

**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
JULY' 2020**

ACTION AREA – I
(JULY' 2020)

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

TEST REPORT: ACTION AREA - I, ZONE – VI

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

Date of Testing: 06.07.2020

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)				
				ZONE - VI				
				OUTLET	NBCC	CE/1/A/97	CE-74	CE-197
A. Physico - chemical Test Results:								
1	pH Value.	6.5-8.5	6.5-8.5	7.41	7.42	7.52	7.52	7.46
2	Temperature(degree C)	----	----	27.5	27.5	27.4	27.2	27.2
3	Total Dissolved Solid (mg/L)	500.00	2000.00	128.2	128.3	128.3	128.3	127.9
4	Turbidity (NTU)	1.00	5.00	1.00	1.23	0.94	1.57	1.15
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.3	0.1	0.15	0.1
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:								
7	Total Hardness (mg/L)	200.00	600.00	117.85	121.92	121.92	121.92	117.85
8	Total Alkalinity (mg/L)	200.00	600.00	95.52	95.52	95.52	95.52	95.52

O.H.R. – OVER HEAD RESERVOIR,

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

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

Sd/-
Executive Engineer
NTKD - I P.H.E. Dte.

GOVERNMENT OF WEST BENGAL
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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)

Date of Testing: 06.07.2020

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)					
				ZONE - III					
				INLET	OUTLET	NKDA Office	AL/1/C/40	A1/153/18	AL/1/C/28
A. Physico-chemical Test Results :									
1	pH Value.	6.5-8.5	6.5-8.5	7.23	7.36	7.38	7.36	7.37	7.38
2	Temperature(degree C)	----	----	26.5	26.7	26.7	27.5	27.6	27.5
3	Total Dissolved Solid (mg/L)	500.00	2000.00	129.1	129.2	128.7	129.5	128.6	128.7
4	Turbidity, (NTU)	1.00	5.00	1.26	1.85	1.81	2.15	2.13	1.62
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.55	0.35	0.2	0.1	0.25	0.15
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results :									
7	Total Hardness, (mg/L)	200.00	600.00	121.92	121.92	121.92	121.92	121.92	121.92
8	Total Alkalinity, (mg/L)	200.00	600.00	95.52	95.52	95.52	99.5	95.52	95.52

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**GOVERNMENT OF WEST BENGAL
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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)

Date of Testing: 07.07.2020

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	DA-88
A. Physico-chemical Test Results:								
1	pH Value.	6.5-8.5	6.5-8.5	7.41	7.50	7.48	7.53	7.51
2	Temperature(degree C)	----	----	25.4	25.0	25.0	25.0	25.4
3	Total Dissolved Solid.	500.00	2000.00	130.0	128.4	130.3	129.8	127.8
4	Turbidity, (NTU)	1.00	5.00	1.71	2.42	2.26	2.61	1.83
5	Residual Free Chlorine	0.20	1.00	0.15	0.35	0.3	0.2	0.15
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:								
7	Total Hardness, (mg/L)	200.00	600.00	105.66	105.66	105.66	105.66	105.66
8	Total Alkalinity, (mg/L)	200.00	600.00	99.5	95.52	99.5	99.5	95.52

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Chemist
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NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: ACTION AREA - I, ZONE – V

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

Date of Testing: 07.07.2020

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)					
				ZONE - V					
				INLET OF O.H.R.	OUTLET OF O.H.R.	CC-201	CD - 125	CA- 81	CB-08
A. Physico - chemical Test Results:									
1	pH Value.	6.5-8.5	6.5-8.5	7.26	7.39	7.45	7.46	7.47	7.55
2	Temperature(degree C)	----	----	25.8	25.8	23.6	25.9	25.8	25.6
3	Total Dissolved Solid (mg/L)	500.00	2000.00	121.5	131.7	130.2	128.7	129.9	127.8
4	Turbidity (NTU)	1.00	5.00	1.08	1.96	2.06	2.04	2.19	2.28
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.3	0.2	0.1	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	101.6	105.66	105.66	105.66	105.66	101.6
8	Total Alkalinity (mg/L)	200.00	600.00	99.5	99.5	99.5	99.5	99.5	95.52

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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: 08.07.2020

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	DC-23	DA-136	DB-222
A. Physico-chemical Test Results:									
1	pH Value.	6.5-8.5	6.5-8.5	7.52	7.46	7.44	7.46	7.41	7.41
2	Temperature(degree C)	----	----	26.6	26.9	26.4	26.5	26.4	26.1
3	Total Dissolved Solid(mg/L)	500.00	2000.00	128.6	128.2	129.2	128.8	131.4	129.0
4	Turbidity (NTU)	1.00	5.00	1.49	1.04	0.72	0.90	1.09	1.30
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.2	0.4	0.3	0.2	0.15	0.35
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:									
7	Total Hardness. (mg/L)	200.00	600.00	105.66	105.66	109.72	105.66	109.72	109.72
8	Total Alkalinity. (mg/L)	200.00	600.00	87.56	87.56	91.54	87.56	91.54	91.54

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NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: ACTION AREA -I, ZONE - II

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

Date of Testing: 08.07.2020

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)					
				ZONE - II					
				INLET OF O.H.R.	OUTLET OF O.H.R.	New Town Bus Terminus	BA - 120	AB - 72	AB - 13
A. Physico-chemical Test Results:									
1	pH Value.	6.5-8.5	6.5-8.5	7.14	7.28	7.35	7.34	7.38	7.41
2	Temperature(degree C)	----	----	26.4	26.5	26.7	26.6	26.2	26.3
3	Total Dissolved Solid (mg/L)	500.00	2000.00	128.6	128.6	128.7	129.6	129.0	128.2
4	Turbidity (NTU)	1.00	5.00	0.72	1.26	0.64	1.20	0.28	0.35
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.25	0.4	0.3	0.1	0.25	0.13
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:									
7	Total Hardness (mg/L)	200.00	600.00	105.66	105.66	105.66	109.72	109.72	105.66
8	Total Alkalinity (mg/L)	200.00	600.00	87.56	87.56	87.56	91.54	91.54	87.56

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NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: AA – I, ZONE – X

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

Date of Testing: 09.07.2020

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	
				OUTLET OF O.H.R.	GREEN FIELD – 4D
A. Physico-chemical Test Results:					
1	pH Value.	6.5-8.5	6.5-8.5	7.30	7.37
2	Temperature(degree C)	----	----	26.2	26.3
3	Total Dissolved Solid(mg/L)	500.00	2000.00	128.3	128.8
4	Turbidity, (NTU)	1.00	5.00	2.11	1.83
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.3	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:					
7	Total Hardness, (mg/L)	200.00	600.00	106.66	106.66
8	Total Alkalinity, (mg/L)	200.00	600.00	86.24	86.24

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NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: AA – I, ZONE – XI

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

Date of Testing: 09.07.2020

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	
				INTLET OF O.H.R.	OUTLET OF O.H.R.
A. Physico-chemical Test Results:					
1	pH Value.	6.5-8.5	6.5-8.5	7.05	7.30
2	Temperature(degree C)	----	----	26.5	26.6
3	Total Dissolved Solid(mg/L)	500.00	2000.00	128.5	126.6
4	Turbidity, (NTU)	1.00	5.00	1.85	1.72
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.8	0.4
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:					
7	Total Hardness, (mg/L)	200.00	600.00	105.66	101.6
8	Total Alkalinity, (mg/L)	200.00	600.00	89.40	85.34

O.H.R. – OVER HEAD RESERVOIR

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

TEST REPORT: AA – I, ZONE – IX

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

Date of Testing: 09.07.2020

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.	RISHI TOWER	DAWAT RESTAURANT
A. Physico-chemical Test Results:							
1	pH Value.	6.5-8.5	6.5-8.5	7.19	7.32	7.41	7.34
2	Temperature(degree C)	----	----	26.3	26.2	26.5	26.1
3	Total Dissolved Solid. (mg/L)	500.00	2000.00	129.0	128.6	127.5	127.6
4	Turbidity, (NTU)	1.00	5.00	1.91	1.99	1.81	2.03
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.7	0.2	0.1	0.1
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:							
7	Total Hardness, (mg/L)	200.00	600.00	105.66	105.66	101.6	101.6
8	Total Alkalinity, (mg/L)	200.00	600.00	89.40	89.40	85.34	85.34

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: 20.07.2020

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	HIDCO Adm. Building	DF-94	DA-88
A. Physico-chemical Test Results:									
1	pH Value.	6.5-8.5	6.5-8.5	7.24	7.37	7.23	7.27	7.38	7.42
2	Temperature(degree C)	----	----	26.5	26.4	26.4	26.2	26.1	26.1
3	Total Dissolved Solid.	500.00	2000.00	124.3	124.4	126.6	126.3	124.8	124.8
4	Turbidity, (NTU)	1.00	5.00	1.08	1.80	1.41	1.57	1.82	1.83
5	Residual Free Chlorine	0.20	1.00	0.1	0.4	0.2	0.1	0.2	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:									
7	Total Hardness, (mg/L)	200.00	600.00	113.68	109.62	113.68	101.5	101.5	101.5
8	Total Alkalinity, (mg/L)	200.00	600.00	84.42	88.44	92.46	92.46	88.44	88.44
9	Iron(as Fe), (mg/L)	1.0	No Relaxation	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
10	Chloride, (mg/L)	250.00	1000.00	18.85	18.85	18.85	18.85	16.97	16.97
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
NTKD - I P.H.E. Dte.

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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: 20.07.2020

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	DC-23	DA-136	DB-222
A. Physico-chemical Test Results:									
1	pH Value.	6.5-8.5	6.5-8.5	7.35	7.35	7.35	7.30	7.48	7.44
2	Temperature(degree C)	----	----	26.4	26.3	26.3	26.1	26.8	26.7
3	Total Dissolved Solid.	500.00	2000.00	125.3	125.1	167.1	125.6	127.2	125.1
4	Turbidity. (NTU)	1.00	5.00	1.56	2.05	2.86	1.84	0.98	1.72
5	Residual Free Chlorine	0.20	1.00	0.2	0.4	0.25	0.25	0.10	0.30
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:									
7	Total Hardness. (mg/L)	200.00	600.00	101.5	113.68	121.8	101.5	113.68	101.5
8	Total Alkalinity. (mg/L)	200.00	600.00	88.44	92.46	96.48	88.44	92.46	88.44
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	15.08	16.97	20.74	16.97	18.85	16.97
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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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: 21.07.2020

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)				
				ZONE - VI				
				OUTLET OF O.H.R.	NBCC	CE I/A/97	CE - 74	CE -197
A. Physico - chemical Test Results:								
1	pH Value.	6.5-8.5	6.5-8.5	7.14	7.20	7.22	7.25	7.26
2	Temperature(degree C)	----	----	26.7	26.8	26.7	26.4	26.7
3	Total Dissolved Solid (mg/L)	500.00	2000.00	124.8	124.8	124.4	127.8	123.3
4	Turbidity (NTU)	1.00	5.00	2.18	2.37	2.69	2.32	2.64
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.4	0.25	0.35	0.1	0.3
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:								
7	Total Hardness (mg/L)	200.00	600.00	101.5	105.56	105.56	105.56	101.5
8	Total Alkalinity (mg/L)	200.00	600.00	96.48	100.5	92.46	96.48	92.46
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	22.63	18.85	16.97	18.85	16.97
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
NTKD - I P.H.E. Dte.

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

Sd/-
Executive Engineer
NTKD - I P.H.E. Dte.

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

TEST REPORT: AA – I, ZONE – III

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

Date of Testing: 21.07.2020

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)					
				ZONE - III					
				INLET OF O.H.R.	OUTLET OF O.H.R	AI/153/18	NKDA Off.	AL/1/C/40	AL/1/C/28
A. Physico-chemical Test Results :									
1	pH Value.	6.5-8.5	6.5-8.5	7.0	7.06	7.10	7.16	7.18	7.18
2	Temperature(degree C)	----	----	26.8	26.0	26.0	26.3	26.4	26.7
3	Total Dissolved Solid (mg/L)	500.00	2000.00	123.4	123.8	123.1	123.4	125.9	123.2
4	Turbidity, (NTU)	1.00	5.00	1.37	1.57	2.55	2.85	2.62	2.89
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.45	0.35	0.2	0.35	0.2	0.25
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results :									
7	Total Hardness, (mg/L)	200.00	600.00	105.56	109.62	105.56	105.56	109.62	105.56
8	Total Alkalinity, (mg/L)	200.00	600.00	96.48	104.52	96.48	96.48	104.52	96.48
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	16.97	18.85	16.97	16.97	18.85	16.97
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
NTKD-I, P.H.E. Dte.

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

Sd/-
Executive Engineer
NTKD -I P.H.E. Dte.

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

TEST REPORT: AA – I, ZONE – X

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

Date of Testing: 30.07.2020

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	7.26	7.26	7.36
2	Temperature(degree C)	----	----	26.4	26.4	26.5
3	Total Dissolved Solid(mg/L)	500.00	2000.00	123.9	122.2	122.8
4	Turbidity, (NTU)	1.00	5.00	1.05	1.48	1.05
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.1	0.2	0.1
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:						
7	Total Hardness, (mg/L)	200.00	600.00	113.68	113.68	109.62
8	Total Alkalinity, (mg/L)	200.00	600.00	88.44	88.44	88.44
9	Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250.00	1000.00	16.97	16.97	16.97
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/-
Chemist & Bacteriologist
NTKD - I P.H.E. Dte.

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

Sd/-
Executive Engineer
NTKD - I P.H.E. Dte.

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

TEST REPORT: AA – I, ZONE – IX

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

Date of Testing: 30.07.2020

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.	Rishi Tower	DAWAT RESTAURANT
A. Physico-chemical Test Results:							
1	pH Value.	6.5-8.5	6.5-8.5	7.36	7.26	7.35	7.30
2	Temperature(degree C)	----	----	26.6	26.3	26.4	26.6
3	Total Dissolved Solid. (mg/L)	500.00	2000.00	123.3	122.1	106.6	124.0
4	Turbidity, (NTU)	1.00	5.00	1.32	1.77	1.71	1.96
5	Residual Free Chlorine(mg/L)	0.20	1.00	0.15	0.25	0.15	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:							
7	Total Hardness, (mg/L)	200.00	600.00	109.62	105.56	101.5	109.62
8	Total Alkalinity, (mg/L)	200.00	600.00	92.46	88.44	88.44	92.46
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	16.97	15.08	15.08	16.97
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/-
Chemist & Bacteriologist
NTKD - I P.H.E. Dte.

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

Sd/-
Executive Engineer
NTKD - I P.H.E. Dte.

ACTION AREA – II
(JULY' 2020)

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

TEST REPORT: AA – II C, ZONE – I

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

Date of Testing: 15.07.2020

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)						
				AA – IIC, ZONE - I						
				INLET OF O.H.R.	OUTLET OF O.H.R.	AKANKHA	NKDA Mkt	STARLIT COMPLEX	HILAND WOODS	MOON BEAM
A. Physico-chemical Test Results:										
1	pH Value.	6.5-8.5	6.5-8.5	7.28	7.24	7.27	7.30	7.30	7.31	7.32
7.732	Temperature (degree C)	----	----	26.6	26.8	26.8	26.8	26.8	26.8	26.8
23.13	Total Dissolved Solid (mg/L)	500.00	2000.00	125.2	125.4	125.8	125.3	125.5	125.2	124.9
4	Turbidity (NTU)	1.00	5.00	1.42	1.24	1.40	1.62	1.51	1.67	1.54
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.1	0.4	0.15	0.4	0.25	0.1	0.35
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:										
7	Total Hardness (mg/L)	200.00	600.00	113.68	113.68	113.68	113.68	113.68	113.68	113.68
8	Total Alkalinity (mg/L)	200.00	600.00	88.44	88.44	88.44	88.44	88.44	88.44	88.44

O.H.R. – OVER HEAD RESERVOIR

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

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

Sd/-
Executive Engineer
NTKD - I P.H.E. Dte.

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 – IID, ZONE – V

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

Date of Testing: 15.07.2020

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)			
				AA – IID, ZONE - V			
				INLET OF O.H.R.	OUTLET OF O.H.R.	ALATIKA	GREEN WOOD SONATA
A. Physico-chemical Test Results:							
1	pH Value.	6.5-8.5	6.5-8.5	7.24	7.30	7.29	7.28
72	Temperature (degree C)	----	----	26.8	26.9	26.9	26.8
3	Total Dissolved Solid (mg/L)	500.00	2000.00	124.3	124.3	124.4	124.2
4	Turbidity (NTU)	1.00	5.00	2.43	2.58	2.46	2.55
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.1	0.4	0.3	0.25
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:							
7	Total Hardness (mg/L)	200.00	600.00	113.68	113.68	113.68	113.68
8	Total Alkalinity (mg/L)	200.00	600.00	84.42	84.42	84.42	84.42

O.H.R. – OVER HEAD RESERVOIR,

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

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

Sd/-
 Executive Engineer
 NTKD - I P.H.E. Dte.

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 – IID, ZONE – VI

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

Date of Testing: 15.07.2020

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)			
				AA – IID, ZONE - VI			
				INLET OF O.H.R.	OUTLET OF O.H.R.	SHRACHI GREEN WOOD ELEMENT	GREEN FIELD AMBITION
A. Physico-chemical Test Results:							
1	pH Value.	6.5-8.5	6.5-8.5	6.69	7.25	7.20	7.22
2	Temperature (degree C)	----	----	26.9	26.4	26.6	26.8
3	Total Dissolved Solid (mg/L)	500.00	2000.00	128.9	124.5	125.2	124.9
4	Turbidity (NTU)	1.00	5.00	2.20	1.81	2.33	1.37
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.9	0.3	0.25	0.25
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:							
7	Total Hardness (mg/L)	200.00	600.00	113.68	113.68	113.68	113.68
8	Total Alkalinity (mg/L)	200.00	600.00	88.44	88.44	88.44	84.42

O.H.R. – OVER HEAD RESERVOIR

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

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

Sd/-
Executive Engineer
NTKD - I P.H.E. Dte.

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: 17.07.2020

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	7.37	7.34	7.49
2	Temperature (degree C)	----	----	26.8	26.6	26.6
3	Total Dissolved Solid (mg/L)	500.00	2000.00	124.8	124.0	123.5
4	Turbidity (NTU)	1.00	5.00	4.41	4.52	4.81
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.1	0.2	0.1
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:						
7	Total Hardness (mg/L)	200.00	600.00	109.62	109.62	109.62
8	Total Alkalinity (mg/L)	200.00	600.00	88.44	88.44	88.44

O.H.R. – OVER HEAD RESERVOIR,

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

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

Sd/-
Executive Engineer
NTKD - I P.H.E. Dte.

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 B, ZONE – IV

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

Date of Testing: 17.07.2020

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)	Permissible Limit in the absence of alternate Source (IS 10500-2012)	SOURCE (PHE SUPPLY)						
				AA – IIB, ZONE - IV						
				INLET OF O.H.R.	OUTLET OF O.H.R.	HILAND WILLOWS	ANAHITA	MALANCHA	NKDA MARKET	ECO URBAN VILLAGE
A. Physico-chemical Test Results:										
1	pH Value.	6.5-8.5	6.5-8.5	7.63	7.66	7.36	7.38	7.46	7.25	7.17
2	Temperature (degree C)	----	----	26.8	26.7	26.3	26.3	26.3	26.0	26.8
3	Total Dissolved Solid (mg/L)	500.00	2000.00	124.4	124.6	126.3	125.8	125.8	124.9	125.7
4	Turbidity (NTU)	1.00	5.00	2.62	2.89	2.46	2.78	2.51	2.09	2.84
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.1	0.4	0.8	0.7	0.6	0.7	0.9
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:										
7	Total Hardness (mg/L)	200.00	600.00	109.62	109.62	109.62	109.62	109.62	109.62	105.56
8	Total Alkalinity (mg/L)	200.00	600.00	88.44	88.44	88.44	88.44	88.44	88.44	88.44

O.H.R. – OVER HEAD RESERVOIR ,

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

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

Sd/-
Executive Engineer
NTKD - I P.H.E. Dte.

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 B, ZONE – IV

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

Date of Testing: 24.07.2020

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	ANAHITA	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	7.06	7.25	7.12	7.10	7.11	7.14	7.05
2	Temperature (degree C)	----	----	26.5	26.0	26.5	26.7	26.9	26.9	26.7
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	122.8	123.1	123.9	122.4	122.2	122.5	123.2
4	Turbidity (NTU)	1/1	5/10	1.83	2.61	2.13	1.80	1.71	1.77	1.80
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/1.0	0.1	0.1	0.5	0.65	0.5	0.45	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	101.5	105.56	105.56	101.5	101.5	101.5	105.56
8	Total Alkalinity (mg/L)	200/200	600/600	88.44	88.44	88.44	88.44	88.44	88.44	88.44
9	Iron(as Fe), mg/L	1.0/0.1	1.0/1.0	0.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250/200	1000/1000	16.97	16.97	16.97	16.97	16.97	16.97	16.97
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/-
Chemist & Bacteriologist
NTKD - I P.H.E. Dte.

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

Sd/-
Executive Engineer
NTKD - I P.H.E. Dte.

**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: 24.07.2020

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 PHE SUPPLY BESIDE PUMP ROOM
A. Physico-chemical Test Results:						
1	pH Value.	6.5-8.5	6.5-8.5	7.15	7.20	7.27
2	Temperature (degree C)	----	----	26.6	26.5	26.0
3	Total Dissolved Solid (mg/L)	500.00	2000.00	123.5	122.1	122.9
4	Turbidity (NTU)	1.00	5.00	1.75	1.25	1.50
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.55	0.3	0.25
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:						
7	Total Hardness (mg/L)	200.00	600.00	109.62	109.62	109.62
8	Total Alkalinity (mg/L)	200.00	600.00	88.44	80.4	88.44
9	Chloride (mg/L)	250.00	1000.00	16.97	16.97	18.85
10	Iron(mg/L)	1.0	No Relaxation	<0.1	<0.1	<0.1
C. Bacteriological Test Results:						
11	Total Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF
12	Fecal Coliform (CFU/100 ml)	Absent	Absent	NF	NF	NF

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

Sd/-
Chemist & Bacteriologist
NTKD - I P.H.E. Dte.

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

Sd/-
Executive Engineer
NTKD - I P.H.E. Dte.

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: 30.07.2020

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	7.32	7.34	7.35
2	Temperature (degree C)	----	----	26.6	26.5	26.3
3	Total Dissolved Solid (mg/L)	500.00	2000.00	121.7	120.2	121.4
4	Turbidity (NTU)	1.00	5.00	1.78	1.41	1.59
5	Residual Free Chlorine (mg/L)	0.20	1.00	0.15	0.25	0.2
6	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
B. Chemical Test Results:						
7	Total Hardness (mg/L)	200.00	600.00	105.56	105.56	101.5
8	Total Alkalinity (mg/L)	200.00	600.00	92.46	92.46	84.42
9	Iron(as Fe), mg/L	1.0	No Relaxation	<0.1	<0.1	<0.1
10	Chloride (mg/L)	250.00	1000.00	16.97	16.97	15.08
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/-
Chemist & Bacteriologist
NTKD - I P.H.E. Dte.

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

Sd/-
Executive Engineer
NTKD - I P.H.E. Dte.

