

**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
OCTOBER' 2019**

ACTION AREA – I
(OCTOBER' 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 – I, ZONE – X

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

Date of Testing: 16.10.19

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)		
				ZONE - X		
				INLET OF O.H.R.	OUTLET OF O.H.R.	GREEN FIELD – 4D
A. Physico-chemical Test Results:						
1	pH Value.	6.5-8.5	6.5-8.5	7.16	7.33	7.40
2	Temperature(degree C)	----	----	25.8	25.9	25.9
3	Total Dissolved Solid(mg/L)	500.00	2000.00	124.7	124.5	124.1
4	Turbidity, (NTU)	1.00	5.00	1.45	1.79	1.59
5	Residual Free Chlorine(mg/L)	0.20	1.00	<0.1	0.4	0.25
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:						
7	Total Hardness, (mg/L)	200.00	600.00	105.98	105.98	105.98
8	Total Alkalinity, (mg/L)	200.00	600.00	113.0	108.48	108.48

O.H.R. – OVER HEAD RESERVOIR

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

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

TEST REPORT: AA – I, ZONE – IX

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

Date of Testing: 16.10.19

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)		
				ZONE - IX		
				INLET OF O.H.R.	OUTLET OF O.H.R.	DAWAT RESTAURANT
A. Physico-chemical Test Results:						
1	pH Value.	6.5-8.5	6.5-8.5	7.32	7.34	7.35
2	Temperature(degree C)	----	----	25.7	25.7	25.8
3	Total Dissolved Solid. (mg/L)	500.00	2000.00	124.3	124.4	123.9
4	Turbidity, (NTU)	1.00	5.00	1.21	1.56	1.76
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.25	0.35	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:						
7	Total Hardness, (mg/L)	200.00	600.00	105.98	105.98	105.98
8	Total Alkalinity, (mg/L)	200.00	600.00	113.0	108.48	113.0

O.H.R. – OVER HEAD RESERVOIR

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NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: AA – I, ZONE – VII
Sub. : Water Testing (Physico-chemical, Chemical & Bacteriological)

Date of Testing: 21.10.19

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)					
				ZONE - VII					
				INLET OF O.H.R.	OUTLET OF O.H.R.	DC - 57	DF - 94	HIDCO Adm. Building	DA-88
A. Physico-chemical Test Results:									
1	pH Value.	6.5-8.5	6.5-8.5	7.39	7.50	7.48	7.41	7.40	7.43
2	Temperature(degree C)	----	----	26.5	26.5	26.5	26.6	26.5	26.6
3	Total Dissolved Solid.	500.00	2000.00	123.4	122.9	123.1	123.9	123.8	123.0
4	Turbidity, (NTU)	1.00	5.00	1.21	1.50	1.16	1.58	1.76	1.63
5	Residual Free Chlorine	0.20	1.00	0.2	0.3	0.25	0.1	<0.1	0.1
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:									
7	Total Hardness, (mg/L)	200.00	600.00	101.90	97.82	97.82	101.90	101.90	97.82
8	Total Alkalinity, (mg/L)	200.00	600.00	103.96	103.96	103.96	108.48	108.48	103.96
9	Iron(as Fe), (mg/L)	1.0	No Relaxation	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
10	Chloride, (mg/L)	250.00	1000.00	13.70	13.70	13.70	13.70	13.70	13.70
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

Sd/-
Chemist & Bacteriologist
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 NEW TOWN, RAJARHAT, KOLKATA – 700 156

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

Date of Testing: 21.10.19

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)					
				ZONE - VIII					
				INLET OF O.H.R.	OUTLET OF O.H.R.	DA-30	DA-136	DC-23	DB-222
A. Physico-chemical Test Results:									
1	pH Value.	6.5-8.5	6.5-8.5	7.48	7.49	7.44	7.45	7.47	7.46
2	Temperature(degree C)	----	----	26.6	26.6	26.7	26.7	26.7	26.6
3	Total Dissolved Solid.	500.00	2000.00	123.3	123.0	124.6	123.0	122.7	122.5
4	Turbidity. (NTU)	1.00	5.00	1.70	1.76	1.35	1.60	1.60	1.31
5	Residual Free Chlorine	0.20	1.00	0.6	0.2	<0.1	0.1	0.1	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:									
7	Total Hardness. (mg/L)	200.00	600.00	101.90	97.82	101.90	97.82	97.82	97.82
8	Total Alkalinity. (mg/L)	200.00	600.00	103.96	103.96	108.48	103.96	103.96	103.96
9	Iron(as Fe). (mg/L)	1.0	No Relaxation	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
10	Chloride. (mg/L)	250.00	1000.00	13.70	13.70	13.70	13.70	13.70	13.70
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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NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: ACTION AREA -I, ZONE - I

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

Date of Testing: 25.10.19

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)				
				ZONE - I				
				INLET OF O.H.R.	OUTLET OF O.H.R.	AC - 50	AD - I	AC - 107
A. Physico-chemical Test Results:								
1	pH Value.	6.5-8.5	6.5-8.5	7.42	7.43	7.43	7.45	7.48
2	Temperature(degree C)	----	----	25.3	25.3	25.3	25.1	25.2
3	Total Dissolved Solid (mg/L)	500.00	2000.00	125.5	125.5	125.8	125.7	125.9
4	Turbidity (NTU)	1.00	5.00	1.37	1.28	1.86	1.78	1.87
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.1	0.35	0.15	0.35	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:								
7	Total Hardness (mg/L)	200.00	600.00	122.28	122.28	122.28	122.28	122.28
8	Total Alkalinity (mg/L)	200.00	600.00	113.0	108.48	113.0	113.0	113.0
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	17.61	17.61	17.61	17.61	17.61
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

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

ACTION AREA – II
(OCTOBER' 2019)

GOVERNMENT OF WEST BENGAL
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NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: AA – IIG, ZONE – XI

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

Date of Testing: 16.10.19

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. Physico-chemical Test Results:						
1	pH Value.	6.5-8.5	6.5-8.5	7.41	7.42	7.43
2	Temperature (degree C)	----	----	25.7	25.7	25.7
3	Total Dissolved Solid (mg/L)	500.00	2000.00	124.8	123.5	123.2
4	Turbidity (NTU)	1.00	5.00	2.42	2.85	2.57
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.35	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:						
7	Total Hardness (mg/L)	200.00	600.00	105.98	101.90	105.98
8	Total Alkalinity (mg/L)	200.00	600.00	113.0	108.48	108.48

O.H.R. – OVER HEAD RESERVOIR

Sd/-
Chemist
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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: 23.10.19

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)		
				AA – IIA, ZONE – X		
				INLET OF O.H.R.	OUTLET OF O.H.R.	Aliah University
A. Physico-chemical Test Results:						
1	pH Value.	6.5-8.5	6.5-8.5	7.30	7.37	7.38
2	Temperature (degree C)	----	----	26.3	26.4	26.4
3	Total Dissolved Solid (mg/L)	500.00	2000.00	123.9	123.4	123.3
4	Turbidity (NTU)	1.00	5.00	1.75	1.84	1.88
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.2	0.35	0.25
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:						
7	Total Hardness (mg/L)	200.00	600.00	101.90	101.90	101.90
8	Total Alkalinity (mg/L)	200.00	600.00	108.48	108.48	103.96
9	Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250.00	1000.00	13.70	13.70	13.70
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

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.

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NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: AA – II B, ZONE – IV

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

Date of Testing: 23.10.19

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)/ (CPHEEO)	Permissible Limit (IS 10500-2012)/ (CPHEEO)	SOURCE (PHE SUPPLY)						
				AA – IIB, ZONE - IV						
				INLET OF O.H.R.	OUTLET OF O.H.R.	HILAND WILLOWS	MAHUA MADHABI	MALANCHA	NKDA MARKET	ECO URBAN VILLAGE
A. 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	7.30	7.32	7.28	7.35	7.20	7.21	7.23
2	Temperature (degree C)	----	----	26.4	26.6	26.4	26.4	26.5	26.2	26.3
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	123.5	122.9	123.7	122.9	123.7	123.0	123.1
4	Turbidity (NTU)	1/1	5/10	2.05	1.96	2.49	2.24	2.52	2.33	2.55
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/1.0	<0.1	0.2	0.5	0.35	0.45	0.2	0.6
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:										
7	Total Hardness (mg/L)	200/200	600/600	101.90	97.82	101.90	97.82	101.90	101.90	101.90
8	Total Alkalinity (mg/L)	200/200	600/600	108.48	103.96	108.48	103.96	108.48	103.96	103.96
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	13.70	13.70	13.70	13.70	13.70	13.70	13.70
C .Bacteriological Test Results :										
11	Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	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

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

Sd/-
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Central Water Testing Laboratory
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