	Permissible				SOURCE (PH	IE SUPPLY)			
No		(Acceptable	Limit				ZONE	- VIII			
		Limit)	in the absence		1		1			1	T
		(IS 10500-	of alternate	INLET OF	OUTLET OF	DA-30	DC-23	DA-88	DB-222	DC-12	DA-27
		2012)	Source	O.H.R.	O.H.R.						
			(IS 10500-2012)								
A. Ph	ysico-chemical Test Results:										
1	pH Value.	6.5-8.5	6.5-8.5	7.61	7.65	7.67	7.68	7.71	7.72	7.74	7.75
2	Temperature(degree C)			26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
3	Total Dissolved Solid.	500.00	2000.00	157.2	156.5	156.8	154.8	154.6	149.2	149.7	149.0
4	Turbidity. (NTU)	1.00	5.00	1.39	1.51	1.29	1.11	1.13	1.36	1.19	0.98
5	Residual Free Chlorine	0.20	1.00	0.4	0.5	0.1	0.25	0.2	0.35	0.35	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. C	hemical Test Results:										
7	Total Hardness. (mg/L)	200.00	600.00	130.43	130.43	130.43	130.43	130.43	130.43	126.60	130.43
8	Total Alkalinity. (mg/L)	200.00	600.00	121.52	121.52	121.52	121.52	121.52	121.52	121.52	121.52
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	15.20	15.20	15.20	15.20	15.20	15.20	15.20	15.20
C.B	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.

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 – VII

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

SOURCE (PHE SUPPLY) Sl. Characteristic Requirement Permissible No (Acceptable Limit **ZONE - VII** Limit) in the absence (IS 10500-2012) of alternate Source INLET OF OUTLET OF DC-57 HIDCO DF - 94 DC-248 DC-226 (IS 10500-2012) O.H.R. O.H.R. ADMIN BUILDING A. Physico-chemical Test Results: pH Value. 1 7.49 7.53 7.61 7.58 7.59 7.65 7.66 6.5-8.5 6.5-8.5 **Temperature**(degree C) 25.1 25.1 25.1 25.1 25.1 25.1 25.1 ----**Total Dissolved Solid.** 149.6 150.1 150.5 150.6 150.7 151.7 150.6 500.00 2000.00 4 Turbidity, (NTU) 0.91 0.63 0.90 0.91 0.99 1.07 0.66 1.00 5.00 **Residual Free Chlorine** 0.4 0.5 0.4 0.1 0.2 0.3 0.25 0.20 1.00 6 Odour Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable **B.** Chemical Test Results: Total Hardness, (mg/L) 130.43 130.43 130.43 130.43 130.43 130.43 134.26 200.00 600.00 Total Alkalinity, (mg/L) 143.22 143.22 143.22 143.22 143.22 143.22 143.22 200.00 600.00

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: 26.11.2021

TEST REPORT: ACTION AREA -I, ZONE - IV

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

SI. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate			SOURCE (PHE SUPPLY) ZONE - IV						
		(15 10500 2012)	of dittillate	INLET OF O.H.R.	OUTLET OF O.H.R.	SENIOR CITIZEN PARK	BE-17	BB-50	BC-105	BF-27	BC-49	
A. P	hysico-chemical Test Results	5:										
1	pH Value.	6.5-8.5	6.5-8.5	7.67	7.65	7.68	7.70	7.72	7.71	7.70	7.72	
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	150.4	150.6	150.9	150.7	150.3	150.5	150.6	150.4	
4	Turbidity (NTU)	1.00	5.00	0.68	0.81	0.91	0.65	0.82	0.97	0.95	0.92	
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.5	0.55	0.45	0.25	0.3	0.15	0.3	0.4	
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	
В. (Chemical Test Results:	l			l l		1					
7	Total Hardness (mg/L)	200.00	600.00	134.27	130.43	130.43	130.43	130.43	130.43	130.43	130.43	
8	Total Alkalinity (mg/L)	200.00	600.00	143.22	143.22	143.22	143.22	143.22	143.22	143.22	143.22	

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: 26.11.2021

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 - I</u>

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

Sl. No	Characteristic	Requirement	Permissible Limit	SOURCE (PHE SUPPLY) ZONE - I								
110		(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source									
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	AD - 17	AA- 05	AC - 107	AC - 50			
A. 1	Physico-chemical Test Result	ts:										
1	pH Value.	6.5-8.5	6.5-8.5	7.55	7.57	7.58	7.61	7.62	7.63			
2	Temperature(degree C)			25.1	25.1	25.1	25.1	25.1	25.1			
3	Total Dissolved Solid (mg/L)	500.00	2000.00	152.7	153.0	153.0	153.2	153.3	153.1			
4	Turbidity (NTU)	1.00	5.00	0.94	0.75	1.04	0.74	0.88	0.98			
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.5	0.3	0.2	0.3	0.2			
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
В.	Chemical Test Results:		,				•					
7	Total Hardness (mg/L)	200.00	600.00	134.27	134.27	134.27	134.27	134.27	134.27			
8	Total Alkalinity (mg/L)	200.00	600.00	138.88	138.88	138.88	138.88	138.88	138.88			

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: 29.11.2021

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)

Sl. No	Characteristic	Requirement (Acceptable	Permissible Limit			SOURCE (PHE SI	UPPLY)		
		Limit) (IS 10500-	in the absence			ZONE - II			
		2012)	of alternate Source (IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	NEWTOWN BUS TERMINUS	BA - 120	AB- 72	AB - 13
A. Pł	nysico-chemical Test Results:								
1	pH Value.	6.5-8.5	6.5-8.5	7.65	7.66	7.65	7.66	7.67	7.68
2	Temperature(degree C)			25.1	25.1	25.1	25.1	25.1	25.1
3	Total Dissolved Solid (mg/L)	500.00	2000.00	153.6	153.4	153.5	153.6	153.3	153.3
4	Turbidity (NTU)	1.00	5.00	0.98	0.94	0.82	1.28	1.23	0.73
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.4	0.2	0.2	0.3	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. С	Chemical Test Results:	l.							
7	Total Hardness (mg/L)	200.00	600.00	134.27	134.27	134.27	134.27	134.27	134.27
8	Total Alkalinity (mg/L)	200.00	600.00	138.88	138.88	138.88	138.88	138.88	138.88

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: 29.11.2021

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

TEST REPORT: AA – I, ZONE – III

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

SOURCE (PHE SUPPLY) Sl. Characteristic Requirement **Permissible Limit** No (Acceptable in the absence of ZONE - III Limit) alternate Source (IS 10500-2012) (IS 10500-2012) INLET OF **OUTLET OF** AL/1/C/28 NKDA Off. AL/1/C/40 AI/153/18 AL-1/C/11 O.H.R. O.H.R A. Physico-chemical Test Results: pH Value. 7.77 7.74 7.75 7.77 7.78 7.79 7.80 6.5-8.5 6.5-8.5 2 Temperature(degree C) 25.3 25.3 25.3 25.3 25.3 25.3 25.3 ----3 Total Dissolved Solid (mg/L) 153.5 154.3 155.2 155.3 155.2 155.1 156.0 500.00 2000.00 Turbidity, (NTU) 4 1.36 0.89 0.88 0.74 0.88 0.71 0.80 1.00 5.00 Residual Free Chlorine (mg/L) 5 0.4 0.6 0.45 0.4 0.25 0.45 0.42 1.00 0.20 6 Odour Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable **B.** Chemical Test Results: Total Hardness, (mg/L) 134.27 134.27 134.27 134.27 134.27 134.27 134.27 600.00 200.00 Total Alkalinity, (mg/L) 134.54 8 130.20 130.20 130.20 130.20 130.20 130.20

600.00

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

200.00

-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: 30.11.2021

NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: ACTION AREA -I, ZONE - IV

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

Date of Testing: 30.11.2021

Sl. No	Characteristic	Requirement (Acceptable	Permissible Limit in the absence of			SOURCE (PH			
		Limit) (IS 10500-2012)	alternate Source (IS 10500-2012)			ZONE	- IV		
				INLET OF O.H.R.	OUTLET OF O.H.R.	NBCC	CE/1/A/97	CE-74	CE-184
A. P	Physico-chemical Test Result	ts:							
1	pH Value.	6.5-8.5	6.5-8.5	7.80	7.82	7.84	7.84	7.92	7.91
2	Temperature(degree C)			25.3	25.3	25.3	25.3	25.3	25.3
3	Total Dissolved Solid (mg/L)	500.00	2000.00	154.7	154.8	155.0	153.1	154.9	155.1
4	Turbidity (NTU)	1.00	5.00	0.94	1.12	1.17	1.06	0.88	1.22
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.5	0.35	0.25	0.4	0.1
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (Chemical Test Results:								
7	Total Hardness (mg/L)	200.00	600.00	138.11	138.11	134.27	134.27	134.27	134.27
8	Total Alkalinity (mg/L)	200.00	600.00	130.20	134.54	130.20	130.20	130.20	130.20

O.H.R. - OVER HEAD RESERVOIR

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

ACTION AREA – II (NOVEMBER' 2021)

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

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

Sl. No	Characteristic	(Acceptable Limit) in the absence			SOURCE (PHE SUPPLY)				
		(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	pH Value.	6.5-8.5	6.5-8.5	7.70	7.72	7.69			
2	Temperature (degree C)			26.8	26.8	26.8			
3	Total Dissolved Solid (mg/L)	500.00	2000.00	131.0	122.8	122.6			
4	Turbidity (NTU)	1.00	5.00	1.91	1.32	1.45			
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.6	0.5	0.35			
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
В. (Chemical Test Results:		·						
7	Total Hardness (mg/L)	200.00	600.00	119.67	115.68	115.68			
8	Total Alkalinity (mg/L)	200.00	600.00	102.58	98.12	98.12			

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: 02.11.2021

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 – II B, ZONE – IV</u>

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

Date of Testing: 02.11.2021

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/				SOURCE	(PHE SUPPLY	<i>Y</i>)				
		(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	7.80	7.86	7.37	7.46	7.48	7.47	7.46	7.65		
2	Temperature (degree C)			26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8		
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	129.9	123.6	123.0	123.3	123.1	132.0	132.6	130.0		
4	Turbidity (NTU)	1/1	5/10	1.90	1.26	1.50	1.69	1.85	2.02	1.83	1.61		
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/1.0	0.65	0.61	0.45	0.31	0.35	0.41	0.55	0.45		
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	115.68	111.69	111.69	111.69	111.69	115.68	119.67	119.67		
8	Total Alkalinity (mg/L)	200/200	600/600	98.12	98.12	98.12	98.12	98.12	98.12	102.58	102.58		

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 – 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	7.33	7.35	7.34	7.35	7.38	7.36	7.38
2	Temperature (degree C)			25.9	25.9	25.9	25.9	25.9	25.9	25.9
3	Total Dissolved Solid (mg/L)	500.00	2000.00	143.8	144.0	144.7	144.7	144.9	144.9	144.4
4	Turbidity (NTU)	1.00	5.00	1.46	1.28	1.20	1.32	1.24	0.95	1.20
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.5	0.2	0.35	0.3	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	118.92	118.92	118.92	118.92	122.76	122.76	118.92
8	Total Alkalinity (mg/L)	200.00	600.00	112.84	112.84	112.84	112.84	117.18	117.18	112.84
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	17.10	17.10	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: 17.11.2021

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 – 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 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	7.44	7.46	7.51	7.53			
2	Temperature (degree C)			25.9	25.9	25.9	25.9			
3	Total Dissolved Solid (mg/L)	500.00	2000.00	145.2	144.1	144.1	144.2			
4	Turbidity (NTU)	1.00	5.00	1.25	1.08	1.35	1.67			
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.45	0.35	0.3			
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
B. C	hemical Test Results:		-							
7	Total Hardness (mg/L)	200.00	600.00	130.43	122.76	122.76	130.43			
8	Total Alkalinity (mg/L)	200.00	600.00	125.86	121.52	121.52	121.52			
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	17.10	17.10	17.10	17.10			
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: 17.11.2021

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	7.30	7.41	7.42	7.43
2	Temperature (degree C)			25.9	25.9	25.9	25.9
3	Total Dissolved Solid (mg/L)	500.00	2000.00	146.4	143.4	143.5	143.6
4	Turbidity (NTU)	1.00	5.00	1.52	1.45	1.48	1.39
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.8	0.35	0.45	0.4
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В.	Chemical Test Results:						
7	Total Hardness (mg/L)	200.00	600.00	122.76	118.92	122.76	122.76
8	Total Alkalinity (mg/L)	200.00	600.00	112.84	112.84	112.84	112.84
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: 17.11.2021

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. Physi	 ico-chemical Test Results:					
1	pH Value.	6.5-8.5	6.5-8.5	7.51	7.51	7.56
2	Temperature (degree C)			26.0	26.0	26.0
3	Total Dissolved Solid (mg/L)	500.00	2000.00	147.8	147.2	147.3
4	Turbidity (NTU)	1.00	5.00	1.25	0.94	0.79
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.45	0.5	0.4
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Cher	mical Test Results:					
7	Total Hardness (mg/L)	200.00	600.00	130.43	130.43	130.43
8	Total Alkalinity (mg/L)	200.00	600.00	121.52	121.52	121.52
9	Chloride (mg/L)	250.00	1000.00	<0.1	<0.1	<0.1
10	Iron(mg/L)	1.0	No Relaxation	17.10	17.10	17.10
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: 22.11.2021

TEST REPORT: AA – II A, ZONE – X

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

SI. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of		SOURCE (PHE SUPPLY)	
		(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. Pl	nysico-chemical Test Results:	1				
1	pH Value.	6.5-8.5	6.5-8.5	7.56	7.65	7.69
2	Temperature (degree C)			26.1	26.1	26.1
3	Total Dissolved Solid (mg/L)	500.00	2000.00	149.4	149.7	149.8
4	Turbidity (NTU)	1.00	5.00	1.52	1.46	1.31
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.6	0.45
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
в. С	Chemical Test Results:					
7	Total Hardness (mg/L)	200.00	600.00	130.43	130.43	130.43
8	Total Alkalinity (mg/L)	200.00	600.00	121.52	121.52	121.52
9	Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250.00	1000.00	15.20	15.20	15.20
C .Ba	acteriological Test Results :		<u> </u>			
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: 24.11.2021

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

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

Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/	SOURCE (PHE SUPPLY)									
	(IS 10500-2012)/	(CPHEEO)				AA – I	IB, ZONE – IV					
	(СРНЕЕО)		INLET OF O.H.R.	OUTLET OF O.H.R.	HILAND WOODS	ANAHITA	MALANCHA	NKDA MKT	ECO URBAN VILLAGE	SHILPI VILLA		
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	7.55	7.55	7.49	7.53	7.49	7.48	7.49	7.54		
Temperature (degree C)			26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1		
Total Dissolved Solid (mg/L)	500/500	2000/2000	165.7	157.9	157.3	158.2	151.4	151.5	151.5	150.1		
Turbidity (NTU)	1/1	5/10	1.96	1.98	1.39	1.42	1.37	1.66	1.59	1.34		
Residual Free Chlorine (mg/L)	0.2/0.2	0.2/1.0	0.3	0.45	0.3	0.25	0.2	0.4	0.4	0.3		
Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
Chemical Test Results:						•						
Total Hardness (mg/L)	200/200	600/600	130.43	130.43	130.43	130.43	130.43	126.60	126.60	126.60		
Total Alkalinity (mg/L)	200/200	600/600	125.86	125.86	125.86	125.86	125.86	121.52	121.52	121.52		
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		
Chloride (mg/L)	250/200	1000/1000	17.10	17.10	17.10	17.10	17.10	15.20	15.20	15.20		
acteriological Test Results :												
Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	NF	NF	NF	NF	NF	NF	NF	NF		
Fecal Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	NF	NF	NF	NF	NF	NF	NF	NF		
	Physico-chemical Test Results: 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) Sacteriological 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) 500/500 Turbidity (NTU) 1/1 Residual Free Chlorine (mg/L) Odour Agreeable/ Agreeable Chemical Test Results: Total Hardness (mg/L) 200/200 Total Alkalinity (mg/L) 200/200 Iron(as Fe), mg/L Chloride (mg/L) 250/200 Sacteriological Test Results: Total Coliform (CFU/100 ml) Absent/Absent	(Acceptable Limit) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (CPHEEO) (IS 10500-2012)/ (CPHEEO) (CPHEO) (CPHOO) (CPHOO	(Acceptable Limit) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO)	(Acceptable Limit) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) INLET OF OHR.	(Acceptable Limit) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) INLET OF O.H.R. OF O.H.R. WOODS	Cacceptable Limit) (IS 10500-2012)/ (CPHEEO) INLET OF OH.R. (IS 10500-2012)/ (CPHEEO) INLET OF OH.R. (IS 10500-2012)/ (CPHEEO) INLET OF OH.R. (IS 10500-2012)/ (IS 105000-2012)/ (IS 10500-2012)/ (IS 10500	(Acceptable Limit) (IS 10500-2012)/ (CPHEEO) (INLET OF OUTLET OF OUTLET OF OUTLET OF O.H.R. (AA - IIB, ZONE - IV ON ELLINO OF O.H.R. (AB - III, AND ON ELLINO OF O.H.	CAcceptable Limit (IS 10500-2012)	(Acceptable Limit) (IS 10500-2012)/ (CPHEEO) (CPHEEO) (IS 10500-2012)/ (CPHEEO) (CPHEEO) (IS 10500-2012)/ (PHEO) (IS 10500-2012)/ (IS 10500-1)/ (PHEO) (IS 10500-2012)/ (PHEO) (IS 10		

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: 24.11.2021