WATER QUALITY ANALYSIS REPORT AT DIFFERENT LOCATIONS OF NEW TOWN KOLKATA PROJECT, DURING MONTH JANUARY' 2020

ACTION AREA – I (JANUARY' 2020)

TEST REPORT: AA – I, ZONE – X

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

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of		SOURCE (PHE SUPPLY)				
		(IS 10500-2012)		ZONE - X					
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	GREEN FIELD – 4D			
A. Phy	ysico-chemical Test Results:								
1	pH Value.	6.5-8.5	6.5-8.5	7.64	7.66	7.71			
2	Temperature(degree C)			23.5	23.6	23.6			
3	Total Dissolved Solid(mg/L)	500.00	2000.00	180.7	180.2	179.9			
4	Turbidity, (NTU)	1.00	5.00	1.66	1.71	1.05			
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.15	0.35	0.25			
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
B. Ch	nemical Test Results:				1				
7	Total Hardness, (mg/L)	200.00	600.00	170.03	165.98	165.98			
8	Total Alkalinity, (mg/L)	200.00	600.00	156.56	152.44	152.44			

O.H.R. - OVER HEAD RESERVOIR

Sd/Chemist
Central Water Testing Laboratory
NTKD – I, P.H.E. Dte.

Date of Testing: 06.01.2020

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

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 – IX</u>

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

Date of Testing: 06.01.2020

Sl. No		Requirement	Permissible Limit		SOURCE (PHI	E SUPPLY)			
110	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		
A. Phy	sico-chemical Test Results:	<u>. </u>		•	<u>. </u>				
1	pH Value.	6.5-8.5	6.5-8.5	7.63	7.73	7.76	7.77		
2	Temperature(degree C)			23.5	23.6	23.7	23.7		
3	Total Dissolved Solid. (mg/L)	500.00	2000.00	180.2	179.9	179.8	179.7		
4	Turbidity, (NTU)	1.00	5.00	1.57	1.19	1.20	1.59		
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.1	0.25	0.2	0.25		
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
B. Che	emical Test Results:	1		1	1		•		
7	Total Hardness, (mg/L)	200.00	600.00	170.03	165.98	165.98	165.98		
8	Total Alkalinity, (mg/L)	200.00	600.00	156.56	156.56	156.56	152.44		

O.H.R. - OVER HEAD RESERVOIR

TEST REPORT: ACTION AREA - I, ZONE - VI

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

Date of Testing: 10.01.2020

Sl.	Characteristic	Requirement	Permissible Limit	SOURCE (PHE SUPPLY)						
No		(Acceptable Limit)	in the absence of			ZONE - VI				
		(IS 10500-2012)	alternate Source (IS 10500-2012)	OUTLET OF O.H.R.	NBCC	CE - 197	CE - 74	CE /1/A/97		
	A. Physico - chemical Test	Results:								
1	pH Value.	6.5-8.5	6.5-8.5	7.66	7.66	7.71	7.71	7.72		
2	Temperature(degree C)			23.6	23.6	23.6	23.7	23.6		
3	Total Dissolved Solid (mg/L)	500.00	2000.00	182.4	182.5	182.4	182.3	182.2		
4	Turbidity (NTU)	1.00	5.00	0.85	1.08	1.38	1.13	1.14		
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.3	0.25	0.2	0.2		
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
]	B. Chemical Test Results:									
7	Total Hardness (mg/L)	200.00	600.00	178.13	174.08	174.08	174.08	174.08		
8	Total Alkalinity (mg/L)	200.00	600.00	156.56	156.56	156.56	156.56	156.56		
9	Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1	<0.1	<0.1		
10	Chloride (mg/L)	250.00	1000.00	18.86	18.86	18.86	18.86	18.86		
(C. Bacteriological Test Results		· ·					•		
11	Total Coliform (CFU/100 ml)	Absent	Absent	N.F.	N.F.	N.F.	N.F.	N.F.		
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	N.F.	N.F.	N.F.	N.F.	N.F.		

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

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. : <u>Water Testing (Physico-chemical, Chemical & Bacteriological)</u> **Date of Testing: 10.01.2020**

Sl. No	Characteristic	Requirement	Permissible Limit			SOURCE (PHE S	UPPLY)		
140		(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source			ZONE - I	П		
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R	NKDA Off.	AI/153/18	AL/1/C/40	AL/1/C/4
	A. Physico-chemical T	est Results:							
1	pH Value.	6.5-8.5	6.5-8.5	7.46	7.59	7.62	7.61	7.61	7.65
2	Temperature(degree C)			23.8	23.8	23.7	23.6	23.7	23.7
3	Total Dissolved Solid (mg/L)	500.00	2000.00	181.7	181.9	182.2	184.2	183.4	182.2
4	Turbidity, (NTU)	1.00	5.00	1.06	0.82	1.14	0.72	1.27	1.03
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.45	0.3	0.2	0.15	0.1	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	B. Chemical Test Res	ults:					I	<u> </u>	
7	Total Hardness, (mg/L)	200.00	600.00	178.13	174.08	178.13	182.18	182.18	178.13
8	Total Alkalinity, (mg/L)	200.00	600.00	156.56	156.56	156.56	160.68	160.68	156.56
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	18.86	18.86	18.86	18.86	18.86	18.86
	C. Bacteriological Test Results	:							
11	Total Coliform (CFU/100 ml)	Absent	Absent	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.
	O II D OVED HE		NOT FOUND				•		

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

TEST REPORT: AA – I, ZONE – VII

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

Sl.	Characteristic	Requirement	Permissible Limit			SOURCE (PHE	SUPPLY)		
No		(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source			ZONE -	VII		
			(IS 10500-2012)		OUTLET OF O.H.R.	DC - 57	DF - 94	HIDCO Adm. Building	DA-88
A. Ph	ysico-chemical Test Results:		<u>. </u>						
1	pH Value.	6.5-8.5	6.5-8.5	7.77	7.75	7.76	7.77	7.67	7.77
2	Temperature(degree C)			23.1	23.3	23.1	23.2	23.2	23.1
3	Total Dissolved Solid.	500.00	2000.00	183.1	184.5	183.5	183.3	184.1	183.3
4	Turbidity, (NTU)	1.00	5.00	1.00	1.33	1.85	1.28	1.35	1.64
5	Residual Free Chlorine	0.20	1.00	0.2	0.4	0.3	0.25	0.1	0.25
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Cl	nemical Test Results:	1			1	· ·		1	·
7	Total Hardness, (mg/L)	200.00	600.00	178.13	178.13	178.13	178.13	178.13	174.08
8	Total Alkalinity, (mg/L)	200.00	600.00	156.56	160.68	160.68	156.56	160.68	160.68
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	18.86	18.86	18.86	18.86	18.86	18.86
C. Ba	cteriological Test Results:				•				
11	Total Coliform (CFU/100 ml)	Absent	Absent	N.F	N.F	N.F	N.F	N.F	N.F
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	N.F	N.F	N.F	N.F	N.F	N.F

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

Sd/Chemist & Bacteriologist
Central Water Testing Laboratory
NTKD – I, P.H.E. Dte.

Date of Testing: 13.01.2020

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)

Sl.	Characteristic	Requirement	Permissible Limit			SOURCE (PHE S			
No		(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source			ZONE - V	Ш		
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	DA-30	DA-136	DC-23	DB-222
A. Ph	nysico-chemical Test Results:								
1	pH Value.	6.5-8.5	6.5-8.5	7.69	7.81	7.87	7.75	7.86	7.74
2	Temperature(degree C)			23.2	23.2	23.1	23.2	23.0	23.1
3	Total Dissolved Solid.	500.00	2000.00	183.2	183.9	182.8	182.8	183.2	183.1
4	Turbidity. (NTU)	1.00	5.00	1.46	1.52	0.93	1.13	1.54	1.12
5	Residual Free Chlorine	0.20	1.00	0.25	0.1	0.1	0.1	0.1	0.1
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. C	hemical Test Results:							•	
7	Total Hardness. (mg/L)	200.00	600.00	178.13	178.13	174.08	174.08	178.13	178.13
8	Total Alkalinity. (mg/L)	200.00	600.00	156.56	160.68	152.44	152.44	156.56	156.56
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	18.86	18.86	18.86	18.86	18.86	18.86
C. B	acteriological Test Results:	•							•
11	Total Coliform (CFU/100 ml)	Absent	Absent	N.F	N.F	N.F	N.F	N.F	N.F
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	N.F	N.F	N.F	N.F	N.F	N.F

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

Sd/Chemist & Bacteriologist
Central Water Testing Laboratory
NTKD - I P.H.E. Dte.

Date of Testing: 13.01.2020

GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERING

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

TEST REPORT: ACTION AREA -I, ZONE - IV

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

Date of Testing: 15.01.2020

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of			SOURCE (PH	E SUPPLY)				
		(IS 10500-2012)	(IS 10500-2012) alternate Source (IS 10500-2012)		ZONE - IV						
				INLET OF O.H.R.	OUTLET OF O.H.R.	Senior Citizen Park	BE - 17	BB - 50	BC - 105		
A. Phy	sico-chemical Test Results:	I			1	1			l		
1	pH Value.	6.5-8.5	6.5-8.5	7.69	7.67	7.72	7.71	7.70	7.78		
2	Temperature(degree C)			23.3	23.3	23.3	23.4	23.5	23.5		
3	Total Dissolved Solid (mg/L)	500.00	2000.00	183.5	184.0	184.1	183.9	183.7	183.6		
4	Turbidity (NTU)	1.00	5.00	1.34	1.38	1.52	1.67	1.43	1.56		
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.35	0.2	0.15	0.25	0.15		
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
B. Ch	emical Test Results:	1			1				l		
7	Total Hardness (mg/L)	200.00	600.00	153.22	157.25	157.25	157.25	153.22	153.22		
8	Total Alkalinity (mg/L)	200.00	600.00	160.56	165.02	165.02	165.02	160.56	160.56		
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	17.49	17.49	17.49	17.49	17.49	17.49		
CBac	cteriological Test Results :				•			•			
11	Total Coliform (CFU/100 ml)	Absent	Absent	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.		
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.		

O.H.R. - OVER HEAD RESERVOIR,

N.F. - NOT FOUND

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)

Date of Testing: 15.01.2020

haracteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of _			SOURCE (PHE	SUPPLY)				
	(IS 10500-2012)	alternate Source	ZONE - V							
		(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	CC-201	CD-125	CB-08	CA-81		
ico - chemical Test Results:										
pH Value.	6.5-8.5	6.5-8.5	7.66	7.63	7.69	7.71	7.70	7.69		
Temperature(degree C)			23.5	23.5	23.7	23.8	23.8	23.8		
Total Dissolved Solid (mg/L)	500.00	2000.00	183.2	183.0	183.6	183.8	183.7	183.7		
Turbidity (NTU)	1.00	5.00	1.25	1.40	1.38	1.44	1.49	1.47		
Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.35	0.2	0.1	0.25	0.25		
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
cal Test Results:										
Total Hardness (mg/L)	200.00	600.00	153.22	153.22	157.25	157.25	157.25	157.25		
Total Alkalinity (mg/L)	200.00	600.00	160.56	160.56	165.02	165.02	165.02	165.02		
Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Chloride (mg/L)	250.00	1000.00	17.48	17.48	17.48	17.48	17.48	17.48		
riological Test Results :										
Total Coliform (CFU/100 ml)	Absent	Absent	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.		
Fecal Coliform (CFU/100 ml)	Absent	Absent	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.		
cic	Temperature(degree C) Total Dissolved Solid (mg/L) Turbidity (NTU) esidual Free Chlorine (mg/L) Odour cal Test Results: Total Hardness (mg/L) Total Alkalinity (mg/L) Iron(as Fe), mg/L Chloride (mg/L) riological Test Results: Total Coliform (CFU/100 ml) Fecal Coliform (CFU/100 ml)	Temperature(degree C) Total Dissolved Solid (mg/L) 500.00 Turbidity (NTU) 1.00 esidual Free Chlorine (mg/L) 0.20 Odour Agreeable cal Test Results: Total Hardness (mg/L) 200.00 Total Alkalinity (mg/L) 200.00 Iron(as Fe), mg/L 1.0 Chloride (mg/L) 250.00 ciological Test Results: Total Coliform (CFU/100 ml) Absent	Temperature(degree C)	Temperature(degree C) 23.5 Fotal Dissolved Solid (mg/L) 500.00 2000.00 183.2 Turbidity (NTU) 1.00 5.00 1.25 esidual Free Chlorine (mg/L) 0.20 1.00 0.2 Odour Agreeable Agreeable Agreeable eal Test Results: Total Hardness (mg/L) 200.00 600.00 153.22 Total Alkalinity (mg/L) 200.00 600.00 160.56 Iron(as Fe), mg/L 1.0 No Relaxation <0.1 Chloride (mg/L) 250.00 1000.00 17.48 riological Test Results: Total Coliform (CFU/100 ml) Absent Absent N.F. Fecal Coliform (CFU/100 ml) Absent Absent N.F.	Temperature(degree C) 23.5 23.5 Fotal Dissolved Solid (mg/L) 500.00 2000.00 183.2 183.0 Turbidity (NTU) 1.00 5.00 1.25 1.40 esidual Free Chlorine (mg/L) 0.20 1.00 0.2 0.35 Odour Agreeable Agreeable Agreeable Agreeable eal Test Results: Total Hardness (mg/L) 200.00 600.00 153.22 153.22 Total Alkalinity (mg/L) 200.00 600.00 160.56 160.56 Iron(as Fe), mg/L 1.0 No Relaxation <0.1 <0.1 Chloride (mg/L) 250.00 1000.00 17.48 17.48 riological Test Results: Total Coliform (CFU/100 ml) Absent Absent N.F. N.F. Fecal Coliform (CFU/100 ml) Absent Absent N.F. N.F.	Temperature(degree C) 23.5 23.5 23.7 Total Dissolved Solid (mg/L) 500.00 2000.00 183.2 183.0 183.6 Turbidity (NTU) 1.00 5.00 1.25 1.40 1.38 esidual Free Chlorine (mg/L) 0.20 1.00 0.2 0.35 0.2 Odour Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable ral Test Results: Total Hardness (mg/L) 200.00 600.00 153.22 153.22 157.25 Total Alkalinity (mg/L) 200.00 600.00 160.56 160.56 165.02 Iron(as Fe), mg/L 1.0 No Relaxation <0.1 <0.1 <0.1 Chloride (mg/L) 250.00 1000.00 17.48 17.48 17.48 riological Test Results: Total Coliform (CFU/100 ml) Absent Absent N.F. N.F. N.F. N.F. Fecal Coliform (CFU/100 ml) Absent Absent N.F. N.F. N.F. N.F.	Temperature (degree C) 23.5 23.5 23.7 23.8 Fotal Dissolved Solid (mg/L) 500.00 2000.00 183.2 183.0 183.6 183.8 Turbidity (NTU) 1.00 5.00 1.25 1.40 1.38 1.44 esidual Free Chlorine (mg/L) 0.20 1.00 0.2 0.35 0.2 0.1 Odour Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable al Test Results: Total Hardness (mg/L) 200.00 600.00 153.22 153.22 157.25 157.25 Total Alkalinity (mg/L) 200.00 600.00 160.56 160.56 165.02 165.02 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	Temperature(degree C)		

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

TEST REPORT: ACTION AREA - I , ZONE - I

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

Date of Testing: 16.01.2020

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit			SOURCE (PH	E SUPPLY)		
110		(IS 10500-2012)	in the absence of alternate Source (IS 10500-2012)			ZONE	- I		
			(15 10200 2012)	INLET OF O.H.R.	OUTLET OF	AC - 169	AA - 03	AC - 107	AC - 50
A. F	Physico-chemical Test Resul	 ts:			O.H.R.				
110 1	nysico enciment rest resti	LI3 •							
1	pH Value.	6.5-8.5	6.5-8.5	7.64	7.60	7.66	7.64	7.61	7.62
2	Temperature(degree C)			23.5	23.2	23.5	23.8	23.9	23.1
3	Total Dissolved Solid (mg/L)	500.00	2000.00	183.8	183.1	184.0	184.3	184.9	184.4
4	Turbidity (NTU)	1.00	5.00	0.84	1.40	1.53	1.67	1.44	1.62
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.4	0.2	0.3	0.3	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В.	Chemical Test Results:			<u> </u>			<u> </u>	1	I.
7	Total Hardness (mg/L)	200.00	600.00	153.22	153.22	153.22	153.22	157.25	157.25
8	Total Alkalinity (mg/L)	200.00	600.00	160.56	160.56	160.56	160.56	165.02	165.02
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	17.48	17.48	17.48	17.48	17.48	17.48
C. B	Sacteriological Test Results		•					•	
11	Total Coliform (CFU/100 ml)	Absent	Absent	N.F	N.F	N.F	N.F	N.F	N.F
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	N.F	N.F	N.F	N.F	N.F	N.F
	0 11 D 0 11 D D	ECEDUALD NE NATE	A.V.V.D				ı	1	II.

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

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 - II

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

Date of Testing: 16.01.2020

			5ub <u>v</u>	vater resting (1	'nysico-chemicai, Cher	incar & Dacterrorogic	<u>ai)</u> D	ate of Testing: 10.0	1,2020		
Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit			SOURCE (PHE	E SUPPLY)				
		(IS 10500-2012)	in the absence		ZONE - II						
			of alternate Source (IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	NEWTOWN BUS TERMINOUS	BA-120	AB - 13	AB - 72		
A. F	Physico-chemical Test Res	ults:									
1	pH Value.	6.5-8.5	6.5-8.5	7.60	7.70	7.68	7.69	7.68	7.77		
2	Temperature(degree C)			23.3	23.3	23.2	23.0	23.0	23.9		
3	Total Dissolved Solid (mg/L)	500.00	2000.00	184.8	185.1	184.0	184.4	184.3	184.5		
4	Turbidity (NTU)	1.00	5.00	1.38	1.32	1.02	0.92	0.98	1.50		
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.2	0.1	0.1	0.1	0.1		
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
В. (Chemical Test Results:	l				1					
7	Total Hardness (mg/L)	200.00	600.00	157.25	157.25	153.22	153.22	153.22	157.25		
8	Total Alkalinity (mg/L)	200.00	600.00	165.02	165.02	160.56	160.56	160.56	165.02		
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	17.48	17.48	17.48	17.48	17.48	17.48		
C. B	acteriological Test Results :		'		•	<u>'</u>			•		
11	Total Coliform (CFU/100 ml)	Absent	Absent	N.F	N.F	N.F	N.F	N.F	N.F		
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	N.F	N.F	N.F	N.F	N.F	N.F		

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

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: 17.01.2020

Sl. No	Characteristic	Requirement Permissible Limit (Acceptable Limit) in the absence of		SOURCE (PHE SUPPLY)				
- 1.0		(IS 10500-2012)	alternate Source		ZONE - X			
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	GREEN FIELD 4D		
. Physi	ico-chemical Test Results:	•	·					
1	pH Value.	6.5-8.5	6.5-8.5	7.68	7.67	7.77		
2	Temperature(degree C)			23.5	23.2	23.4		
3	Total Dissolved Solid(mg/L)	500.00	2000.00	187.1	186.3	185.4		
4	Turbidity, (NTU)	1.00	5.00	1.85	1.61	1.71		
5	Residual Free Chlorine(mg/L)	0.20	1.00	<0.1	0.3	0.2		
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
3. Chen	nical Test Results:	- 1			ı			
7	Total Hardness, (mg/L)	200.00	600.00	161.28	161.28	161.28		
8	Total Alkalinity, (mg/L)	200.00	600.00	169.48	169.48	169.48		
9	Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1		
10	Chloride (mg/L)	250.00	1000.00	19.43	19.43	19.43		
	Bacteriological Test Results:	•	<u>. </u>					
11	Total Coliform (CFU/100 ml)	Absent	Absent	N.F.	N.F.	N.F.		
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	N.F.	N.F.	N.F.		

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

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 – IX</u>

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

Date of Testing: 17.01.2020

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence		SOURCE (PH	E SUPPLY)	
		(IS 10500-2012)	of alternate		ZONE	- IX	
			Source (IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	Rishi Tower	DAWAT RESTAURANT
			A. Physico-che	emical Test Results:	1		
1	pH Value.	6.5-8.5	6.5-8.5	7.62	7.70	7.67	7.74
2	Temperature(degree C)			23.1	23.1	23.8	23.7
3	Total Dissolved Solid. (mg/L)	500.00	2000.00	187.0	187.0	185.4	185.7
4	Turbidity, (NTU)	1.00	5.00	1.91	1.93	1.92	1.82
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.2	0.3	0.2	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
			B. Chemic	cal Test Results:			
7	Total Hardness, (mg/L)	200.00	600.00	161.28	161.28	161.28	161.28
8	Total Alkalinity, (mg/L)	200.00	600.00	169.48	169.48	169.48	169.48
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	19.43	19.43	19.43	19.43
C.Bac	teriological Test Results :						
11	Total Coliform (CFU/100 ml)	Absent	Absent	N.F.	N.F.	N.F.	N.F.
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	N.F.	N.F.	N.F.	N.F.

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

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 – VII

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

Sl. Characteristic Requirement **Permissible Limit** SOURCE (PHE SUPPLY) ZONE - VII No (Acceptable Limit) in the absence of (IS 10500-2012) alternate Source (IS 10500-2012) INLET OF **OUTLET OF** DC-57 DA - 88 HIDCO Admin. DF - 94 O.H.R. O.H.R. **Building** A. Physico-chemical Test Results: 1 pH Value. 7.68 7.69 7.71 7.73 7.70 7.66 6.5-8.5 6.5-8.5 23.6 23.6 23.5 23.4 23.3 23.5 2 Temperature(degree C) --------3 **Total Dissolved Solid.** 183.2 183.6 184.5 184.3 183.9 184.3 500.00 2000.00 4 Turbidity, (NTU) 1.84 1.81 1.91 1.84 1.75 1.87 1.00 5.00 5 Residual Free Chlorine 0.15 0.35 0.25 0.15 0.1 0.2 0.20 1.00 6 Odour Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable **B.** Chemical Test Results: Total Hardness, (mg/L) 161.28 161.28 165.31 165.31 161.28 165.31 200.00 600.00 8 Total Alkalinity, (mg/L) 178.40 178.40 182.86 182.86 178.40 178.40 200.00 600.00

O.H.R. - OVER HEAD RESERVOIR

Sd/Chemist
Central Water Testing Laboratory
NTKD - I P.H.E. Dte.

Date of Testing: 28.01.2020

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 – I. ZONE – VIII</u>

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

Date of Testing: 28.01.2020

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of			SOURCE (1	PHE SUPPLY)						
		(IS 10500-2012)	alternate Source (IS 10500-2012)			ZON	E - VIII						
			(12 10000 2012)	INLET OF	OUTLET OF	DA-30	DA-136	DC-23	DB-222				
				O.H.R.	O.H.R.								
	A. Physico-chemical Test Results:												
1	pH Value.	6.5-8.5	6.5-8.5	7.64	7.70	7.72	7.71	7.69	7.71				
2	Temperature(degree C)			23.6	23.6	23.5	23.5	23.4	23.5				
3	Total Dissolved Solid(mg/L)	500.00	2000.00	184.6	184.2	184.0	184.4	184.6	183.9				
4	Turbidity (NTU)	1.00	5.00	1.96	1.83	1.89	1.95	1.89	2.01				
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.45	0.15	0.1	0.1	0.1	0.1				
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable				
В. С	hemical Test Results:	•	1	•					•				
7	Total Hardness. (mg/L)	200.00	600.00	165.31	161.28	161.28	165.31	165.31	161.28				
8	Total Alkalinity. (mg/L)	200.00	600.00	178.40	178.40	178.40	182.86	182.86	178.40				

O.H.R. - OVER HEAD RESERVOIR

ACTION AREA – II (JANUARY' 2020)

TEST REPORT: AA – II C, ZONE – I

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

Date of Testing: 02.01.2020 SOURCE (PHE SUPPLY) Characteristic Requirement **Permissible Limit** (Acceptable Limit) in the absence of (IS 10500-2012) alternate Source AA – IIC, ZONE - I (IS 10500-2012) OUTLET OF INLET OF AKANKHA STAR LIT HILAND MOON NKDA Mkt. O.H.R. O.H.R. COMPLEX WOODS **BEAM** A. Physico-chemical Test Results: 1 pH Value. 7.67 7.71 7.70 7.74 7.73 7.73 7.77 6.5-8.5 6.5-8.5 Temperature (degree C) 2 23.4 23.4 23.3 23.4 23.4 23.4 23.3 Total Dissolved Solid (mg/L) 3 180.1 179.8 179.2 179.0 179.1 179.2 180.0 500.00 2000.00 Turbidity (NTU) 4 2.50 2.27 2.31 2.73 2.44 2.13 2.02 1.00 5.00 5 **Residual Free Chlorine** 0.2 0.3 0.15 0.1 0.1 0.2 0.25 0.20 1.00 (mg/L) Agreeable Odour Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable **B.** Chemical Test Results: Total Hardness (mg/L) 165.98 165.98 165.98 165.98 165.98 165.98 165.98 200.00 600.00 Total Alkalinity (mg/L) 144.20 144.20 144.20 144.20 144.20 144.20 144.20 200.00 600.00

O.H.R. - OVER HEAD RESERVOIR

TEST REPORT: AA - II D, ZONE - V

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

SOURCE (PHE SUPPLY) Characteristic Requirement **Permissible Limit** (Acceptable Limit) in the absence of AA – IID, ZONE - V (IS 10500-2012) alternate Source (IS 10500-2012) INLET OF O.H.R. OUTLET OF O.H.R. ALATIKA GREEN WOOD SONATA A. Physico-chemical Test Results: pH Value. 7.70 7.81 7.69 7.76 6.5-8.5 6.5-8.5 2 Temperature (degree C) 23.3 23.3 23.4 23.4 3 Total Dissolved Solid (mg/L) 179.3 179.1 180.1 179.7 500.00 2000.00 4 Turbidity (NTU) 1.90 2.46 2.87 2.38 1.00 5.00 Residual Free Chlorine (mg/L) 5 0.2 0.2 0.15 0.2 0.20 1.00 Odour 6 Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable **B.** Chemical Test Results: Total Hardness (mg/L) 165.98 161.94 165.98 165.98 200.00 600.00 Total Alkalinity (mg/L) 8 144.20 140.08 144.20 144.20 200.00 600.00

O.H.R. - OVER HEAD RESERVOIR,

Sd/Chemist
Central Water Testing Laboratory
NTKD - I P.H.E. Dte.

Date of Testing: 02.01.2020

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)

Date of Testing: 02.01.2020

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of	SOURCE (PHE SUPPLY)					
		(IS 10500-2012)	alternate Source		AA – IID, ZONE - VI				
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	SHRACHI GREEN WOOD ELEMENT	GREEN FIELD AMBITION		
A. P	hysico-chemical Test Results	;:							
1	pH Value.	6.5-8.5	6.5-8.5	7.27	7.46	7.72	7.75		
2	Temperature (degree C)			23.3	23.4	23.3	23.3		
3	Total Dissolved Solid (mg/L)	500.00	2000.00	181.5	179.4	179.4	179.9		
4	Turbidity (NTU)	1.00	5.00	2.63	2.56	1.82	1.95		
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.8	0.55	0.4	0.45		
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
В.	Chemical Test Results:				•				
7	Total Hardness (mg/L)	200.00	600.00	165.98	161.94	161.94	165.98		
8	Total Alkalinity (mg/L)	200.00	600.00	144.20	140.08	140.08	144.20		

O.H.R. - OVER HEAD RESERVOIR

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 – VI</u>

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

Date of Testing: 02.01.2020

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of	SOURCE (PHE SUPPLY)					
		(IS 10500-2012)	alternate Source		AA – IID, ZONE - VI				
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	SHRACHI GREEN WOOD ELEMENT	GREEN FIELD AMBITION		
A. P	Physico-chemical Test Results	S:							
1	pH Value.	6.5-8.5	6.5-8.5	7.27	7.46	7.72	7.75		
2	Temperature (degree C)			23.3	23.4	23.3	23.3		
3	Total Dissolved Solid (mg/L)	500.00	2000.00	181.5	179.4	179.4	179.9		
4	Turbidity (NTU)	1.00	5.00	2.63	2.56	1.82	1.95		
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.8	0.55	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	165.98	161.94	161.94	165.98		
8	Total Alkalinity (mg/L)	200.00	600.00	144.20	140.08	140.08	144.20		

O.H.R. - OVER HEAD RESERVOIR

GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERING OF THE 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>AA – IIG, ZONE – XI</u>

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

Date of Testing: 06.01.2020

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. P	hysico-chemical Test Results:							
1	pH Value.	6.5-8.5	6.5-8.5	7.71	7.65	7.75		
2	Temperature (degree C)			23.5	23.4	23.3		
3	Total Dissolved Solid (mg/L)	500.00	2000.00	179.6	180.2	179.1		
4	Turbidity (NTU)	1.00	5.00	1.23	1.80	1.14		
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.25	0.1		
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
В. (Chemical Test Results:							
7	Total Hardness (mg/L)	200.00	600.00	165.98	165.98	165.98		
8	Total Alkalinity (mg/L)	200.00	600.00	152.44	156.56	152.44		

O.H.R. - OVER HEAD RESERVOIR

TEST REPORT: AA – IIG, ZONE – XI

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

Date of Testing: 17.01.2020

Sl. No	(Acceptable in the		Permissible Limit in the absence of	SOURCE (PHE SUPPLY)				
		Limit) alternate Source (IS 10500-2012) (IS 10500-2012)			AA – IIG, ZONE - XI			
		(15 10000 2012)	(15 10300-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	EDEN COURT		
A. Phy	ysico-chemical Test Resu	lts:						
1	pH Value.	6.5-8.5	6.5-8.5	7.64	7.72	7.77		
2	Temperature (degree C)			23.5	23.3	23.3		
3	Total Dissolved Solid (mg/L)	500.00	2000.00	185.2	184.5	184.6		
4	Turbidity (NTU)	1.00	5.00	1.86	1.98	1.75		
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.3	0.2		
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
B. Cl	nemical Test Results:							
7	Total Hardness (mg/L)	200.00	600.00	165.31	161.28	161.28		
8	Total Alkalinity (mg/L)	200.00	600.00	169.48	169.48	169.48		
9	Iron(as Fe) (mg/L)	1.0	No Relaxation	<0.1	<0.1	<0.1		
10	Chloride (mg/L)	250.00	1000.00	19.43	19.43	19.43		
C. Ba	cteriological Test Result	s:						
11	Total Coliform (CFU/100 ml)	Absent	Absent	N.F.	N.F.	N.F.		
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	N.F.	N.F.	N.F.		

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

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)

Characteristic Requirement Permissible Limit SOURCE (PHE SUPPLY) (Acceptable Limit) in the absence of (IS 10500-2012) AA – IIC, ZONE - I alternate Source (IS 10500-2012) INLET OF O.H.R. OUTLET OF AKANKHA STARLIT MOON HILAND NKDA Mkt. O.H.R. COMPLEX WOODS BEAM A. Physico-chemical Test Results: pH Value. 7.46 7.66 7.71 7.72 7.73 7.74 7.74 6.5-8.5 6.5-8.5 2 Temperature (degree C) 23.3 23.2 23.2 23.3 23.5 23.5 23.5 ----Total Dissolved Solid (mg/L) 183.7 183.9 183.9 183.7 183.7 3 183.6 183.4 500.00 2000.00 Turbidity (NTU) 4 1.12 2.01 1.57 1.24 2.13 2.45 1.88 1.00 5.00 5 **Residual Free Chlorine** < 0.1 0.4 0.2 0.3 0.1 0.4 0.3 0.20 1.00 (mg/L) Odour Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable **B.** Chemical Test Results: Total Hardness (mg/L) 169.34 169.34 169.34 169.34 169.34 169.34 169.34 200.00 600.00 Total Alkalinity (mg/L) 173.94 173.94 178.40 178.40 173.94 173.94 178.40 200.00 600.00 Iron(as Fe) (mg/L) 9 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 1.0 No Relaxation 19.43 10 Chloride (mg/L) 19.43 19.43 19.43 19.43 19.43 19.43 250.00 1000.00 C. Bacteriological Test Results: Total Coliform (CFU/100 ml) 11 N.F N.F N.F N.F N.F Absent Absent N.F N.F 12 Fecal Coliform (CFU/100 ml) N.F N.F N.F N.F N.F N.F Absent Absent N.F

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

Sd/Chemist & Bacteriologist
Central Water Testing Laboratory
NTKD - I P.H.E. Dte.

Date of Testing: 20.01.2020

TEST REPORT: AA – II D, ZONE – V

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

(IS 10500-2012) AA – IID, ZONE - V	Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate		SOURCE (PH	IE SUPPLY)	
New York New York			(IS 10500-2012) Source (IS 10500-2012)			AA – IID, Z	ZONE - V	
1							ALATIKA	GREEN WOOD SONATA
1	A. Phy	ysico-chemical Test Results:						
Total Dissolved Solid (mg/L) S00.00 2000.00 184.4 184.0 183.9 184.4	1	pH Value.	6.5-8.5	6.5-8.5	7.76	7.80	7.73	7.67
Turbidity (NTU) 1.00 5.00 1.89 1.30 2.09 1.34	2	Temperature (degree C)			23.2	23.3	23.2	23.4
5 Residual Free Chlorine (mg/L) 0.20 1.00 0.2 0.1 0.2 0.1 6 Odour Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable B. Chemical Test Results: 7 Total Hardness (mg/L) 200.00 600.00 173.38 169.34 169.34 173.38 8 Total Alkalinity (mg/L) 200.00 600.00 178.40 173.94 173.94 178.40 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 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 </td <td>3</td> <td>Total Dissolved Solid (mg/L)</td> <td>500.00</td> <td>2000.00</td> <td>184.4</td> <td>184.0</td> <td>183.9</td> <td>184.4</td>	3	Total Dissolved Solid (mg/L)	500.00	2000.00	184.4	184.0	183.9	184.4
Color Agreeable Agreeabl	4	Turbidity (NTU)	1.00	5.00	1.89	1.30	2.09	1.34
B. Chemical Test Results: 7	5	Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.1	0.2	0.1
7 Total Hardness (mg/L) 200.00 600.00 173.38 169.34 169.34 173.38 8 Total Alkalinity (mg/L) 200.00 600.00 178.40 173.94 173.94 178.40 9 Iron(as Fe) (mg/L) 1.0 No Relaxation <0.1	6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
8 Total Alkalinity (mg/L) 200.00 600.00 178.40 173.94 173.94 173.94 178.40 9 Iron(as Fe) (mg/L) 1.0 No Relaxation <0.1	B. C	hemical Test Results:				_		
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 19.43 19.43 19.43 19.43 C. Bacteriological Test Results: 11 Total Coliform (CFU/100 ml) Absent Absent N.F N.F N.F N.F N.F	7	Total Hardness (mg/L)	200.00	600.00	173.38	169.34	169.34	173.38
10 Chloride (mg/L) 250.00 1000.00 19.43 19.43 19.43 19.43 C. Bacteriological Test Results:	8	Total Alkalinity (mg/L)	200.00	600.00	178.40	173.94	173.94	178.40
C. Bacteriological Test Results: 11 Total Coliform (CFU/100 ml) Absent Absent N.F N.F N.F N.F	9	Iron(as Fe) (mg/L)	1.0	No Relaxation	<0.1	<0.1	<0.1	<0.1
11 Total Coliform (CFU/100 ml) Absent Absent N.F N.F N.F N.F	10	Chloride (mg/L)	250.00	1000.00	19.43	19.43	19.43	19.43
, , , , , , , , , , , , , , , , , , ,	C. Ba	cteriological Test Results:	·			•		<u> </u>
12 Fecal Coliform (CFU/100 ml) Absent Absent N.F N.F N.F	11	Total Coliform (CFU/100 ml)	Absent	Absent	N.F	N.F	N.F	N.F
	12	Fecal Coliform (CFU/100 ml)	Absent	Absent	N.F	N.F	N.F	N.F

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

Sd/Chemist & Bacteriologist
Central Water Testing Laboratory
NTKD - I P.H.E. Dte.

Date of Testing: 20.01.2020

GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERING

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

NEW TOWN, RAJARHAT, KOLKATA – 700 156

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

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

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of	SOURCE (PHE SUPPLY)						
		(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	Physico-chemical Test Results	s:								
1	pH Value.	6.5-8.5	6.5-8.5	7.74	7.76	7.73	7.71			
2	Temperature (degree C)			23.4	23.3	23.3	23.3			
3	Total Dissolved Solid (mg/L)	500.00	2000.00	183.7	183.6	183.4	183.3			
4	Turbidity (NTU)	1.00	5.00	2.40	1.53	1.70	1.00			
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.1	0.2	0.2	0.2			
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
В.	Chemical Test Results:	1	1							
7	Total Hardness (mg/L)	200.00	600.00	169.34	169.34	169.34	169.34			
8	Total Alkalinity (mg/L)	200.00	600.00	173.94	173.94	173.94	173.94			
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	19.43	19.43	19.43	19.43			
C. I	Bacteriological Test Results:		·				•			
11	Total Coliform (CFU/100 ml)	Absent	Absent	N.F	N.F	N.F	N.F			
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	N.F	N.F	N.F	N.F			

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

Sd/Chemist & Bacteriologist
Central Water Testing Laboratory
NTKD - I P.H.E. Dte.

Date of Testing: 20.01.2020

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 A, ZONE – X

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

Date of Testing: 22.01.2020

Sl. No	Characteristic Requirement (Acceptable Limit)				SOURCE (PHE SUPPLY)				
		(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source		AA – IIA, ZONE – X				
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	Aliah University			
A. Pl	hysico-chemical Test Results:	1			1				
1	pH Value.	6.5-8.5	6.5-8.5	7.69	7.73	7.73			
2	Temperature (degree C)			23.5	23.5	23.7			
3	Total Dissolved Solid (mg/L)	500.00	2000.00	183.2	182.4	182.3			
4	Turbidity (NTU)	1.00	5.00	1.98	1.39	1.67			
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.25	0.15			
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
В. С	Chemical Test Results:								
7	Total Hardness (mg/L)	200.00	600.00	161,28	161.28	161.28			
8	Total Alkalinity (mg/L)	200.00	600.00	178.40	173.94	173.94			
9	Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1			
10	Chloride (mg/L)	250.00	1000.00	19.43	19.43	19.43			
C .Ba	acteriological Test Results :		·		<u>.</u>				
11	Total Coliform (CFU/100 ml)	Absent	Absent	N.F	N.F	N.F			
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	N.F	N.F	N.F			

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

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 & Bacteriological)

	(IS 10500-2012)/	(CPHEEO)	SOURCE (PHE SUPPLY) AA – IIB, ZONE - IV						
	(СРНЕЕО)		INLET OF O.H.R.	OUTLET OF O.H.R.	HILAND WILLOWS	ANAHITA	MALANCHA	NKDA MARKET	ECO URBAN VILLAGE
ysico-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	7.59	7.71	7.72	7.72	7.71	7.66	7.69
Temperature (degree C)			23.2	23.3	23.3	23.5	23.4	23.1	23.2
Total Dissolved Solid (mg/L)	500/500	2000/2000	184.1	182.6	182.4	182.5	182.4	182.9	183.1
Turbidity (NTU)	1/1	5/10	1.52	1.45	1.58	1.68	1.80	1.26	2.01
Residual Free Chlorine (mg/L)	0.2/0.2	0.2/1.0	<0.1	0.25	0.1	0.1	0.1	<0.1	0.1
Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
hemical Test Results:									•
Total Hardness (mg/L)	200/200	600/600	161.28	161.28	161.28	161.28	161.28	161.28	165.31
Total Alkalinity (mg/L)	200/200	600/600	178.40	173.94	173.94	173.94	173.94	178.40	178.40
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	19.43	19.43	19.43	19.43	19.43	19.43	19.43
cteriological Test Results:							<u> </u>		•
Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F	N.F	N.F	N.F	N.F	N.F	N.F
Fecal Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F	N.F	N.F	N.F	N.F	N.F	N.F
	pH Value. Temperature (degree C) Total Dissolved Solid (mg/L) Turbidity (NTU) Residual Free Chlorine (mg/L) Odour hemical Test Results: Total Hardness (mg/L) Total Alkalinity (mg/L) Iron(as Fe), mg/L Chloride (mg/L) eteriological Test Results: Total Coliform (CFU/100 ml) Fecal Coliform (CFU/100 ml)	pH Value. for the person of t	PH Value. 6.5 to 8.5/7.0 to 8.5 6.5 to 8.5/6.5 to 9.2	pH Value. 6.5 to 8.5/7.0 to 8.5 6.5 to 8.5/6.5 to 9.2 7.59 Temperature (degree C)	pH Value. 6.5 to 8.5/7.0 to 8.5 6.5 to 8.5/6.5 to 9.2 7.59 7.71 Temperature (degree C) 23.2 23.3 Total Dissolved Solid (mg/L) 500/500 2000/2000 184.1 182.6 Turbidity (NTU) 1/1 5/10 1.52 1.45 Residual Free Chlorine (mg/L) 0.2/0.2 0.2/1.0 <0.1	PH Value. 6.5 to 8.5/7.0 to 8.5 6.5 to 8.5/6.5 to 9.2 7.59 7.71 7.72	PH Value. 6.5 to 8.5/7.0 to 8.5 6.5 to 8.5/6.5 to 9.2 7.59 7.71 7.72 7.72 Temperature (degree C) 23.2 23.3 23.3 23.5 Total Dissolved Solid (mg/L) 500/500 2000/2000 184.1 182.6 182.4 182.5 Turbidity (NTU) 1/1 5/10 1.52 1.45 1.58 1.68 Residual Free Chlorine (mg/L) 0.2/0.2 0.2/1.0 <0.1 0.25 0.1 0.1 Odour Agreeable/ Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable hemical Test Results: Total Hardness (mg/L) 200/200 600/600 161.28 161.28 161.28 161.28 Total Alkalinity (mg/L) 200/200 600/600 178.40 173.94 173.94 173.94 Iron(as Fe), mg/L 1.0/0.1 1.0/1.0 <0.1 <0.1 <0.1 <0.1 Chloride (mg/L) 250/200 1000/1000 19.43 19.43 19.43 19.43 19.43 tetriological Test Results: Total Coliform (CFU/100 ml) Absent/Absent Absent/Absent N.F N.F N.F N.F N.F	PH Value. 6.5 to 8.5/7.0 to 8.5 6.5 to 8.5/6.5 to 9.2 7.59 7.71 7.72 7.72 7.71 Temperature (degree C)	PH Value. 6.5 to 8.5/7.0 to 8.5 6.5 to 8.5/6.5 to 9.2 7.59 7.71 7.72 7.72 7.71 7.66 Temperature (degree C) 23.2 23.3 23.3 23.5 23.4 23.1 Total Dissolved Solid (mg/L) 500/500 2000/2000 184.1 182.6 182.4 182.5 182.4 182.9 Turbidity (NTU) 1/1 5/10 1.52 1.45 1.58 1.68 1.80 1.26 Residual Free Chlorine (mg/L) 0.2/0.2 0.2/1.0 <0.1 0.25 0.1 0.1 0.1 0.1 <0.1 Odour Agreeable/ Agreeable Agreea

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

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Date of Testing: 22.01.2020