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

WATER QUALITY ANALYSIS REPORT AT DIFFERENT LOCATIONS OF NEW TOWN KOLKATA PROJECT, DURING MONTH DECEMBER' 2019

ACTION AREA – I (DECEMBER' 2019)

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 - VI

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

Date of Testing: 02.12.19

Sl.	Characteristic	Requirement	Permissible Limit		SC	OURCE (PHE SUPPL	Y)	
No		(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source			ZONE - VI		
			(IS 10500-2012)	OUTLET OF O.H.R.	NBCC	CE/1/C/139	CE - 74	CE /1/A/97
	A. Physico - chemical Test 1	Results:						
1	pH Value.	6.5-8.5	6.5-8.5	7.69	7.72	7.76	7.74	7.77
2	Temperature(degree C)			25.6	25.6	25.6	25.8	25.8
3	Total Dissolved Solid (mg/L)	500.00	2000.00	159.3	159.3	159.6	159.4	160.2
4	Turbidity (NTU)	1.00	5.00	0.85	1.29	1.00	1.02	1.13
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.35	0.2	0.2	0.1	0.1
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	B. Chemical Test Results:	,	,					1
7	Total Hardness (mg/L)	200.00	600.00	143.81	143.81	143.81	143.81	147.81
8	Total Alkalinity (mg/L)	200.00	600.00	126.48	126.48	130.56	126.48	130.56
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	15.43	15.43	15.43	15.43	15.43
	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 II D OVER HEAD DEC	EDVOID NE NOTEOU	ND	L				1

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

Sd/Chemist & Bacteriologist
Central Water Testing Laboratory
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.: Water Testing (Physico-chemical, Chemical & Bacteriological)

SOURCE (PHE SUPPLY) Characteristic Requirement Permissible Limit No (Acceptable Limit) in the absence of **ZONE - III** (IS 10500-2012) alternate Source (IS 10500-2012) INLET OF O.H.R. OUTLET OF NKDA Off. AI/153/18 AL/1/C/40 AL/1/C/4 O.H.R A. Physico-chemical Test Results: pH Value. 7.49 7.67 7.67 7.69 7.68 7.69 6.5-8.5 6.5-8.5 Temperature(degree C) 25.4 25.9 25.7 26.0 25.8 25.6 Total Dissolved Solid (mg/L) 160.0 160.1 159.9 159.8 159.1 159.3 500.00 2000.00 4 Turbidity, (NTU) 1.03 0.86 0.85 1.27 0.99 0.93 1.00 5.00 Residual Free Chlorine (mg/L) 0.7 0.4 0.2 0.2 0.1 0.15 0.20 1.00 Odour Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable **B.** Chemical Test Results: Total Hardness, (mg/L) 143.81 143.81 143.81 147.81 143.81 143.81 200.00 600.00 8 Total Alkalinity, (mg/L) 130.56 130.56 130.56 130.56 126.48 126.48 200.00 600.00 Iron(as Fe), mg/L < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 1.0 No Relaxation 10 Chloride (mg/L) 15.43 15.43 15.43 15.43 15.43 15.43 250.00 1000.00 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.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: 02.12.19

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)

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of			SOURCE (PH	E SUPPLY)		
		(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:				1			-	
1	pH Value.	6.5-8.5	6.5-8.5	7.61	7.79	7.84	7.81	7.81	7.79
2	Temperature(degree C)			23.9	23.9	23.9	24.0	23.9	23.8
3	Total Dissolved Solid (mg/L)	500.00	2000.00	161.7	161.6	161.2	162.2	161.8	161.2
4	Turbidity (NTU)	1.00	5.00	1.13	1.25	1.84	1.57	1.44	1.30
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.35	0.1	<0.1	<0.1	<0.1	<0.1
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Ch	emical Test Results:	1							
7	Total Hardness (mg/L)	200.00	600.00	159.79	159.79	159.79	159.79	159.79	159.79
8	Total Alkalinity (mg/L)	200.00	600.00	134.64	134.64	130.56	130.56	134.64	130.56
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	17.36	17.36	17.36	17.36	17.36	17.36
CBac	cteriological Test Results :	•	1		•	,		1	
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

Sd/-

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

Date of Testing: 05.12.19

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)

Date of Testing: 05.12.19

Characteristic	Requirement	Permissible Limit		SOURC	CE (PHE SUPPI	LY)			
			ZONE - V						
		(IS 10500-2012)	OUTLET OF O.H.R.	CC-201	CD-125	CB-08	CA-81		
Physico - chemical Test Results:									
pH Value.	6.5-8.5	6.5-8.5	7.82	7.77	7.78	7.81	7.83		
Temperature(degree C)			23.9	24.1	23.9	23.7	23.6		
Total Dissolved Solid (mg/L)	500.00	2000.00	161.8	162.4	160.8	163.5	161.7		
Turbidity (NTU)	1.00	5.00	1.01	1.12	1.20	1.82	1.68		
Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.2	0.1	0.1	0.2		
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
nemical Test Results:				1	l				
Total Hardness (mg/L)	200.00	600.00	159.79	163.79	159.79	163.79	159.79		
Total Alkalinity (mg/L)	200.00	600.00	134.64	138.72	130.56	138.72	134.64		
Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1	<0.1	<0.1		
Chloride (mg/L)	250.00	1000.00	17.36	17.36	17.36	17.36	17.36		
acteriological Test Results:									
Total Coliform (CFU/100 ml)	Absent	Absent	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.		
	Physico - chemical Test Results: pH Value. Temperature(degree C) Total Dissolved Solid (mg/L) Turbidity (NTU) Residual Free Chlorine (mg/L) Odour nemical Test Results: Total Hardness (mg/L) Total Alkalinity (mg/L) Iron(as Fe), mg/L Chloride (mg/L) acteriological Test Results: Total Coliform (CFU/100 ml)	Chysico - chemical Test Results: pH Value. 6.5-8.5 Temperature(degree C) Total Dissolved Solid (mg/L) Turbidity (NTU) Residual Free Chlorine (mg/L) Odour Agreeable memical Test Results: Total Hardness (mg/L) Total Alkalinity (mg/L) Chloride (mg/L) Absent (Acceptable Limit) (IS 10500-2012) 0.5-8.5 1.00 0.20 Agreeable 1.00 Total Alkalinity (mg/L) 200.00 Total Alkalinity (mg/L) Absent	(Acceptable Limit) (IS 10500-2012) in the absence alternate Source (IS 10500-2012)	(Acceptable Limit) (IS 10500-2012) in the absence alternate Source (IS 10500-2012) OUTLET OF O.H.R.	Cacceptable Limit (IS 10500-2012)	CAcceptable Limit (IS 10500-2012)	Caceptable Limit (IS 10500-2012)		

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

Sd/Chemist & Bacteriologist
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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 - I

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

Date of Testing: 06.12.19

Sl.	Characteristic	Requirement	Permissible Limit			SOURCE (PH	E SUPPLY)		
No		(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source			ZONE	- I		
		(15 10300-2012)	(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	AA - 03	AD - 26	AC - 107	AC - 50
A.]	Physico-chemical Test Resu	ilts:							
1	pH Value.	6.5-8.5	6.5-8.5	7.59	7.70	7.65	7.67	7.66	7.67
2	Temperature(degree C)			24.4	24.6	24.4	24.3	24.2	24.4
3	Total Dissolved Solid (mg/L)	500.00	2000.00	163.2	163.8	164.7	163.5	164.1	163.7
4	Turbidity (NTU)	1.00	5.00	1.14	0.80	0.88	0.92	0.69	1.10
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.4	0.2	0.1	0.15	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	147.81	147.81	151.80	147.81	151.80	151.80
8	Total Alkalinity (mg/L)	200.00	600.00	142.80	142.80	146.88	142.80	146.88	142.80
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	15.43	15.43	15.43	15.43	15.43	15.43
C. I	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.H.R OVER HEAD RES	ERVOIR NF - NOT FO	IIND				<u> </u>	1	<u> </u>

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

Sd/Chemist & Bacteriologist
Central Water Testing Laboratory
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 - II

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

Date of Testing: 06.12.19

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of	SOURCE (PHE SUPPLY)							
		(IS 10500-2012)	alternate Source			ZONE -	· II				
			(IS 10500-2012)	INLET OF	OUTLET OF O.H.R.	NEWTOWN BUS	BA-120	AB-13	AB - 72		
				O.H.R.		TERMINOUS	BA-120	AB-13	AB - /2		
A. F	hysico-chemical Test Resu	lts:									
1	pH Value.	6.5-8.5	6.5-8.5	7.56	7.78	7.72	7.72	7.70	7.71		
2	Temperature(degree C)			24.5	24.3	24.3	24.1	24.4	24.3		
3	Total Dissolved Solid (mg/L)	500.00	2000.00	163.4	162.9	163.7	162.8	163.2	162.9		
4	Turbidity (NTU)	1.00	5.00	0.79	1.73	1.38	1.11	1.00	1.09		
5	Residual Free Chlorine			0.2	0.35	0.15	0.1	0.2	0.15		
	(mg/L)	0.20	1.00								
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
В. (Chemical Test Results:		I.					<u> </u>			
7	Total Hardness (mg/L)	200.00	600.00	147.81	147.81	151.80	147.81	151.80	147.81		
8	Total Alkalinity (mg/L)	200.00	600.00	142.80	142.80	146.88	142.80	142.80	142.80		
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	15.43	15.43	15.43	15.43	15.43	15.43		
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		
						1					

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

Sd/Chemist & Bacteriologist
Central Water Testing Laboratory
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 - VII</u>
Sub.: Water Testing (Physico-chemical, Chemical & Bacteriological) Date of Testing: 17.12.19

Sl.	Characteristic	Requirement	Permissible Limit			SOURCE (I	PHE SUPPLY)		
No		(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source			ZON	E - VII		
			(IS 10500-2012)	INLET OF	OUTLET OF	DC - 57	DF - 94	HIDCO Adm.	DA-88
				O.H.R.	O.H.R.			Building	
A. Ph	ysico-chemical Test Results:	1			1	1			1
1	pH Value.	6.5-8.5	6.5-8.5	7.62	7.66	7.72	7.73	7.67	7.71
2	Temperature(degree C)			24.2	24.4	24.2	23.9	23.8	23.8
3	Total Dissolved Solid.	500.00	2000.00	171.4	172.1	171.6	170.6	170.8	171.0
4	Turbidity, (NTU)	1.00	5.00	1.03	1.19	1.57	1.57	1.34	1.62
5	Residual Free Chlorine	0.20	1.00	0.1	0.4	0.15	0.15	0.1	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Cl	nemical Test Results:	•							
7	Total Hardness, (mg/L)	200.00	600.00	143.42	143.42	143.42	139.44	139.44	143.42
8	Total Alkalinity, (mg/L)	200.00	600.00	144.20	148.32	144.20	144.20	144.20	144.20
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	15.43	15.43	15.43	15.43	15.43	15.43
C. Ba	ncteriological 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.

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. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of	SOURCE (PHE SUPPLY) ZONE - VIII							
		(IS 10500-2012)	0500-2012) alternate Source (IS 10500-2012)		OUTLET OF	DA-30	DA-136	DC-23	DB-222		
			(- , , , , , , , , , , , , , , , , , ,	O.H.R.	O.H.R.						
A. Pł	nysico-chemical Test Results:	•	<u> </u>			•	1	1	l .		
1	pH Value.	6.5-8.5	6.5-8.5	7.76	7.77	7.72	7.73	7.71	7.74		
2	Temperature(degree C)			23.9	23.8	23.9	23.7	23.9	23.9		
3	Total Dissolved Solid.	500.00	2000.00	171.2	171.3	171.0	170.6	171.1	170.8		
4	Turbidity. (NTU)	1.00	5.00	1.58	1.73	1.19	1.61	1.63	1.41		
5	Residual Free Chlorine	0.20	1.00	0.75	0.35	0.15	0.1	0.2	0.2		
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
B. C	hemical Test Results:	1	1		•	•	I		l		
7	Total Hardness. (mg/L)	200.00	600.00	143.42	143.42	143.42	139.44	143.42	143.42		
8	Total Alkalinity. (mg/L)	200.00	600.00	148.32	148.32	144.20	144.20	148.32	144.20		
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	15.43	15.43	15.43	15.43	15.43	15.43		
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		

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: 17.12.19

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)

Sl. No	Characteristic	Requirement	Permissible Limit		SOURCE (PHE SUPPLY)	
110		(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source		ZONE - X	
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	GREEN FIELD 4D
A. Physi	ico-chemical Test Results:					
1	pH Value.	6.5-8.5	6.5-8.5	7.62	7.77	7.77
2	Temperature(degree C)			23.3	23.1	23.1
3	Total Dissolved Solid(mg/L)	500.00	2000.00	170.8	170.5	170.6
4	Turbidity, (NTU)	1.00	5.00	1.70	1.38	1.17
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.1	0.35	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Cher	nical Test Results:	_				
7	Total Hardness, (mg/L)	200.00	600.00	143.42	143.42	143.42
8	Total Alkalinity, (mg/L)	200.00	600.00	144.20	144.20	144.20
9	Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250.00	1000.00	17.36	17.36	17.36
,	Bacteriological Test Results :	•				
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.
	0 11 D 0 0 11 D D D D	COVOID N. F. NOT FOUND			<u> </u>	

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: 18.12.19

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: 18.12.19

Sl. No		Requirement	Permissible Limit		SOURCE (PH	E SUPPLY)	
NO	Characteristic	(Acceptable Limit) (IS 10500-2012)	in the absence				
		(15 10500-2012)	of alternate		ZONE		
			Source	INLET OF O.H.R.	OUTLET OF O.H.R.	Rishi Tower	DAWAT
			(IS 10500-2012)				RESTAURANT
A. Ph	nysico-chemical Test Results:						
1	pH Value.	6.5-8.5	6.5-8.5	7.63	7.66	7.71	7.75
2	Temperature(degree C)			23.5	23.4	23.5	23.6
3	Total Dissolved Solid. (mg/L)	500.00	2000.00	171.7	170.7	170.8	170.8
4	Turbidity, (NTU)	1.00	5.00	1.03	1.04	1.10	1.53
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.3	0.35	0.2	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. С	hemical Test Results:		•				
7	Total Hardness, (mg/L)	200.00	600.00	147.41	143.42	143.42	143.42
8	Total Alkalinity, (mg/L)	200.00	600.00	148.32	144.20	144.20	144.20
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	17.36	17.36	17.36	17.36
C.Ba	cteriological Test Results :	•	•		<u>. </u>		<u>•</u>
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.

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 - VI

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

Date of Testing: 19.12.19

Sl. No	(4	Requirement (Acceptable Limit)	Permissible Limit in the absence of	SOURCE (PHE SUPPLY)							
		(IS 10500-2012)	alternate Source (IS 10500-2012)	ZONE - VI							
			(13 10300-2012)	OUTLET OF O.H.R.	NBCC	CE/1/A/97	CE-74	CE-197			
	A. Physico - chemical Tes	st Results:									
1	pH Value.	6.5-8.5	6.5-8.5	7.68	7.73	7.76	7.76	7.74			
2	Temperature(degree C)			23.3	23.5	23.4	23.4	23.3			
3	Total Dissolved Solid (mg/L)	500.00	2000.00	171.6	171.4	171.1	171.3	170.8			
4	Turbidity (NTU)	1.00	5.00	1.02	1.66	1.57	1.47	1.55			
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.35	0.2	0.2	0.15			
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
	B. Chemical Test Results	: :				<u> </u>	l	l			
7	Total Hardness (mg/L)	200.00	600.00	139.44	143.42	139.44	143.42	139.44			
8	Total Alkalinity (mg/L)	200.00	600.00	148.32	144.20	144.20	144.20	144.20			

O.H.R. - OVER HEAD RESERVOIR,

Sd/Chemist
Central Water Testing Laboratory
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: <u>AA – I, ZONE – III</u>

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

Date of Testing: 19.12.19

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of			SOURCE (PHE SU	JPPLY)		
		(IS 10500-2012)	alternate Source			ZONE - II	ĺ		
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R	NKDA Office	AI/153/18	AL/1/C/40	AL/1/C/4
	A. Physico-chemical Tes	st Results :		1					1
1	pH Value.	6.5-8.5	6.5-8.5	7.60	7.69	7.69	7.70	7.70	7.71
2	Temperature(degree C)			23.3	23.3	23.2	23.2	23.4	23.3
3	Total Dissolved Solid (mg/L)	500.00	2000.00	171.6	170.9	171.2	170.9	171.5	171.0
4	Turbidity, (NTU)	1.00	5.00	1.09	1.19	1.76	0.85	1.37	1.40
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.45	0.15	0.15	0.2	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	B. Chemical Test R	esults:	1	1	1		1		1
7	Total Hardness, (mg/L)	200.00	600.00	139.44	139.44	139.44	139.44	139.44	139.44
8	Total Alkalinity, (mg/L)	200.00	600.00	144.20	144.20	144.20	144.20	144.20	144.20

O.H.R. - OVER HEAD RESERVOIR,

Sd/Chemist
Central Water Testing Laboratory
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 RUILDING. WATER TREATMENT PLANT SITE, NEAR TANK NO.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)

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of	SOURCE (PHE SUPPLY)						
		(IS 10500-2012)	alternate Source (IS 10500-2012)							
				INLET OF	OUTLET OF	BE - 17	Senior	BB - 50	BC - 105	
				O.H.R.	O.H.R.		Citizen Park			
A. Ph	ysico-chemical Test Results:									
1	pH Value.	6.5-8.5	6.5-8.5	7.70	7.70	7.72	7.73	7.74	7.74	
2	Temperature(degree C)			23.5	23.5	23.6	23.4	23.5	23.5	
3	Total Dissolved Solid (mg/L)	500.00	2000.00	173.4	173.5	173.2	173.3	173.3	173.3	
4	Turbidity (NTU)	1.00	5.00	1.10	1.43	1.44	1.40	1.53	1.86	
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.25	0.4	0.15	0.2	0.2	0.2	
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	
B. C	hemical Test Results:			1			1		1	
7	Total Hardness (mg/L)	200.00	600.00	147.41	147.41	147.41	147.41	147.41	147.41	
8	Total Alkalinity (mg/L)	200.00	600.00	144.20	144.20	144.20	144.20	144.20	144.20	

O.H.R. - OVER HEAD RESERVOIR

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

Date of Testing: 20.12.19

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)

Sl. No	Characteristic	Requirement (Acceptable	Permissible Limit			SOURCE (PHE	SUPPLY)		
140		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	CB-08	CA-81
	A. Physico - chemical Test	Results:							
1	pH Value.	6.5-8.5	6.5-8.5	7.69	7.75	7.77	7.82	7.82	7.84
2	Temperature(degree C)			23.4	23.4	23.4	23.5	23.5	23.6
3	Total Dissolved Solid (mg/L)	500.00	2000.00	174.8	173.5	173.5	172.8	173.3	172.7
4	Turbidity (NTU)	1.00	5.00	1.43	1.52	1.79	1.67	1.25	1.46
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.3	0.1	0.15	0.2	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. (Chemical Test Results:			1		1			
7	Total Hardness (mg/L)	200.00	600.00	151.39	147.41	147.41	147.41	147.41	147.41
8	Total Alkalinity (mg/L)	200.00	600.00	148.32	148.32	148.32	144.20	148.32	144.20

O.H.R. - OVER HEAD RESERVOIR,

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

Date of Testing: 20.12.19

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)

Sl. N	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of			SOURCE (PH	IE SUPPLY)					
0		(IS 10500-2012)	alternate Source	ZONE - I								
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF O.H.R.	AD - 26	AC - 50	AC - 107	AA - 05			
Α.	 Physico-chemical Test Res	ults:	1									
1	pH Value.	6.5-8.5	6.5-8.5	7.68	7.73	7.71	7.68	7.74	7.71			
2	Temperature(degree C)			23.3	23.2	23.5	23.5	23.4	23.5			
3	Total Dissolved Solid (mg/L)	500.00	2000.00	175.0	174.8	175.3	175.1	174.7	174.7			
4	Turbidity (NTU)	1.00	5.00	1.36	1.52	1.13	1.40	1.62	1.44			
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.4	0.15	0.2	0.2	0.15			
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
В.	Chemical Test Results:	1	1		1		1		ı			
7	Total Hardness (mg/L)	200.00	600.00	151.39	151.39	155.38	151.39	151.39	151.39			
8	Total Alkalinity (mg/L)	200.00	600.00	148.32	144.20	148.32	148.32	144.20	144.20			

O.H.R. - OVER HEAD RESERVOIR,

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

Date of Testing: 23.12.19

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)

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit			SOURCE (P	HE SUPPLY)		
		(IS 10500-2012)	in the absence of alternate			ZON	NE - II		
			Source	INLET OF O.H.R.	OUTLET OF O.H.R.	New Town Bus Terminus	BA - 120	AB - 13	AB - 72
A. I	 Physico-chemical Test Res	ults:	(IS 10500-2012)	O.H.K.	U.H.K.	Terminus			
1	pH Value.	6.5-8.5	6.5-8.5	7.61	7.75	7.74	7.78	7.74	7.78
2	Temperature(degree C)			23.5	23.5	23.5	23.6	23.6	23.4
3	Total Dissolved Solid (mg/L)	500.00	2000.00	175.9	175.0	175.2	174.9	175.7	174.7
4	Turbidity (NTU)	1.00	5.00	1.03	1.35	0.98	1.24	1.29	1.33
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.35	0.4	0.2	0.15	0.2	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В.	Chemical Test Results:	<u> </u>				I I			
7	Total Hardness (mg/L)	200.00	600.00	155.38	151.39	155.38	151.39	155.38	151.39
8	Total Alkalinity (mg/L)	200.00	600.00	152.44	148.32	148.32	148.32	152.44	148.32

O.H.R. - OVER HEAD RESERVOIR,

GOVERNMENT OF WEST BENGAL
DIRECTORATE OF PUBLIC HEALTH ENGINEERING
OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DI
ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK!
NEW TOWN, RAJARHAT, KOLKATA – 700 156

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

Date of Testing: 23.12.19

TEST REPORT: AA – I, ZONE – VII

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

Date of Testing: 30.12.19

Sl.	Characteristic	Requirement	Permissible Limit	SOURCE (PHE SUPPLY)
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						ZONE -	VII		
				INLET OF	OUTLET OF	DC-57	DF - 94	HIDCO Admin.	DA - 88
				O.H.R.	O.H.R.			Building	
A. Ph	ysico-chemical Test Results:			-	•	1	1	1	
1	pH Value.	6.5-8.5	6.5-8.5	7.74	7.78	7.82	7.85	7.74	7.81
2	Temperature(degree C)			23.4	23.5	23.4	23.6	23.5	23.7
3	Total Dissolved Solid.	500.00	2000.00	178.5	178.7	178.7	178.4	179.3	178.7
4	Turbidity, (NTU)	1.00	5.00	1.57	1.71	1.42	1.21	1.25	1.31
5	Residual Free Chlorine	0.20	1.00	0.25	0.35	0.2	0.1	0.1	0.2
6	Odour	Agreeable	Agreeable						
B. Cl	nemical Test Results:		1		<u>I</u>	<u> </u>			
7	Total Hardness, (mg/L)	200.00	600.00	155.38	155.38	159.36	155.38	159.36	159.36
8	Total Alkalinity, (mg/L)	200.00	600.00	152.44	152.44	152.44	152.44	156.56	156.56

O.H.R. - OVER HEAD RESERVOIR

Sd/Chemist
Central Water Testing Laboratory
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 – VIII

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

Date of Testing: 30.12.19

Sl.	Characteristic	Requirement	Permissible Limit			SOURCE (I	PHE SUPPLY)		
No		(Acceptable Limit) (IS 10500-2012)	in the absence of alternate Source			ZON	E - VIII		
			(IS 10500-2012)	INLET OF	OUTLET OF	DA-30	DA-136	DC-23	DB-222
				O.H.R.	O.H.R.				

A. P	hysico-chemical Test Results:								
1	pH Value.	6.5-8.5	6.5-8.5	7.76	7.75	7.83	7.79	7.85	7.82
2	Temperature(degree C)			23.3	23.3	23.3	23.2	23.5	23.5
3	Total Dissolved Solid(mg/L)	500.00	2000.00	179.7	178.8	178.5	178.5	178.6	178.3
4	Turbidity (NTU)	1.00	5.00	1.37	1.77	1.70	1.82	1.32	1.03
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.55	0.4	0.2	0.1	0.15	0.2
6	Odour	Agreeable							
В. С	Chemical Test Results:				1	l		1	1
7	Total Hardness. (mg/L)	200.00	600.00	159.36	155.38	155.38	155.38	155.38	155.38
8	Total Alkalinity. (mg/L)	200.00	600.00	156.56	156.56	152.44	152.44	156.56	152.44

O.H.R. - OVER HEAD RESERVOIR

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

ACTION AREA – II (DECEMBER' 2019)

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 A, ZONE – X

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

Date of Testing: 04.12.19

Sl. No	Characteristic	Requirement 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. P	Physico-chemical Test Results:	1	1		1				
1	pH Value.	6.5-8.5	6.5-8.5	7.50	7.71	7.74			
2	Temperature (degree C)			24.6	24.4	24.3			
3	Total Dissolved Solid (mg/L)	500.00	2000.00	162.1	161.2	161.4			
4	Turbidity (NTU)	1.00	5.00	1.63	1.18	1.41			
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.1	0.25	0.2			
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			

7	Total Hardness (mg/L)	200.00	600.00	147.81	147.81	147.81
8	Total Alkalinity (mg/L)	200.00	600.00	134.64	130.56	130.56
9	Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250.00	1000.00	17.36	17.36	17.36
C .Ba	acteriological Test Results :				1	
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

Sd/Chemist & Bacteriologist
Central Water Testing Laboratory
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: <u>AA – II B, ZONE – IV</u>

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

Date of Testing: 04.12.19

Sl. No	Characteristic	Requirement	Permissible Limit			SOUI	RCE (PHE S	UPPLY)		
110		(Acceptable Limit) (IS 10500-2012)/	(IS 10500-2012)/ (CPHEEO)			A	A – IIB, ZONI	E - IV		
		(CPHEEO)		INLET OF O.H.R.	OUTLET OF O.H.R.	HILAND WILLOWS	ANAHITA	MALANCHA	NKDA MARKET	ECO URBAN VILLAGE
A. I	Physico-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	7.73	7.57	7.49	7.53	7.52	7.65	7.52
2	Temperature (degree C)			24.4	24.4	24.4	24.3	24.5	24.3	24.4
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	162.2	161.8	161.6	161.6	161.6	162.8	162.6
4	Turbidity (NTU)	1/1	5/10	1.56	1.46	1.57	1.79	1.69	1.61	1.23
		0.2/0.2	0.2/1.0	<0.1	0.2	0.6	0.3	0.1	0.35	0.7
	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/1.0	~0.1						

7	Total Hardness (mg/L)	200/200	600/600	147.81	147.81	147.81	147.81	147.81	151.80	151.80
8	Total Alkalinity (mg/L)	200/200	600/600	134.64	130.56	130.56	130.56	130.56	134.64	134.64
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	17.36	17.36	17.36	17.36	17.36	17.36	17.36
C .B	Sacteriological Test Results :									
11	Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F						
12	Fecal Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	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.

GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH E! FICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLK ADMINISTRATIVE BUILDING, WATER TREATMENT PINEW TOWN, RAJARHAT, KOLKATA

TEST REPORT: AA – II C, ZO., ... – .

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

Date of Testing: 16.12.19

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit			SOURCE (PHI	E SUPPLY)		
		(IS 10500-2012)	in the absence of alternate Source						
			(IS 10500-2012)	INLET OF O.H.R.	OUTLET OF	AKANKHA	NKDA MKT	HILAND	MOON
					O.H.R.			WOODS	BEAM
A.]	Physico-chemical Test Resul	ts:							
1	pH Value.	6.5-8.5	6.5-8.5	7.59	7.57	7.73	7.78	7.76	7.83
2	Temperature (degree C)			23.7	23.7	23.7	23.9	23.7	23.6
	Total Dissolved Solid (mg/L)	500.00	2000.00	169.3	170.2	170.4	169.6	169.7	169.5
3		200.00	2000.00						
4	Turbidity (NTU)	1.00	5.00	1.39	1.31	1.35	1.38	1.32	1.34
	Turbidity (NTU) Residual Free Chlorine (mg/L)			1.39 0.1	1.31 0.45	1.35 0.15	1.38 0.35	1.32 0.2	1.34 0.25

7	Total Hardness (mg/L)	200.00	600.00	143.42	147.41	147.41	147.41	147.41	147.41	
8	Total Alkalinity (mg/L)	200.00	600.00	144.20	148.32	148.32	148.32	148.32	144.20	
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	15.43	15.43	15.43	15.43	15.43	15.43	
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	

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

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

Date of Testing: 16.12.19

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, Z	ZONE - V			
				INLET OF O.H.R.	OUTLET OF O.H.R.	ALATIKA	GREEN WOOD SONATA		
A. Ph	ysico-chemical Test Results:								
1	pH Value.	6.5-8.5	6.5-8.5	7.55	7.81	7.53	7.62		
2	Temperature (degree C)			24.1	24.1	24.0	24.1		
3	Total Dissolved Solid (mg/L)	500.00	2000.00	171.8	168.4	169.4	169.5		
4	Turbidity (NTU)	1.00	5.00	1.11	1.42	1.49	1.36		
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.1	0.2	0.2	0.15		
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
В. С	Chemical Test Results:								
7	Total Hardness (mg/L)	200.00	600.00	147.41	143.42	143.42	143.42		
8	Total Alkalinity (mg/L)	200.00	600.00	148.32	144.20	144.20	144.20		

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	15.43	15.43	15.43	15.43			
C. 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/-

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

Date of Testing: 16.12.19

GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERI... 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)

SOURCE (PHE SUPPLY) Characteristic Requirement **Permissible Limit** (Acceptable Limit) in the absence of AA – IID, ZONE - VI (IS 10500-2012) alternate Source (IS 10500-2012) INLET OF **OUTLET OF** GREEN SHRACHI O.H.R. FIELD AMBITION O.H.R. GREENWOOD **ELEMENT** A. Physico-chemical Test Results: pH Value. 7.54 7.49 7.66 7.64 1 6.5-8.5 6.5-8.5 Temperature (degree C) 2 24.1 23.9 23.9 23.8 3 Total Dissolved Solid (mg/L) 169.1 168.8 169.7 170.0 500.00 2000.00 Turbidity (NTU) 0.94 4 1.56 1.39 1.32 5.00 1.00 Residual Free Chlorine (mg/L) 0.2 0.1 0.7 0.65 0.20 1.00 Odour Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable **B.** Chemical Test Results: Total Hardness (mg/L) 143.42 139.44 147.41 143.42 200.00 600.00 Total Alkalinity (mg/L) 144.20 144.20 148.32 148.32 8 200.00 600.00 9 Iron(as Fe) (mg/L) < 0.1 < 0.1 < 0.1 < 0.1 1.0 No Relaxation Chloride (mg/L) 15.43 15.43 10 15.43 15.43 250.00 1000.00 C. Bacteriological Test Results: Total Coliform (CFU/100 ml) N.F N.F N.F N.F Absent Absent

	12	Fecal Coliform (CFU/100 ml)	Absent	Absent	N.F	N.F	N.F	N.F
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O.H.R. - OVER HEAD RESERVOIR, N.F. - NOT FOUND

Sd/Chemist & Bacteriologist
Central Water Testing Laboratory

NTKD - I P.H.E. Dte.

GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERING OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: AA – IIG, ZONE – XI

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

Date of Testing: 18.12.19

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012) Permissible Limit in the absence of alternate Source (IS 10500-2012)		SOURCE (PHE SUPPLY) AA – IIG, ZONE - XI INLET OF O.H.R. OUTLET OF O.H.R. EDEN COURT					
A. Phy	vsico-chemical Test Results:								
1	pH Value.	6.5-8.5	6.5-8.5	7.70	7.71	7.71			
2	Temperature (degree C)			23.4	23.6	23.6			
3	Total Dissolved Solid (mg/L)	500.00	2000.00	170.7	170.9	171.5			
4	Turbidity (NTU)	1.00	5.00	1.57	1.50	1.59			
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.35	0.25	0.2			
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
B. Cher	nical Test Results:		,		,				
7	Total Hardness (mg/L)	200.00	600.00	143.42	143.42	147.41			
8	Total Alkalinity (mg/L)	200.00	600.00	144.20	144.20	148.32			
9	Iron(as Fe) (mg/L)	1.0	No Relaxation	<0.1	<0.1	<0.1			
10	Chloride (mg/L)	250.00	1000.00	17.36	17.36	17.36			

C. Ba	C. Bacteriological Test Results:										
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.					

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

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 A, ZONE – X

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

Date of Testing: 27.12.19

Sl. 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	Sd/-	VERSITY			
A. P	hysico-chemical Test Results:				Chemist & Bacteriolo Central Water Testing Lal	_			
1	pH Value.	6.5-8.5	6.5-8.5	7.60	NTKD - I P.H.E. Dt	- 1			
2	Temperature (degree C)			23.3		3			
3	Total Dissolved Solid (mg/L)	500.00	2000.00	178.5	178.6	178.7			
4	Turbidity (NTU)	1.00	5.00	1.55	1.07	0.98			
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.25	0.35	0.2			
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
В. (Chemical Test Results:			•					
7	Total Hardness (mg/L)	200.00	600.00	155.38	155.38	155.38			
8	Total Alkalinity (mg/L)	200.00	600.00	152.44	152.44	156.56			

O.H.R. - OVER HEAD RESERVOIR

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

Date of Testing: 27.12.19

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)

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the absence of	SOURCE (PHE SUPPLY)								
		(IS 10500-2012)	alternate Source	ernate 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		
A. P	Physico-chemical Test Results:											
1	pH Value.	6.5-8.5	6.5-8.5	7.68	7.68	7.61	7.61	7.58	7.58	7.58		
2	Temperature (degree C)			23.4	23.4	23.3	23.3	23.4	23.5	23.3		
3	Total Dissolved Solid (mg/L)	500.00	2000.00	179.2	179.3	179.9	180.2	180.0	179.9	179.7		
4	Turbidity (NTU)	1.00	5.00	0.82	1.08	1.10	1.09	1.33	1.27	1.16		
5	Residual Free Chlorine (mg/L)	0.20	1.00	<0.1	0.25	0.65	0.45	0.5	0.6	0.9		
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
В. (B. Chemical Test Results:											
7	Total Hardness (mg/L)	200.00	600.00	155.38	155.38	155.38	159.36	155.38	155.38	155.38		
8	Total Alkalinity (mg/L)	200.00	600.00	156.56	156.56	156.56	156.56	156.56	156.56	156.56		

O.H.R. - OVER HEAD RESERVOIR,

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