WATER QUALITY ANANALYSIS REPORT AT DIFFERENT LOCATIONS OF NEW TOWN KOLKATA PROJECT, DURING MONTH DECEMBER' 2018

ACTION AREA – I (DECEMBER' 2018)

TEST REPORT: ACTION AREA -I, ZONE - I

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

Permissible Limit SOURCE (PHE SUPPLY) Sl. Characteristic Requirement No (Acceptable Limit) (IS 10500-2012)/ ZONE - I (IS 10500-2012)/ (CPHEEO) (CPHEEO) INLET OF O.H.R. OUTLET OF AD - 17 AD - 27 AA-03 O.H.R. A. Physico-chemical Test Results: pH Value. 7.37 7.49 7.60 7.62 7.63 6.5 to 8.5/7.0 to 8.5 6.5 to 8.5/6.5 to 9.2 2 **Temperature(degree C)** 24.7 24.8 24.7 24.8 24.8 3 Total Dissolved Solid (mg/L) 174.0 174.7 174.9 174.9 174.9 500/500 2000/2000 Turbidity (NTU) 4 1.27 1.39 1.37 1.35 1.28 1/1 5/10 5 Residual Free Chlorine (mg/L) 0.2/0.2 0.2/>1.0 0.3 0.4 0.2 0.2 0.15 Odour Agreeable/ Agreeable Agreeable/ Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable **B.** Chemical Test Results: 7 Total Hardness (mg/L) 200/200 600/600 157.91 162.18 162.18 162.18 162.18

142.60

147.20

O.H.R. - OVER HEAD RESERVOIR

200/200

600/600

Total Alkalinity (mg/L)

8

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

147.20

Date of Testing: 03.12.18

147.20

147.20

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)

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/		:	SOURCE (PHE SUF	PPLY)			
INLET OF O.H.R. OUTLET OF O.H.R. AD-1 BA-120 AB-28	1,0		(IS 10500-2012)/	` /	ZONE - II						
1 pH Value. 6.5 to 8.5/7.0 to 8.5 6.5 to 8.5/6.5 to 9.2 7.62 7.64 7.66 7.70 7.69 2 Temperature(degree C) 24.9 24.8 24.9 24.9 24.9 3 Total Dissolved Solid (mg/L) 500/500 2000/2000 174.5 174.5 174.2 174.2 174.3 4 Turbidity (NTU) 1/1 5/10 1.13 1.31 1.15 1.29 1.27 5 Residual Free Chlorine (mg/L) 0.2/0.2 0.2/>1.0 0.25 0.4 0.15 0.1 0.2 6 Odour Agreeable / Agreeable Agreeable / Agreeable Agreeable Agreeable Agreeable Agreeable B. Chemical Test Results: 7 Total Hardness (mg/L) 200/200 600/600 157.91 157.91 157.91 157.91 157.91			(CI HEEO)		-		AD-1	BA-120	AB-28		
2 Temperature(degree C) 24.9 24.9 24.8 24.9 24.9 24.9 3 Total Dissolved Solid (mg/L) 500/500 2000/2000 174.5 174.5 174.2 174.2 174.2 4 Turbidity (NTU) 1/1 5/10 1.13 1.31 1.15 1.29 1.27 5 Residual Free Chlorine (mg/L) 0.2/0.2 0.2/>1.0 0.25 0.4 0.15 0.1 0.2 6 Odour Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable B. Chemical Test Results: 7 Total Hardness (mg/L) 200/200 600/600 157.91 157.9	A. F	Physico-chemical Test Results	S:	<u> </u>							
Total Dissolved Solid (mg/L) 500/500 2000/2000 174.5 174.5 174.2 174.2 174.2 174.3	1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.62	7.64	7.66	7.70	7.69		
4 Turbidity (NTU) 1/1 5/10 1.13 1.31 1.15 1.29 1.27 5 Residual Free Chlorine (mg/L) 0.2/0.2 0.2/>1.0 0.25 0.4 0.15 0.1 0.2 6 Odour Agreeable 7 B. Chemical Test Results: 7 Total Hardness (mg/L) 200/200 600/600 157.91 157.91 157.91 157.91 157.91	2	Temperature(degree C)			24.9	24.8	24.9	24.9	24.9		
5 Residual Free Chlorine (mg/L) 0.2/0.2 0.2/>1.0 0.25 0.4 0.15 0.1 0.2 6 Odour Agreeable/ Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable B. Chemical Test Results: 7 Total Hardness (mg/L) 200/200 600/600 157.91 157.91 157.91 157.91 157.91	3	Total Dissolved Solid (mg/L)	500/500	2000/2000	174.5	174.5	174.2	174.2	174.3		
6 Odour Agreeable B. Chemical Test Results: 7 Total Hardness (mg/L) 200/200 600/600 157.91 157.91 157.91 157.91 157.91	4	Turbidity (NTU)	1/1	5/10	1.13	1.31	1.15	1.29	1.27		
B. Chemical Test Results: 7 Total Hardness (mg/L) 200/200 600/600 157.91 157.91 157.91 157.91 157.91	5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.25	0.4	0.15	0.1	0.2		
7 Total Hardness (mg/L) 200/200 600/600 157.91 157.91 157.91 157.91 157.91	6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
	В.	Chemical Test Results:	I	1							
8 Total Alkalinity (mg/L) 200/200 600/600 142.60 142.60 142.60 147.20	7	Total Hardness (mg/L)	200/200	600/600	157.91	157.91	157.91	157.91	157.91		
	8	Total Alkalinity (mg/L)	200/200	600/600	142.60	142.60	142.60	142.60	147.20		

O.H.R. - OVER HEAD RESERVOIR

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

Date of Testing: 03.12.18

TEST REPORT: ACTION AREA -I , ZONE - IV

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

Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/	SOURCE (PHE SUPPLY)						
	(IS 10500-2012)/ (CPHEEO)	(CPHEEO)	ZONE - IV						
			INLET OF O.H.R.	OUTLET OF O.H.R.	BA-95	BC-141	BA-92		
sico-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	7.64	7.67	7.69	7.74	7.73		
Temperature(degree C)			24.8	24.7	24.9	24.8	24.7		
Total Dissolved Solid (mg/L)	500/500	2000/2000	174.2	174.0	174.1	174.0	174.0		
Turbidity (NTU)	1/1	5/10	1.09	1.27	1.21	1.36	1.20		
Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.3	0.4	0.15	0.15	0.2		
Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
emical Test Results:			L	<u>l</u>					
Total Hardness (mg/L)	200/200	600/600	157.91	157.91	157.91	157.91	157.91		
Total Alkalinity (mg/L)	200/200	600/600	142.60	142.60	142.60	142.60	142.60		
	sico-chemical Test Results: pH Value. Temperature(degree C) Total Dissolved Solid (mg/L) Turbidity (NTU) Residual Free Chlorine (mg/L) Odour emical Test Results: Total Hardness (mg/L)	Limit) (IS 10500-2012)/ (CPHEEO) Sico-chemical Test Results: pH Value. 6.5 to 8.5/7.0 to 8.5 Temperature(degree C) Total Dissolved Solid (mg/L) Turbidity (NTU) Residual Free Chlorine (mg/L) Odour Agreeable/ Agreeable emical Test Results: Total Hardness (mg/L) 200/200	Limit (IS 10500-2012)/ (CPHEEO) (CPHEEO)	Limit (IS 10500-2012)/ (CPHEEO)	Limit (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEEO) (IS 10500-2012)/ (CPHEOO) (IS 10500-2012)/ (CPHEOO)	Limit (IS 10500-2012)/ (CPHEEO) (CPHEEO)	Limit (IS 10500-2012)/ (CPHEEO) (CPHEEO)		

O.H.R. - OVER HEAD RESERVOIR

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

Date of Testing: 03.12.18

DIRECTORATE OF PUBLIC HEALTH ENGINEERING

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

TEST REPORT: ACTION AREA - I, ZONE - V

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

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/			SOURCE (PHE SU	JPPLY)		
110		(IS 10500-2012)/	(CPHEEO)	ZONE - V					
		(СРНЕЕО)		INLET OF O.H.R.	OUTLET OF O.H.R.	CA-82	CD-125	CB-08	
A	. Physico - chemical Test Results:	L	l.					L	
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.65	7.68	7.70	7.71	7.73	
2	Temperature(degree C)			24.5	24.8	24.9	24.9	24.9	
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	175.2	175.4	175.5	175.4	175.4	
4	Turbidity (NTU)	1/1	5/10	1.30	1.45	1.68	1.84	1.76	
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.4	0.45	0.15	0.2	0.2	
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	
B. Ch	emical Test Results:								
7	Total Hardness (mg/L)	200/200	600/600	157.91	157.91	162.18	157.91	157.91	
8	Total Alkalinity (mg/L)	200/200	600/600	142.60	147.20	147.20	147.20	142.60	

O.H.R. - OVER HEAD RESERVOIR,

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

Date of Testing: 04.12.18

TEST REPORT: ACTION AREA - I, ZONE - VI

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

Date of Testing: 04.12.18

Sl. No	Characteristic	Requirement	Permissible Limit		SOU	RCE (PHE SUPPI	LY)				
No		(Acceptable Limit) (IS 10500-2012)/	(IS 10500-2012)/ (CPHEEO)								
		(СРНЕЕО)		INLET OF O.H.R.	OUTLET OF O.H.R.	CE-104	CE/1/8/124	CE-74			
	A. Physico - chemical Test	t Results:									
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.39	7.51	7.57	7.63	7.66			
2	Temperature(degree C)			24.5	24.4	23.9	24.6	24.7			
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	175.7	175.6	176.1	175.8	175.6			
4	Turbidity (NTU)	1/1	5/10	1.51	1.36	1.86	1.68	1.49			
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.3	0.25	0.1	0.1	0.1			
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
	B. Chemical Test Results:	l						I			
7	Total Hardness (mg/L)	200/200	600/600	162.18	162.18	162.18	162.18	162.18			
8	Total Alkalinity (mg/L)	200/200	600/600	147.20	142.60	147.20	142.60	142.60			

O.H.R. - OVER HEAD RESERVOIR,

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

TEST REPORT: AA – I, ZONE – III

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

Requirement (Acceptable SOURCE (PHE SUPPLY) Characteristic Permissible Limit (IS 10500-2012)/ No Limit) (IS 10500-2012)/ (CPHEEO) ZONE - III (CPHEEO) INLET OF O.H.R. OUTLET OF O.H.R. NKDA AI/153/18 AI-12 A. 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 7.42 7.53 7.56 7.59 7.62 Temperature(degree C) 24.3 24.3 24.3 24.1 24.2 3 Total Dissolved Solid (mg/L) 500/500 2000/2000 174.3 175.4 176.1 175.9 176.3 Turbidity, (NTU) 1/1 1.32 1.30 1.33 5/10 1.04 1.34 5 Residual Free Chlorine 0.2/0.2 0.2/>1.0 0.55 0.4 0.15 0.2 0.2 (mg/L) Odour Agreeable/Agreeable Agreeable/ Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable **B.** Chemical Test Results:

157.91

147.20

162.18

151.80

600/600

600/600

O.H.R. - OVER HEAD RESERVOIR,

200/200

200/200

Total Hardness, (mg/L)

Total Alkalinity, (mg/L)

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

162.18

151.80

162.18

151.80

Date of Testing: 06.12.18

162.18

147.20

TEST REPORT: AA – I, ZONE – VII

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

O.H.R. - OVER HEAD RESERVOIR

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/			SOURCE (PHE SUI	PPLY)	
		(IS 10500-2012)/ (CPHEEO)	(СРНЕЕО)			ZONE - VII		
				INLET OF	OUTLET OF	DC-57	DC-174	HIDCO BUILDING
				O.H.R.	O.H.R.			
A. Ph	ysico-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	7.77	7.76	7.74	7.81	7.73
2	Temperature(degree C)			23.2	23.2	23.2	23.2	23.1
3	Total Dissolved Solid.	500/500	2000/2000	176.7	176.8	177.0	177.6	177.6
4	Turbidity, (NTU)	1/1	5/10	1.16	1.62	1.57	1.72	1.75
5	Residual Free Chlorine	0.2/0.2	0.2/>1.0	0.2	0.35	0.2	0.2	0.1
6	Odour	Agreeable/Agreeabl	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. С	Chemical Test Results:							
7	Total Hardness, (mg/L)	200/200	600/600	149.38	153.64	153.64	153.64	153.64
8	Total Alkalinity, (mg/L)	200/200	600/600	142.60	142.60	138	142.60	142.60

O.H.R. - OVER HEAD RESERVOIR

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

Date of Testing: 11.12.18

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

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

Sl. N	Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/			SOURCE (PHE SU				
0		(IS 10500-2012)/ (CPHEEO)	(СРНЕЕО)	ZONE - VIII						
				INLET OF O.H.R.	OUTLET OF O.H.R.	DB-222	DA-94	DC-27		
A. P	hysico-chemical Test Results:	•			1			1		
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.43	7.62	7.72	7.81	7.81		
2	Temperature(degree C)			23.3	23.1	23.3	23.3	23.2		
3	Total Dissolved Solid.	500/500	2000/2000	176.5	177.5	177.5	177.2	177.1		
4	Turbidity, (NTU)	1/1	5/10	1.24	1.67	1.58	1.63	1.58		
5	Residual Free Chlorine	0.2/0.2	0.2/>1.0	0.5	0.15	0.15	0.1	0.1		
6	Odour	Agreeable/Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
В. (Chemical Test Results:									
7	Total Hardness, (mg/L)	200/200	600/600	149.88	153.64	153.64	153.64	153.64		
8	Total Alkalinity, (mg/L)	200/200	600/600	138	142.60	142.60	142.60	138		

O.H.R. - OVER HEAD RESERVOIR

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

Date of Testing: 11.12.18

TEST REPORT: AA - I, ZONE - X

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

Date of Testing: 14.12.18

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/	SOURCE (PHE SUPPLY)						
		(IS 10500-2012)/ (CPHEEO)	(СРНЕЕО)	ZONE - X						
				INLET OF O.H.R.	OUTLET OF O.H.R.	AL-AMEENATION DJ/4/9	AIR FORCE DJ/6			
A. Phy	vsico-chemical Test Results:	1	,			1	•			
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.77	7.78	7.78	7.76			
2	Temperature(degree C)			24.7	24.9	24.9	24.9			
3	Total Dissolved Solid(mg/L)	500/500	2000/2000	177.5	177.5	177.9	177.6			
4	Turbidity, (NTU)	1/1	5/10	1.25	1.20	1.20	1.26			
5	Residual Free Chlorine(mg/L)	0.2/0.2	0.2/>1.0	0.1	0.4	0.2	0.15			
6	Odour	Agreeable/Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
B. Ch	emical Test Results:									
7	Total Hardness, (mg/L)	200/200	600/600	153.64	153.64	153.64	153.64			
8	Total Alkalinity, (mg/L)	200/200	600/600	142.60	142.60	142.60	142.60			

O.H.R. - OVER HEAD RESERVOIR

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

TEST REPORT: <u>AA – I, ZONE – IX</u>

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

Sl. No		Requirement	Permissible Limit		SOURCE (PHE S	UPPLY)				
110	Characteristic	(Acceptable Limit) (IS 10500-2012)/	(IS 10500-2012)/ (CPHEEO)	ZONE - IX						
		(СРНЕЕО)		INLET OF O.H.R.	OUTLET OF O.H.R.	Dawat Restaurant	TATA MEDICAL CENTRE			
A. Ph	ysico-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	7.71	7.73	7.77	7.77			
2	Temperature(degree C)			24.8	24.7	24.7	24.7			
3	Total Dissolved Solid. (mg/L)	500/500	2000/2000	178.7	177.8	177.6	177.7			
4	Turbidity, (NTU)	1/1	5/10	1.32	1.42	1.13	1.14			
5	Residual Free Chlorine(mg/L)	0.2/0.2	0.2/>1.0	0.2	0.3	0.2	0.15			
6	Odour	Agreeable/Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
B. Cl	hemical Test Results:	1	1				1			
7	Total Hardness, (mg/L)	200/200	600/600	157.91	153.64	153.64	153.64			
8	Total Alkalinity, (mg/L)	200/200	600/600	142.60	138	138	138			

O.H.R. - OVER HEAD RESERVOIR,

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

Date of Testing: 14.12.18

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

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

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/		S	SOURCE (PHE SUI	PPLY)				
		(IS 10500-2012)/ (CPHEEO)	(CPHEEO)			ZONE - II	П				
		(CI HEEO)		BA-12	BA/12/4/C	BA-11					
				O.H.R.	O.H.R.						
A. P	hysico-chemical Test Result	s:	1		1		1				
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.67	7.72	7.77	7.93	7.84			
2	Temperature(degree C)			23.3	23.3	23.2	23.4	23.3			
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	177.4	177.7	177.6	182.3	178.8			
4	Turbidity (NTU)	1/1	5/10	1.24	1.40	1.57	0.95	1.39			
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.2	0.25	0.15	0.1	0.1			
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
В. (Chemical Test Results:										
7	Total Hardness (mg/L)	200/200	600/600	157.91	162.18	157.91	162.18	162.18			
8	Total Alkalinity (mg/L)	200/200	600/600	142.60	142.60	142.60	142.60	147.20			
9	Iron(as Fe), mg/L	0.3/0.1	0.3/1.0	<0.1	<0.1	<0.1	<0.1	<0.1			
10	Chloride (mg/L)	250/200	1000/1000	19.42	17.48	19.42	17.48	17.48			
c.Ba	cteriological Test Results :	1	1								
	TO LICEUS (CETTION I)	Absent/Absent	Absent/Absent	N.F.	N.F.	N.F.	N.F.	N.F.			
11	Total Coliform (CFU/100 ml)	11000110/11000110									

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: 17.12.18

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

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

Date of Testing: 17.12.18

(IS 1050 (CPH) Test Results: Value. 6.5 to 8.5	00-2012)/ (EEO)	10500-2012)/ CPHEEO)	INLET OF O.H.R.	OUTLET OF O.H.R.	ONE - VIII DA-13	DA-4	DA-112
Test Results: Value. 6.5 to 8.5	- /		INLET OF O.H.R.	OUTLET OF O.H.R.	DA-13	DA-4	DA-112
Value. 6.5 to 8.5	/7.0 to 8.5 6.5 t	0.7/0.7.		•			
	/7.0 to 8.5 6.5 t	0 = /0 = 1 0 0					
ire(degree C) -		o 8.5/6.5 to 9.2	7.48	7.62	7.58	7.64	7.72
, 0			23.4	23.4	23.1	23.2	23.2
solved Solid. 500	/500	2000/2000	177.4	177.7	177.1	177.8	177.7
ity. (NTU)	/1	5/10	1.50	1.27	1.21	1.31	1.33
ree Chlorine 0.2	/0.2	0.2/>1.0	0.3	0.15	0.1	0.1	0.1
dour Agreeable	0	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
sults:	•						
dness. (mg/L) 200	/200	600/600	157.91	162.18	157.91	162.18	162.18
linity. (mg/L) 200	/200	600/600	142.60	147.20	142.60	142.60	142.60
Fe). (mg/L) 0.3	/0.1	0.3/1.0	<0.1	<0.1	<0.1	<0.1	<0.1
le. (mg/L) 250	/200	1000/1000	17.48	19.42	17.48	17.48	19.42
est Results:		1		1			
m (CFII/100 ml) Abcont/	Absent Abser	nt/Absent	N.F.	N.F.	N.F.	N.F.	N.F.
m (CFC/100 mi) Absent/						,	
l	ness. (mg/L) 200 inity. (mg/L) 200 'e). (mg/L) 0.3 e. (mg/L) 250 st Results:	ults: ness. (mg/L) 200/200 inity. (mg/L) 200/200 ie). (mg/L) 0.3/0.1 e. (mg/L) 250/200 st Results:	ults: ness. (mg/L) 200/200 600/600 inity. (mg/L) 200/200 600/600 e). (mg/L) 0.3/0.1 0.3/1.0 e. (mg/L) 250/200 1000/1000 st Results:	ults: ness. (mg/L) 200/200 600/600 157.91 inity. (mg/L) 200/200 600/600 142.60 e). (mg/L) 0.3/0.1 0.3/1.0 <0.1 e. (mg/L) 250/200 1000/1000 17.48 st Results:	ults: ness. (mg/L) 200/200 600/600 157.91 162.18 inity. (mg/L) 200/200 600/600 142.60 147.20 'e). (mg/L) 0.3/0.1 0.3/1.0 <0.1	ults: ness. (mg/L) 200/200 600/600 157.91 162.18 157.91 inity. (mg/L) 200/200 600/600 142.60 147.20 142.60 e). (mg/L) 0.3/0.1 0.3/1.0 <0.1 <0.1 <0.1 e. (mg/L) 250/200 1000/1000 17.48 19.42 17.48 st Results:	ults: ness. (mg/L) 200/200 600/600 157.91 162.18 157.91 162.18 inity. (mg/L) 200/200 600/600 142.60 147.20 142.60 142.60 e). (mg/L) 0.3/0.1 0.3/1.0 <0.1 <0.1 <0.1 <0.1 e. (mg/L) 250/200 1000/1000 17.48 19.42 17.48 17.48 st Results:

NF- NOT FOUND. O.H.R. - OVER HEAD RESERVOIR

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 - V

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

Date of Testing: 18.12.18

Sl.	Characteristic	Requirement	Permissible Limit		SO	URCE (PHE SUPP	LY)	
No		(Acceptable Limit) (IS 10500-2012)/	(IS 10500-2012)/ (CPHEEO)			ZONE - V		
		(CPHEEO)	(01111111111111111111111111111111111111	INLET OF	OUTLET OF	CA-32	CA-174	CB-08
				O.H.R.	O.H.R.			
	A. Physico - chemical Test Resu	ılts:						
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.85	7.85	7.97	7.91	7.87
2	Temperature(degree C)			23.3	23.4	23.4	23.3	23.3
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	178.3	178.1	171.6	178.2	178.3
4	Turbidity (NTU)	1/1	5/10	1.17	1.24	1.37	1.19	1.44
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.4	0.3	0.1	0.2	0.1
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В. С	hemical Test Results:							
7	Total Hardness (mg/L)	200/200	600/600	162.18	162.18	157.91	157.91	162.18
8	Total Alkalinity (mg/L)	200/200	600/600	142.60	142.60	142.60	142.60	147.20
9	Iron(as Fe), mg/L	0.3/0.1	0.3/1.0	<0.1	<0.1	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250/200	1000/1000	19.42	17.48	17.48	19.42	17.48
	C. Bacteriological Test Results :	1	1	-L	1		I	I.
11	Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F.	N.F.	N.F.	N.F.	N.F.
12	Fecal Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F.	N.F.	N.F.	N.F.	N.F.
	O II D OVED HEAD DECEDY		1	1	L	<u> </u>	L	<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

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 - VI

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

I .	Characteristic	Requirement	Permissible Limit		SO	URCE (PHE SUP	PLY)	
0		(Acceptable Limit) (IS 10500-2012)/	(IS 10500-2012)/ (CPHEEO)			ZONE - VI		
		(CPHEEO)	(INLET OF O.H.R.	OUTLET OF	CE-104	CE/1/C/202	CE-74
					O.H.R.			
	A. Physico - chemical Test	Results:	1					
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.55	7.69	7.73	7.82	7.84
2	Temperature(degree C)			23.3	23.4	23.3	23.3	23.3
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	177.0	178.1	178.6	177.9	178.6
4	Turbidity (NTU)	1/1	5/10	1.27	1.20	1.10	1.05	1.26
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.3	0.15	0.1	0.1	0.1
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	B. Chemical Test Results:						l l	
7	Total Hardness (mg/L)	200/200	600/600	157.91	162.18	162.18	157.91	162.18
	Total Alkalinity (mg/L)	200/200	600/600	142.60	147.20	147.20	147.20	174.80
8	Total Mikamity (mg/L)	200/200		1.2.00				
	Iron(as Fe), mg/L	0.3/0.1	0.3/1.0	<0.1	<0.1	<0.1	<0.1	<0.1
9	ţ , e ,					<0.1	<0.1 17.48	<0.1
)	Iron(as Fe), mg/L	0.3/0.1 250/200	0.3/1.0	<0.1	<0.1			
8 9 10 11	Iron(as Fe), mg/L Chloride (mg/L)	0.3/0.1 250/200	0.3/1.0	<0.1	<0.1			

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: 18.12.18

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)

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/			SOURCE (PHE SUP	PLY)	
		(IS 10500-2012)/ (CPHEEO)	(CPHEEO)			ZONE - I		
		(CFHEEO)		INLET OF O.H.R.	OUTLET OF O.H.R.	AC-19	AC-46	AC-107
A. I	Physico-chemical Test Result	s:						
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.58	7.65	7.69	7.71	7.72
2	Temperature(degree C)			23.3	23.3	23.2	23.2	23.2
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	179.6	180.2	180.1	179.6	179.6
4	Turbidity (NTU)	1/1	5/10	0.91	0.79	0.75	2.38	0.87
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.2	0.45	0.2	0.2	0.15
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В.	Chemical Test Results:							
7	Total Hardness (mg/L)	200/200	600/600	157.91	157.91	157.91	153.64	153.64
8	Total Alkalinity (mg/L)	200/200	600/600	138	138	133.40	133.40	133.40
9	Iron(as Fe), mg/L	0.3/0.1	0.3/1.0	<0.1	<0.1	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250/200	1000/1000	17.48	19.42	19.42	17.48	17.48
C. B	acteriological Test Results :	•		. 1				•
11	Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F.	N.F.	N.F.	N.F.	N.F.
12	Fecal Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	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: 24.12.18

TEST REPORT: AA – I, ZONE – III

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

Date of Testing: 24.12.18

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/		SOUR	CE (PHE SUPPLY)		
No		(IS 10500-2012)/	(CPHEEO)			ZONE - III		
		(СРНЕЕО)		INLET OF O.H.R.	OUTLET OF O.H.R	NKDA.	AI/153/18	AL/1/C/40
	A. Physico-chemical T	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	7.68	7.76	7.73	7.77	7.77
2	Temperature(degree C)			23.3	23.3	23.3	23.4	23.3
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	179.7	180.1	180.6	180.5	180.1
4	Turbidity, (NTU)	1/1	5/10	1.16	0.89	0.73	0.86	0.90
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.35	0.3	0.2	0.2	0.15
6	Odour	Agreeable/Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
	B. Chemical Test Res	ults:		I	1		1	
7	Total Hardness, (mg/L)	200/200	600/600	157.91	157.91	157.91	153.64	153.64
8	Total Alkalinity, (mg/L)	200/200	600/600	138	133.40	138	138	133.40
9	Iron(as Fe), mg/L	0.3/0.1	0.3/1.0	<0.1	<0.1	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250/200	1000/1000	17.48	19.42	19.42	19.42	17.48
	C. Bacteriological Test Results	; :		I			-1	
11	Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F.	N.F.	N.F.	N.F.	N.F.
12	Fecal Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F.	N.F.	N.F.	N.F.	N.F.
		ECERTIOIS N.E. NOT		1	L			

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: ACTION AREA -I, ZONE - IV

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

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/		SOUI	RCE (PHE SUPP	LY)	
		(IS 10500-2012)/ (CPHEEO)	(СРНЕЕО)			ZONE - IV		
				INLET OF O.H.R.	OUTLET OF O.H.R.	BB-107	BE-17	BB-50
A. Phys	sico-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	7.49	7.64	7.73	7.76	7.75
2	Temperature(degree C)			23.2	23.2	23.3	23.3	23.3
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	181.9	182.5	182.4	181.9	182.0
4	Turbidity (NTU)	1/1	5/10	1.19	1.30	1.39	1.55	1.26
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.25	0.3	0.15	0.1	0.2
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Che	emical Test Results:						<u> </u>	l
7	Total Hardness (mg/L)	200/200	600/600	157.91	162.18	162.18	157.91	162.18
8	Total Alkalinity (mg/L)	200/200	600/600	144	148.80	148.80	148.80	148.80
9	Iron(as Fe), mg/L	0.3/0.1	0.3/1.0	<0.1	<0.1	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250/200	1000/1000	17.48	19.42	17.48	17.48	19.42
CBact	eriological Test Results :			1	l		<u>I</u>	1
11	Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F.	N.F.	N.F.	N.F.	N.F.
12	Fecal Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F.	N.F.	N.F.	N.F.	N.F.
	O II D OVED HEAD DECEDY						l	

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: 28.12.18

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 & Bacteriological)

Sl.	Characteristic	Requirement	Permissible Limit		SO	URCE (PHE SUPPL	Y)				
No		(Acceptable Limit) (IS 10500-2012)/	(IS 10500-2012)/ (CPHEEO)								
		(СРНЕЕО)			INLET OF O.H.R.	OUTLET OF O.H.R.	DC-243	DF-94	DC-186		
A. Ph	nysico-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	7.82	7.83	7.80	7.80			
2	Temperature(degree C)			23.4	23.4	23.3	23.3	23.3			
3	Total Dissolved Solid.	500/500	2000/2000	182.2	182.1	181.7	181.6	181.6			
4	Turbidity, (NTU)	1/1	5/10	0.98	1.63	1.76	1.89	1.71			
5	Residual Free Chlorine	0.2/0.2	0.2/>1.0	0.2	0.35	0.15	0.2	0.2			
6	Odour	Agreeable/Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable			
B. C	hemical Test Results:				<u> </u>						
7	Total Hardness, (mg/L)	200/200	600/600	162.18	162.18	157.91	157.91	157.91			
8	Total Alkalinity, (mg/L)	200/200	600/600	148.80	148.80	144	144	144			
9	Iron(as Fe), (mg/L)	0.3/0.1	0.3/1.0	<0.1	<0.1	<0.1	<0.1	<0.1			
10	Chloride, (mg/L)	250/200	1000/1000	19.42	19.42	17.48	17.48	17.48			
C. Ba	acteriological Test Results:	1	1								
11	Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F.	N.F.	N.F.	N.F.	N.F.			
12	Fecal Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F.	N.F.	N.F.	N.F.	N.F.			

NF- NOT FOUND, O.H.R. - OVER HEAD RESERVOIR

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

Date of Testing: 28.12.18

ACTION AREA – II (DECEMBER' 2018)

TEST REPORT: AA – II A, ZONE – X

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

Sl. No	Characteristic	Requirement	Permissible Limit		SOURCE (PHE SUPPLY)	
		(Acceptable Limit) (IS 10500-2012)/	(IS 10500-2012)/ (CPHEEO)		AA – IIA, ZONE – X	
		(CPHEEO)		INLET OF O.H.R.	OUTLET OF O.H.R.	ALIAH UNIVERSITY
A.]	Physico-chemical Test Resul	ts:				
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.75	7.87	7.92
2	Temperature (degree C)			24.1	24.1	24.1
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	176.3	175.6	175.7
4	Turbidity (NTU)	1/1	5/10	1.87	1.43	1.32
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	<0.01	0.25	0.2
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable
В.	Chemical Test Results:					
7	Total Hardness (mg/L)	200/200	600/600	157.91	153.64	157.91
8	Total Alkalinity (mg/L)	200/200	600/600	151.80	147.20	147.20

O.H.R. - OVER HEAD RESERVOIR

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

Date of Testing: 07.12.18

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

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

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/			SO	URCE (PHE	SUPPLY)			
		(IS 10500-2012)/)12)/ (CPHEEO) AA – IIB, ZONE - IV								
		(СРНЕЕО)		INLET OF O.H.R.	OUTLET OF O.H.R.	HILAND WILLOWS	ANAHITA	MALANCHA	NKDA MKT.	ECO URBAN VILLAGE	
A. P	Physico-chemical Test Results:			ı			ı	1	1		
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.71	7.74	7.77	7.72	7.68	7.74	7.75	
2	Temperature (degree C)			24.1	24.1	24.0	24.0	23.9	24.0	24.1	
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	175.7	175.6	175.9	176.3	176.3	175.4	176.3	
4	Turbidity (NTU)	1/1	5/10	1.58	1.31	1.70	1.44	1.27	1.37	1.63	
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	<0.01	0.45	0.1	0.35	0.4	0.3	0.25	
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	
В. (Chemical Test Results:										
7	Total Hardness (mg/L)	200/200	600/600	153.64	153.64	157.91	157.91	157.91	153.64	157.91	
8	Total Alkalinity (mg/L)	200/200	600/600	147.20	147.20	147.20	151.80	151.80	147.20	151.80	

O.H.R. - OVER HEAD RESERVOIR

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

Date of Testing: 07.12.18

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 C, ZONE – I</u>

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

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/			SOURCE (F	PHE SUPPLY)		
		(IS 10500-2012)/ (CPHEEO)	(СРНЕЕО)			AA – IIC	C, ZONE - I		
				INLET OF O.H.R.	OUTLET OF O.H.R.	AKANKHA	STARL IT COMPLEX	HILAND WOODS	MOON BEAM
A. I	Physico-chemical Test Result	ts:	I						l
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	7.74	7.79	7.81	7.82	7.84
2	Temperature (degree C)			24.4	24.5	24.3	24.2	24.3	24.3
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	178.3	178.5	178.3	177.9	177.8	177.8
4	Turbidity (NTU)	1/1	5/10	1.55	1.43	1.56	1.36	1.12	1.17
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.15	0.4	0.2	0.3	0.25	0.35
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
В.	Chemical Test Results:			1			1		
7	Total Hardness (mg/L)	200/200	600/600	157.92	157.92	157.92	153.65	153.65	153.65
8	Total Alkalinity (mg/L)	200/200	600/600	142.6	142.6	142.6	138	138	138

O.H.R. - OVER HEAD RESERVOIR

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

24

Date of Testing: 13.12.18

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

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

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/		SOURCE (PHE	E SUPPLY)			
		(IS 10500-2012)/ (CPHEEO)	(СРНЕЕО)		AA – IID, ZO	ONE - V			
		(0		INLET OF O.H.R.	OUTLET OF O.H.R.	ALATIKA	UTTARA		
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	7.76	7.82	7.81	7.78		
2	Temperature (degree C)			24.2	24.2	24.3	24.2		
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	178.0	177.9	178.0	178.4		
4	Turbidity (NTU)	1/1	5/10	1.50	1.40	1.57	1.85		
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.15	0.4	0.3	0.2		
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
В.	Chemical Test Results:		•				•		
7	Total Hardness (mg/L)	200/200	600/600	153.64	153.64	157.91	153.64		
8	Total Alkalinity (mg/L)	200/200	600/600	142.60	142.60	138	138		

O.H.R. - OVER HEAD RESERVOIR,

N.F-NOT FOUND

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

Date of Testing: 13.12.18

NEW TOWN, RAJARHAT, KOLKATA – 700 156

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

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

Date of Testing: 13.12.18

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/		SOURCE (PHE SUPP	LY)
		(IS 10500-2012)/ (CPHEEO)	(CPHEEO)		AA – IID, ZONE - V	I
		(CFIEEO)		INLET OF O.H.R.	OUTLET OF O.H.R.	GREENWOOD SHRACHI
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	7.78	7.82	7.78
2	Temperature (degree C)			24.4	24.3	24.3
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	179.0	179.8	178.4
4	Turbidity (NTU)	1/1	5/10	1.57	1.91	1.77
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.1	0.3	0.2
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable
В. 6	Chemical Test Results:	1	, ,		- 1	
7	Total Hardness (mg/L)	200/200	600/600	157.91	162.18	157.91
8	Total Alkalinity (mg/L)	200/200	600/600	84.94	84.94	82.20

O.H.R.OVERHEADRESERVOIR,

Sd/Chemist
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 – IIG, ZONE – XI

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

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)/	Permissible Limit (IS 10500-2012)/	SC	SOURCE (PHE SUPPLY)			
		(CPHEEO)	(CPHEEO)		AA – IIG, ZONE - XI			
				INLET OF O.H.R.	OUTLET OF O.H.R.	EDEN COURT		
A. Ph	ysico-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	7.72	7.80	7.83		
2	Temperature (degree C)			24.7	24.7	24.7		
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	178.6	178.1	177.9		
4	Turbidity (NTU)	1/1	5/10	1.44	1.63	1.52		
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.35	0.3	0.2		
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable		
В. С	hemical Test Results:		1		1			
7	Total Hardness (mg/L)	200/200	600/600	157.91	157.91	153.64		
8	Total Alkalinity (mg/L)	200/200	600/600	142.60	142.60	138		

O.H.R. - OVER HEAD RESERVOIR

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

Date of Testing: 14.12.18

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: 21.12.18

Sl. N	Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/		SOURCE (PHE SUPPLY)	
0		(IS 10500-2012)/	(CPHEEO)		AA – IIA, ZONE – X	
		(CPHEEO)		INLET OF O.H.R.	OUTLET OF O.H.R.	ALIAH UNIVERSITY
Α.	Physico-chemical Test Res	ults:			<u> </u>	
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.74	7.78	7.83
2	Temperature (degree C)			23.3	23.2	23.2
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	179.4	179.8	179.4
4	Turbidity (NTU)	1/1	5/10	1.36	1.26	0.96
5	Residual Free Chlorine	0.2/0.2	0.2/>1.0	<0.01	0.25	0.2
	(mg/L)					
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable
В.	Chemical Test Results:					
7	Total Hardness (mg/L)	200/200	600/600	157.91	162.18	157.91
8	Total Alkalinity (mg/L)	200/200	600/600	142.60	138	142.60
9	Iron(as Fe), mg/L	0.3/0.1	0.3/1.0	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250/200	1000/1000	17.48	19.42	19.42
С	Bacteriological Test Results :	1	l l			
11	Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F.	N.F.	N.F.
12	Fecal Coliform (CFU/100 ml)	Absent/Absent	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.

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

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

Sl. No	Characteristic	Requirement (Acceptable Limit)	Permissible Limit (IS 10500-2012)/				SOURCE (P	HE SUPPLY)		
		(IS 10500-2012)/	(CPHEEO)				AA – IIB	, ZONE - IV			
		(СРНЕЕО)		INLET OF O.H.R.	OUTLET OF O.H.R.	HILAND WILLOWS	ANAHITA	MAHUA MADHABI	MALANCHA	NKDA MARKET	ECO URBAN VILLAG E
A. I	Physico-chemical Test Result	s:				•					
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.57	7.64	7.68	7.67	7.66	7.65	7.64	7.75
2	Temperature (degree C)			23.3	23.3	23.2	23.2	23.2	23.3	23.3	23.3
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	178.6	179.7	179.1	179.7	179.7	179.3	179.7	179.4
4	Turbidity (NTU)	1/1	5/10	1.50	1.32	1.54	1.02	1.05	1.22	1.04	1.44
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.15	0.2	0.1	0.2	0.15	0.25	0.1	0.2
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	157.91	162.18	162.18	162.18	162.18	162.18	162.18	162.18
8	Total Alkalinity (mg/L)	200/200	600/600	138	142.60	142.60	142.60	138	138	142.60	138
9	Iron(as Fe), mg/L	0.3/0.1	0.3/1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250/200	1000/1000	17.48	19.42	19.42	17.48	17.48	19.42	19.42	17.48
C. .l	Bacteriological Test Results :	•	•	•			,		1		•
11	Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.
12	Fecal Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F.	N.F.	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: 21.12.18