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 FEBRUARY' 2022

ACTION AREA – I (FEBRUARY' 2022)

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: 01.02.2022

| Sl. No | Characteristic | Requirement (Acceptable Limit) | Permissible Limit in the absence of alternate | | | | (PHE SUPPLY) ONE - VI | | |
|-----------|-------------------------------|--------------------------------|---|--------------------|---------------------|-----------|--------------------------|--|-----------|
| | | (IS 10500- 2012) | Source (IS 10500-2012) | INLET OF O.H.R. | OUTLET OF O.H.R. | NBCC | CE /1/A/97 | CE -74 | CE-104 |
| | A. Physico - chemical | Test Results: | | | | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.97 | 7.94 | 7.95 | 7.96 | 7.97 | 7.98 |
| 2 | Temperature(degree C) | | | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 189.6 | 190.4 | 190.8 | 190.2 | 191.1 | 190.4 |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.97 | 1.81 | 1.66 | 1.89 | 1.83 | 1.78 |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.4 | 0.6 | 0.4 | 0.5 | 0.35 | 0.25 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| | B. Chemical Test Resul | ts: | | | <u> </u> | | | <u> l </u> | |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 168.63 | 168.63 | 168.63 | 164.71 | 168.63 | 168.63 |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 157.32 | 157.32 | 157.32 | 157.32 | 161.46 | 161.46 |

O.H.R. - OVER HEAD RESERVOIR,

Sd/-Chemist NTKD - I P.H.E. Dte. Sd/-Assistant 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.1

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: 01.02.2022

| Sl. No | Characteristic | Requirement (Acceptable | Permissible Limit in the absence of | | | SOURCE | E (PHE SUPPLY) | | | |
|-----------|-------------------------------|-------------------------|-------------------------------------|--------------------|--------------------|-----------|----------------|-----------|-----------|-----------|
| | | Limit) | alternate Source | | | Z | ONE - III | | | |
| | | (IS 10500-2012) | (IS 10500-2012) | INLET OF O.H.R. | OUTLET OF O.H.R | A1/1/C/28 | NKDA Off. | AL/1/C/40 | AI/153/18 | AI-68 |
| | A. Physico-chemic | al Test Results: | | | | 1 | | | | • |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.82 | 7.85 | 7.87 | 7.86 | 7.87 | 7.89 | 7.91 |
| 2 | Temperature(degree C) | | | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 189.0 | 190.0 | 190.4 | 190.7 | 190.5 | 191.0 | 190.3 |
| 4 | Turbidity, (NTU) | 1.00 | 5.00 | 1.81 | 1.67 | 1.77 | 1.69 | 1.89 | 1.84 | 1.83 |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.5 | 0.6 | 0.35 | 0.5 | 0.2 | 0.45 | 0.4 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| | B. Chemical Test | Results: | • | | | | | | | |
| 7 | Total Hardness, (mg/L) | 200.00 | 600.00 | 164.71 | 168.63 | 168.63 | 168.63 | 168.63 | 172.55 | 164.71 |
| 8 | Total Alkalinity, (mg/L) | 200.00 | 600.00 | 157.32 | 161.46 | 161.46 | 161.46 | 161.46 | 161.46 | 157.32 |

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

Sd/-Chemist NTKD-I, P.H.E. Dte. Sd/-Assistant 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: ACTION AREA - I, ZONE - V

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

| Sl. | Characteristic | Requirement | Permissible Limit | | | | SOURCE (PH | HE SUPPLY) | | | |
|------|-------------------------------|--------------------|------------------------------------|--------------------|---------------------|-----------|------------|------------|-----------|-----------|-----------|
| No | | (Acceptable Limit) | in the absence of alternate Source | | | | ZONI | E - V | | | |
| | | (IS 10500-2012) | (IS 10500-2012) | INLET OF O.H.R. | OUTLET OF O.H.R. | CC-201 | CD - 125 | CA-81 | CB-08 | CA-56 | CB-179 |
| | A. Physico - chemical Test | Results: | | | | | | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.78 | 7.79 | 7.81 | 7.85 | 7.86 | 7.89 | 7.91 | 7.92 |
| 2 | Temperature(degree C) | | | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 187.8 | 188.0 | 188.5 | 188.2 | 188.7 | 188.9 | 188.9 | 188.1 |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.85 | 1.75 | 1.91 | 1.95 | 1.98 | 1.99 | 1.97 | 1.98 |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.3 | 0.5 | 0.2 | 0.25 | 0.35 | 0.3 | 0.2 | 0.4 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| В. С | Chemical Test Results: | | | | • | | | • | • | • | |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 160.79 | 164.71 | 164.71 | 164.71 | 164.71 | 164.71 | 164.71 | 168.63 |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 153.18 | 157.32 | 157.32 | 157.32 | 153.18 | 153.18 | 153.18 | 153.18 |
| 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 | <0.1 |
| 10 | Chloride (mg/L) | 250/200 | 1000/1000 | 19.00 | 20.90 | 20.90 | 20.90 | 20.90 | 19.00 | 19.00 | 19.00 |
| C .B | acteriological Test Results : | | · · · | | | | | | | | |
| 11 | Total Coliform (CFU/100 ml) | Absent/Absent | Absent/Absent | NF | NF | NF | NF | NF | NF | NF | NF |
| 12 | Fecal Coliform (CFU/100 ml) | Absent/Absent | Absent/Absent | NF | NF | NF | NF | NF | NF | NF | NF |

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.

Date of Testing: 02.02.2022

GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERING OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I

ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: ACTION AREA -I, ZONE - IV

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

| Characteristic | Requirement (Acceptable Limit) | Permissible Limit in the absence of | the absence of | | | | | | | | |
|-------------------------------|---|--|---|---|---|--|-----------------------------------|-----------------------------------|------------------------------------|--|--|
| | (IS 10500-2012) | alternate Source | | | | ZONE - IV | | | | | |
| | | , , , , , | INLET OF O.H.R. | OUTLET OF O.H.R. | SENIOR CITIZEN PARK | BE-17 | BB-50 | BC-105 | BF-93 | | |
| hysico-chemical Test Results: | | | • | | | | • | | | | |
| pH Value. | 6.5-8.5 | 6.5-8.5 | 7.94 | 7.95 | 7.97 | 7.98 | 7.97 | 7.98 | 7.96 | | |
| Temperature(degree C) | | | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | | |
| Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 188.1 | 188.3 | 188.9 | 189.1 | 188.7 | 188.8 | 189.4 | | |
| Turbidity (NTU) | 1.00 | 5.00 | 1.59 | 1.71 | 1.97 | 1.98 | 1.97 | 1.98 | 1.97 | | |
| Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.35 | 0.5 | 0.4 | 0.15 | 0.35 | 0.25 | 0.3 | | |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | | |
| Chemical Test Results: | | | | | | | | | | | |
| Total Hardness (mg/L) | 200.00 | 600.00 | 168.63 | 164.71 | 168.63 | 164.71 | 164.71 | 168.63 | 164.71 | | |
| Total Alkalinity (mg/L) | 200.00 | 600.00 | 149.04 | 153.18 | 149.04 | 149.04 | 153.18 | 153.18 | 149.04 | | |
| Iron(as Fe), mg/L | 1.0 | No Relaxation | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | |
| Chloride (mg/L) | 250.00 | 1000.00 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | | |
| acteriological Test Results : | | | • | | | • | • | | | | |
| Total Coliform (CFU/100 ml) | Absent | Absent | NF | NF | NF | NF | NF | NF | NF | | |
| Fecal Coliform (CFU/100 ml) | Absent | Absent | NF | NF | NF | NF | NF | NF | NF | | |
| | nysico-chemical Test Results: pH Value. Temperature(degree C) Total Dissolved Solid (mg/L) Turbidity (NTU) Residual Free Chlorine (mg/L) Odour Chemical 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) | nysico-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 Chemical Test Results: Total Hardness (mg/L) Total Alkalinity (mg/L) Chloride (mg/L) Acteriological Test Results: Total Coliform (CFU/100 ml) Absent | (Acceptable Limit) (IS 10500-2012) in the absence of alternate Source (IS 10500-2012) | Acceptable Limit (IS 10500-2012) in the absence of alternate Source (IS 10500-2012) INLET OF O.H.R. | Acceptable Limit (IS 10500-2012) in the absence of alternate Source (IS 10500-2012) INLET OF O.H.R. | Checaptable Limit (1S 10500-2012) in the absence of alternate Source (1S 10500-2012) | Cacceptable Limit (IS 10500-2012) | Cacceptable Limit (IS 10500-2012) | Cacceptable Limit (IS 10500-2012) | | |

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.

Date of Testing: 02.02.2022

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)

Permissible Limit **SOURCE (PHE SUPPLY)** SI. Characteristic Requirement (Acceptable Limit) No in the absence of **ZONE - VII** (IS 10500-2012) alternate Source (IS 10500-2012) INLET OUTLET DC-58 HIDCO ADMIN DC-159 **DF - 94** DC-250 OF O.H.R. OF O.H.R. BUILDING A. Physico-chemical Test Results: pH Value. 1 7.97 7.96 7.98 7.97 7.96 7.94 7.95 6.5-8.5 6.5-8.5 2 **Temperature**(degree C) 23.2 23.2 23.2 23.2 23.2 23.2 23.2 ----3 **Total Dissolved Solid.** 186.6 186.7 186.8 190.6 186.7 186.5 186.6 500.00 2000.00 4 Turbidity, (NTU) 1.45 1.97 1.33 1.19 1.44 1.64 1.76 1.00 5.00 5 **Residual Free Chlorine** 0.35 0.5 0.4 0.1 0.3 0.4 0.35 0.20 1.00 Odour Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable **B.** Chemical Test Results: Total Hardness, (mg/L) 168.62 168.62 168.62 168.62 164.71 164.71 164.71 600.00 200.00 8 Total Alkalinity, (mg/L) 153.18 153.18 153.18 153.18 153.18 153.18 153.18 200.00 600.00 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 Chloride (mg/L) 250/200 1000/1000 20.90 20.90 20.90 20.90 20.90 20.90 20.90 C .Bacteriological Test Results : 11 Total Coliform (CFU/100 ml) Absent/Absent Absent/Absent NF NF NF NF NF NF NF Fecal Coliform (CFU/100 ml) 12 Absent/Absent Absent/Absent NF NF NF NF NF NF NF

O.H.R. - OVER HEAD RESERVOIR,

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.

Date of Testing: 07.02.2022

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

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

Date of Testing: 07.02.2022

| 7.96 | DA-88 7.95 | DB-222 | - VIII DA-136 | ZONE DC-23 | DA-30 | I | | Limit | (Acceptable | | No |
|---------------|---------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------------------------------|-------------------------|---|-------------|
| 7.96 | 7.95 | DB-222 | DA-136 | DC-23 | DA-30 | 1 | | | ` • | | 110 |
| 7.96 | 7.95 | DB-222 | DA-136 | DC-23 | DA-30 | | | in the absence | Limit) | | |
| 23.2 | | | | | | OUTLET OF | INLET OF | of alternate | (IS 10500- | | |
| 23.2 | | | | | | O.H.R. | O.H.R. | Source | 2012) | | |
| 23.2 | | | | | | | | (IS 10500-2012) | | | |
| 23.2 | | | | | | | | | | ysico-chemical Test Results: | A. Ph |
| | | 7.98 | 7.97 | 7.96 | 7.98 | 7.97 | 7.95 | 6.5-8.5 | 6.5-8.5 | pH Value. | 1 |
| 186.6 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 | | | Temperature(degree C) | 2 |
| 100.0 | 186.4 | 186.6 | 187.0 | 186.8 | 186.7 | 187.1 | 188.9 | 2000.00 | 500.00 | Total Dissolved Solid. | 3 |
| 1.10 | 1.81 | 1.71 | 1.96 | 1.97 | 1.95 | 1.15 | 1.89 | 5.00 | 1.00 | Turbidity (NTU) | 4 |
| 0.3 | 0.25 | 0.3 | 0.1 | 0.25 | 0.2 | 0.35 | 0.4 | 1.00 | 0.20 | Residual Free Chlorine | 5 |
| ble Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Odour | 6 |
| · | | | | | | | | | | hemical Test Results: | B. Cl |
| 1 164.71 | 164.71 | 164.71 | 168.63 | 168.63 | 164.71 | 164.71 | 164.71 | 600.00 | 200.00 | Total Hardness. (mg/L) | 7 |
| 8 153.18 | 153.18 | 153.18 | 153.18 | 153.18 | 153.18 | 153.18 | 153.18 | 600.00 | 200.00 | Total Alkalinity. (mg/L) | 8 |
| <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | No Relaxation | 1.0 | Iron(as Fe), mg/L | 9 |
| 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 1000.00 | 250.00 | Chloride (mg/L) | 10 |
| • | | | | | | | | | • | acteriological Test Results : | C .Ba |
| | NF | NF | NF | NF | NF | NF | NF | Absent | Absent | Total Coliform (CFU/100 ml) | 11 |
| NF | NF | NF | NF | NF | NF | NF | NF | Absent | Absent | Fecal Coliform (CFU/100 ml) | 12 |
| <0.1 | 2 | <0.1 20.90 NF | <0.1 20.90 NF | <0.1 20.90 NF | <0.1 20.90 NF | <0.1 20.90 NF | <0.1 20.90 NF | No Relaxation 1000.00 Absent | 1.0 250.00 Absent | Chloride (mg/L) acteriological Test Results : Total Coliform (CFU/100 ml) | 10 C .Ba |

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.

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: 10.02.2022

| Sl. | Characteristic | Requirement | Permissible | | | SOURCE (PH | E SUPPLY) | | |
|-----|-------------------------------|--------------------|---|--------------------|---------------------|------------|------------|-----------|-----------|
| No | | (Acceptable Limit) | Limit in the absence | | | ZONE | - VI | | |
| | | (IS 10500-2012) | of alternate Source (IS 10500-2012) | INLET OF O.H.R. | OUTLET OF O.H.R. | NBCC | CE /1/A/97 | CE -74 | CE/183 |
| | A. Physico - chemical T | Test Results: | | | | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.98 | 7.97 | 7.98 | 7.97 | 7.98 | 7.96 |
| 2 | Temperature(degree C) | | | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 184.2 | 184.3 | 184.5 | 184.9 | 184.4 | 184.8 |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.95 | 1.97 | 1.98 | 1.91 | 1.96 | 1.79 |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.35 | 0.6 | 0.4 | 0.3 | 0.35 | 0.45 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| | B. Chemical Test Resul | ts: | | | | | | | |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 168.63 | 168.63 | 168.63 | 172.55 | 172.55 | 168.63 |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 157.32 | 157.32 | 157.32 | 157.32 | 157.32 | 157.32 |

O.H.R. - OVER HEAD RESERVOIR,

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

Sd/-Assistant Engineer 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) **Date of Testing: 10.02.2022**

| Sl. No | Characteristic | Requirement (Acceptable | Permissible Limit in the absence of | | | SOURCE | (PHE SUPPLY) | | | |
|-----------|-------------------------------|-------------------------|-------------------------------------|-----------------|-----------------|------------|--------------|-----------|-----------|-----------|
| | | Limit) | alternate Source | | | ZO | NE - III | | | |
| | | (IS 10500-2012) | (IS 10500-2012) | INLET OF O.H.R. | OUTLET OF O.H.R | AL/1/C/028 | NKDA Off. | AL/1/C/40 | AI/153/18 | AL/18 |
| | A. Physico-chemi | cal Test Results: | | • | | | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.97 | 7.98 | 7.95 | 7.97 | 7.98 | 7.96 | 7.97 |
| 2 | Temperature(degree C) | | | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 184 | 184.8 | 185.4 | 185.2 | 185.6 | 185.1 | 185.7 |
| 4 | Turbidity, (NTU) | 1.00 | 5.00 | 1.91 | 1.93 | 1.95 | 1.88 | 1.89 | 1.78 | 1.82 |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.7 | 0.65 | 0.4 | 0.45 | 0.3 | 0.5 | 0.4 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| | B. Chemical Test | Results: | | | , | • | 1 | 1 | 1 | |
| 7 | Total Hardness, (mg/L) | 200.00 | 600.00 | 168.63 | 164.71 | 168.63 | 168.63 | 168.63 | 164.71 | 164.71 |
| 8 | Total Alkalinity, (mg/L) | 200.00 | 600.00 | 157.32 | 157.32 | 157.32 | 157.32 | 157.32 | 157.32 | 157.32 |

O.H.R. - OVER HEAD RESERVOIR, ,

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

Sd/-**Assistant Engineer** 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 - X

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

Date of Testing: 15.02.2022

| Sl. | Characteristic | Requirement | Permissible Limit | | SOURCE (I | PHE SUPPLY) | |
|--------|------------------------------|---------------------------------------|------------------------------------|-----------------|------------------|------------------|--|
| No | | (Acceptable Limit) (IS 10500-2012) | in the absence of alternate Source | | ZO | NE - X | |
| | | | (IS 10500-2012) | INLET OF O.H.R. | OUTLET OF O.H.R. | GREEN FIELD – 4D | NATIONAL CANCER INSTITUTE CHITTARANJAN |
| A. Phy | vsico-chemical Test Results: | | | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.51 | 7.34 | 7.39 | 7.52 |
| 2 | Temperature(degree C) | | | 23.1 | 23.2 | 23.2 | 23.2 |
| 3 | Total Dissolved Solid(mg/L) | 500.00 | 2000.00 | 191.3 | 191.2 | 190.5 | 190.2 |
| 4 | Turbidity, (NTU) | 1.00 | 5.00 | 1.16 | 1.31 | 1.59 | 1.12 |
| 5 | Residual Free Chlorine(mg/L) | 0.20 | 1.00 | 0.3 | 0.45 | 0.3 | 0.35 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| B. Ch | emical Test Results: | | • | | | | |
| 7 | Total Hardness, (mg/L) | 200.00 | 600.00 | 168.40 | 168.40 | 168.40 | 168.40 |
| 8 | Total Alkalinity, (mg/L) | 200.00 | 600.00 | 150.96 | 150.96 | 150.96 | 150.96 |
| 9 | Iron(as Fe), mg/L | 1.0/0.1 | 1.0/1.0 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 | Chloride (mg/L) | 250/200 | 1000/1000 | 22.46 | 20.58 | 22.46 | 20.58 |
| C .Bac | eteriological Test Results : | | I | | <u> </u> | I | <u> </u> |
| 11 | Total Coliform (CFU/100 ml) | Absent/Absent | Absent/Absent | NF | NF | NF | NF |
| 12 | Fecal Coliform (CFU/100 ml) | Absent/Absent | Absent/Absent | NF | NF | NF | NF |

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.

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)

| Sl. | | Requirement | Permissible Limit | | SOURCE | (PHE SUPPLY) | |
|------|-------------------------------|---------------------------------------|---------------------------------------|-----------------|------------------|--------------|------------------|
| No | Characteristic | (Acceptable Limit) (IS 10500-2012) | in the absence of alternate Source | | ZO | ONE - IX | |
| | | | (IS 10500-2012) | INLET OF O.H.R. | OUTLET OF O.H.R. | RISHI TOWER | DAWAT RESTAURANT |
| A. P | hysico-chemical Test Results: | | | - | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.53 | 7.54 | 7.56 | 7.58 |
| 2 | Temperature(degree C) | | | 23.2 | 23.2 | 23.2 | 23.2 |
| 3 | Total Dissolved Solid. (mg/L) | 500.00 | 2000.00 | 190.1 | 190.6 | 190.0 | 190.3 |
| 4 | Turbidity, (NTU) | 1.00 | 5.00 | 1.31 | 1.25 | 1.28 | 1.29 |
| 5 | Residual Free Chlorine(mg/L) | 0.20 | 1.00 | 0.4 | 0.5 | 0.3 | 0.4 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| В. (| Chemical Test Results: | | | | | | 1 |
| 7 | Total Hardness, (mg/L) | 200.00 | 600.00 | 168.40 | 168.40 | 168.40 | 168.40 |
| 8 | Total Alkalinity, (mg/L) | 200.00 | 600.00 | 150.96 | 150.96 | 150.96 | 150.96 |
| 9 | Iron(as Fe), mg/L | 1.0/0.1 | 1.0/1.0 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 | Chloride (mg/L) | 250/200 | 1000/1000 | 22.46 | 22.46 | 22.46 | 22.46 |
| С .В | acteriological Test Results : | | | 1 | 1 | | 1 |
| 11 | Total Coliform (CFU/100 ml) | Absent/Absent | Absent/Absent | NF | NF | NF | NF |
| 12 | Fecal Coliform (CFU/100 ml) | Absent/Absent | Absent/Absent | NF | NF | NF | NF |

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.

Date of Testing: 15.02.2022

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) (IS 10500- 2012) | Permissible Limit in the absence of alternate Source (IS 10500-2012) | | | | | (PHE SUPPLY | ") | | |
|-----------|-------------------------------|---|---|--------------------|---------------------|-----------|-----------|-------------|-----------|-----------|-----------|
| | | | | INLET OF O.H.R. | OUTLET OF O.H.R. | CC-201 | CD - 125 | CA- 81 | CB-162 | CA-117 | CB-180 |
| | A. Physico - chemical Test | Results: | | | | | | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.57 | 7.59 | 7.61 | 7.65 | 7.68 | 7.69 | 7.70 | 7.71 |
| 2 | Temperature(degree C) | | | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 188.1 | 188.1 | 188.9 | 188.1 | 188.4 | 188.1 | 188.6 | 188.5 |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.47 | 1.44 | 1.57 | 1.40 | 1.97 | 1.64 | 1.40 | 1.75 |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.35 | 0.55 | 0.2 | 0.25 | 0.45 | 0.4 | 0.3 | 0.35 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| В. (| Chemical Test Results: | | | | | | | | | | |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 160.57 | 160.57 | 164.49 | 160.57 | 160.57 | 160.57 | 160.57 | 164.49 |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 155.04 | 155.04 | 159.12 | 155.04 | 155.04 | 155.04 | 155.04 | 155.04 |

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.

Date of Testing: 16.02.2022

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

TEST REPORT: ACTION AREA -I, ZONE - IV

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

| SI. No | Characteristic | Requirement (Acceptable Limit) (IS 10500-2012) | Permissible Limit in the absence of alternate | INLET OF | OUTLET OF | | E (PHE SUPP ONE - IV BE-17 | LY) BF-79 | BC-105 | BF-58 |
|-----------|-------------------------------|---|---|-----------|-----------|--------------|----------------------------------|--------------|-----------|-----------|
| | | | Source (IS 10500-2012) | O.H.R. | O.H.R. | CITIZEN PARK | DE-1/ | BF-79 | BC-105 | DF-30 |
| A. P | hysico-chemical Test Results | 3: | | | | | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.73 | 7.75 | 7.76 | 7.79 | 7.81 | 7.82 | 7.82 |
| 2 | Temperature(degree C) | | | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 188.2 | 188.2 | 188.7 | 188.2 | 188.3 | 188.4 | 188.9 |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.73 | 1.81 | 1.90 | 1.68 | 1.45 | 1.51 | 1.57 |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.4 | 0.5 | 0.4 | 0.2 | 0.3 | 0.4 | 0.25 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| В. (| Chemical Test Results: | l | I | | ı | | | ı | | l |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 164.49 | 164.49 | 164.49 | 164.49 | 164.49 | 160.57 | 164.49 |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 155.04 | 155.04 | 155.04 | 155.04 | 155.04 | 155.04 | 159.12 |

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.

Date of Testing: 16.02.2022

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 & Bacteriological) **Date of Testing: 17.02.2022**

| Sl. No | Characteristic | Requirement (Acceptable | Permissible Limit in the absence of | of | | | | | | | |
|-----------|-------------------------------|-------------------------|-------------------------------------|-----------------|------------------|-----------|-----------|-----------|-----------|--|--|
| | | Limit) (IS 10500-2012) | alternate Source | | | ZONE - | I | | | | |
| | | (15 10500-2012) | (IS 10500-2012) | INLET OF O.H.R. | OUTLET OF O.H.R. | AD - 17 | AA- 05 | AC-10 | AC - 50 | | |
| A. P | hysico-chemical Test Results: | | | <u> </u> | | | <u>l</u> | l | l | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.69 | 7.71 | 7.73 | 7.74 | 7.75 | 7.73 | | |
| 2 | Temperature (degree C) | | | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | | |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 187.2 | 187.6 | 188.2 | 188.3 | 188.5 | 188.4 | | |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.77 | 1.61 | 1.64 | 1.52 | 1.73 | 1.24 | | |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.4 | 0.45 | 0.35 | 0.3 | 0.25 | 0.4 | | |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | | |
| В. (| Chemical Test Results: | | 1 | | | | | | | | |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 168.41 | 164.49 | 168.41 | 168.41 | 168.41 | 168.41 | | |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 155.04 | 155.04 | 155.04 | 155.04 | 155.04 | 155.04 | | |
| 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 | 20.58 | 20.58 | 20.58 | 20.58 | 20.58 | 20.58 | | |
| C.B | acteriological Test Results : | • | • | ı | <u> </u> | | ı | | ı | | |
| 11 | Total Coliform (CFU/100 ml) | Absent | Absent | NF | NF | NF | NF | NF | NF | | |
| 12 | Fecal Coliform (CFU/100 ml) | Absent | Absent | NF | NF | NF | NF | NF | NF | | |

O.H.R. - OVER HEAD RESERVOIR,

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

Sd/-**Assistant 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: <u>ACTION AREA -I, ZONE - II</u>

Sub.: Water Testing (Physico-chemical & Chemical & Bacteriological) **Date of Testing: 17.02.2022**

| Sl. No | Characteristic | Requirement (Acceptable | Permissible Limit in the absence of | | | SOURC | E (PHE SUPPL) | Y) | | |
|-----------|-------------------------------|-------------------------|-------------------------------------|--------------------|---------------------|-------------------------|---------------|------------|-----------|-----------|
| | | Limit) | alternate Source | | | | ZONE - II | | | |
| | | (IS 10500-2012) | (IS 10500-2012) | INLET OF O.H.R. | OUTLET OF O.H.R. | NEWTOWN BUS TERMINUS | BA - 120 | AB-72 | AB-13 | AE-109 |
| A. Ph | ysico-chemical Test Results: | | | | 1 | | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.47 | 7.51 | 7.53 | 7.57 | 7.59 | 7.61 | 7.63 |
| 2 | Temperature(degree C) | | | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 188.0 | 188.4 | 189.3 | 188.4 | 188.7 | 188.7 | 188.4 |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.30 | 1.40 | 1.62 | 1.38 | 1.20 | 1.25 | 1.90 |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.35 | 0.45 | 0.35 | 0.2 | 0.4 | 0.3 | 0.35 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| В. С | hemical Test Results: | | | | | | | | | |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 164.49 | 168.41 | 168.41 | 168.41 | 168.41 | 168.41 | 164.49 |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 155.04 | 155.04 | 155.04 | 155.04 | 155.04 | 155.04 | 155.04 |
| 9 | Iron(as Fe), mg/L | 1.0 | No Relaxation | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 10 | Chloride (mg/L) | 250.00 | 1000.00 | 20.58 | 20.58 | 20.58 | 20.58 | 20.58 | 20.58 | 20.58 |
| C .Ba | cteriological Test Results : | | | | | | | | | |
| 11 | Total Coliform (CFU/100 ml) | Absent | Absent | NF | NF | NF | NF | NF | NF | NF |
| 12 | Fecal Coliform (CFU/100 ml) | Absent | Absent | NF | NF | NF | NF | NF | NF | NF |

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.

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)

| Sl. No | Characteristic | Requirement | Permissible Limit in the absence of | | | SOURCI | E (PHE SUPPI | LY) | | |
|-----------|-------------------------------|---------------------------------------|-------------------------------------|--------------------|---------------------|-----------|--------------|-----------|-----------|-----------|
| 110 | | (Acceptable Limit) (IS 10500-2012) | alternate Source | | | 7 | ZONE - I | | | |
| | | | (IS 10500-2012) | INLET OF O.H.R. | OUTLET OF O.H.R. | AD - 17 | AA- 05 | AC - 107 | AC - 55 | AC-17 |
| A. I | Physico-chemical Test Result | ts: | <u> </u> | | | | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.90 | 7.92 | 7.95 | 7.97 | 7.98 | 7.89 | 7.95 |
| 2 | Temperature(degree C) | | | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 184.0 | 184.7 | 184.8 | 184.8 | 199.1 | 200.0 | 185.3 |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.85 | 1.28 | 1.16 | 1.89 | 1.07 | 1.54 | 1.26 |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.4 | 0.5 | 0.3 | 0.25 | 0.4 | 0.35 | 0.4 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| В. | Chemical Test Results: | | | | | 1 | | | | |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 164.49 | 164.49 | 164.49 | 164.49 | 164.49 | 164.49 | 164.49 |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 159.12 | 159.12 | 159.12 | 159.12 | 159.12 | 159.12 | 159.12 |

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.

Date of Testing: 25.02.2022

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

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

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

| Sl. No | Characteristic | Requirement (Acceptable | Permissible Limit | | | SOURCE (PHE | SUPPLY) | | |
|-----------|-------------------------------|-------------------------|---|--------------------|---------------------|-------------------------|-----------|-----------|-----------|
| | | Limit) | in the absence | | | ZONE - | II | | |
| | | (IS 10500- 2012) | of alternate Source (IS 10500-2012) | INLET OF O.H.R. | OUTLET OF O.H.R. | NEWTOWN BUS TERMINUS | BA - 120 | AB- 71 | AB - 64 |
| A. Pl | nysico-chemical Test Results: | | | | • | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.95 | 7.94 | 7.97 | 7.99 | 7.97 | 7.98 |
| 2 | Temperature(degree C) | | | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 185.2 | 185.5 | 185.4 | 184.9 | 185.5 | 185.2 |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.41 | 1.84 | 1.20 | 1.56 | 1.44 | 1.46 |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.4 | 0.5 | 0.45 | 0.2 | 0.35 | 0.3 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| В. С | Chemical Test Results: | | | | l | | | | |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 164.49 | 164.49 | 164.49 | 164.49 | 164.49 | 164.49 |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 159.12 | 159.12 | 159.12 | 159.12 | 159.12 | 159.12 |

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.

Date of Testing: 25.02.2022

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 – VII</u>

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

| Sl. No | Characteristic | Requirement (Acceptable | Permissible Limit | | | SOURCE | (PHE SUPPLY) | | |
|-----------|--------------------------|----------------------------|--------------------------------|--------------------|-----------|----------------------------|--------------|-----------|-----------|
| 110 | | Limit) (IS 10500-2012) | in the absence of alternate | | | ZO | NE - VII | | |
| | | | Source (IS 10500-2012) | INLET OF O.H.R. | DC-57 | HIDCO ADMIN BUILDING | DF- 94 | DC-247 | DC-134 |
| A. P | hysico-chemical Test Re | sults: | | | | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.87 | 7.75 | 7.81 | 7.87 | 7.88 | 7.88 |
| 2 | Temperature(degree C) | | | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 |
| 3 | Total Dissolved Solid. | 500.00 | 2000.00 | 187.3 | 192.0 | 187.4 | 187.2 | 187.2 | 187.4 |
| 4 | Turbidity, (NTU) | 1.00 | 5.00 | 1.98 | 1.84 | 1.48 | 1.97 | 1.23 | 1.37 |
| 5 | Residual Free Chlorine | 0.20 | 1.00 | 0.3 | 0.4 | 0.1 | 0.25 | 0.3 | 0.35 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| В. (| Chemical Test Results: | | <u> </u> | | | | | | |
| 7 | Total Hardness, (mg/L) | 200.00 | 600.00 | 156.66 | 160.57 | 156.66 | 156.66 | 156.66 | 156.66 |
| 8 | Total Alkalinity, (mg/L) | 200.00 | 600.00 | 146.88 | 146.88 | 146.88 | 146.88 | 146.88 | 146.88 |

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.

Date of Testing: 28.02.2022

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

TEST REPORT: <u>AA – I. ZONE – VIII</u> Sub.: Water Testing (Physico-chemical & Chemical)

Date of Testing: 28.02.2022

| Sl. | Characteristic | Requirement | Permissible | | | | SOURCE (PH | HE SUPPLY) | | | |
|-------|------------------------------|-------------|-----------------|-----------|-----------|-----------|------------|------------|-----------|-----------|-----------|
| No | | (Acceptable | Limit | | | | ZONE | - VIII | | | |
| | | Limit) | in the absence | | , | | 1 | | | T | |
| | | (IS 10500- | of alternate | INLET OF | OUTLET OF | DA-30 | DC-24 | DA-136 | DB-222 | DA-53 | DC-27 |
| | | 2012) | Source | O.H.R. | O.H.R. | | | | | | |
| | | | (IS 10500-2012) | | | | | | | | |
| A. Ph | ysico-chemical Test Results: | | | | | | | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.75 | 7.76 | 7.81 | 7.85 | 7.86 | 7.87 | 7.91 | 7.92 |
| 2 | Temperature(degree C) | | | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 |
| 3 | Total Dissolved Solid. | 500.00 | 2000.00 | 186.3 | 187.0 | 187.8 | 187.8 | 187.5 | 189.1 | 188.0 | 185.8 |
| 4 | Turbidity. (NTU) | 1.00 | 5.00 | 1.37 | 1.95 | 1.44 | 1.80 | 1.09 | 1.07 | 1.99 | 1.81 |
| 5 | Residual Free Chlorine | 0.20 | 1.00 | 0.35 | 0.5 | 0.35 | 0.35 | 0.2 | 0.4 | 0.3 | 0.3 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| B. Ch | nemical Test Results: | | | | | | • | | | | , |
| 7 | Total Hardness. (mg/L) | 200.00 | 600.00 | 156.66 | 156.66 | 156.66 | 156.66 | 156.66 | 160.57 | 160.57 | 156.66 |
| 8 | Total Alkalinity. (mg/L) | 200.00 | 600.00 | 146.88 | 146.88 | 146.88 | 146.88 | 146.88 | 146.88 | 146.88 | 146.88 |

O.H.R. - OVER HEAD RESERVOIR

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

ACTION AREA – II (FEBRUARY' 2022)

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

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

TEST REPORT: AA – II C, ZONE – I

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

| Characteristic | Requirement (Acceptable Limit) | Permissible Limit in the absence of | | | SOUR | CE (PHE SUPPL | Y) | | |
|-------------------------------|---|--|---|---|--|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|
| | (IS 10500-2012) | alternate Source (IS 10500-2012) | | | AA | - IIC, ZONE - I | | | |
| | | | INLET | OUTLET | AKANKHA | NKDA MKT | STARLIT COMPLEX | HILAND WOODS | MOON BEAM |
| hysico-chemical Test Results | : | | | | | | | | |
| pH Value. | 6.5-8.5 | 6.5-8.5 | 7.60 | 7.67 | 7.71 | 7.81 | 7.82 | 7.84 | 7.82 |
| Temperature (degree C) | | | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 |
| Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 186.7 | 187.4 | 187.7 | 187.6 | 187.8 | 187.9 | 187.6 |
| Turbidity (NTU) | 1.00 | 5.00 | 1.37 | 1.58 | 1.32 | 1.37 | 1.75 | 1.78 | 1.50 |
| Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.45 | 0.5 | 0.35 | 0.45 | 0.4 | 0.3 | 0.4 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Chemical Test Results: | | | | | | I | | | |
| Total Hardness (mg/L) | 200.00 | 600.00 | 164.71 | 168.63 | 168.63 | 164.71 | 168.63 | 168.63 | 168.63 |
| Total Alkalinity (mg/L) | 200.00 | 600.00 | 157.32 | 157.32 | 157.32 | 153.18 | 157.32 | 157.32 | 157.32 |
| Iron(as Fe) (mg/L) | 1.0 | No Relaxation | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chloride (mg/L) | 250.00 | 1000.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 |
| Bacteriological Test Results: | | | | | | | | | |
| Total Coliform (CFU/100 ml) | Absent | Absent | NF | NF | NF | NF | NF | NF | NF |
| Fecal Coliform (CFU/100 ml) | Absent | Absent | NF | NF | NF | NF | NF | NF | NF |
| | hysico-chemical Test Results pH Value. Temperature (degree C) Total Dissolved Solid (mg/L) Turbidity (NTU) Residual Free Chlorine (mg/L) Odour Chemical Test Results: Total Hardness (mg/L) Total Alkalinity (mg/L) Iron(as Fe) (mg/L) Chloride (mg/L) Bacteriological Test Results: Total Coliform (CFU/100 ml) | hysico-chemical Test Results: pH Value. 6.5-8.5 Temperature (degree C) Total Dissolved Solid (mg/L) 500.00 Turbidity (NTU) 1.00 Residual Free Chlorine (mg/L) 0.20 Odour Agreeable Chemical Test Results: Total Hardness (mg/L) 200.00 Total Alkalinity (mg/L) 1.0 Chloride (mg/L) 250.00 Bacteriological Test Results: Total Coliform (CFU/100 ml) Absent | (Acceptable Limit) (IS 10500-2012) in the absence of alternate Source (IS 10500-2012) | (Acceptable Limit) (IS 10500-2012) in the absence of alternate Source (IS 10500-2012) INLET | Acceptable Limit (IS 10500-2012) in the absence of alternate Source (IS 10500-2012) INLET OUTLET | Acceptable Limit (IS 10500-2012) | Acceptable Limit (1S 10500-2012) | Acceptable Limit (IS 10500-2012) | Cacceptable Limit (IS 10500-2012) |

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.

Date of Testing: 09.02.2022

GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERING

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

TEST REPORT: AA – II D, ZONE – V

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

| 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. Phy | ysico-Chemical Test Results: | | | | | | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.93 | 7.94 | 7.93 | 7.94 | | | |
| 2 | Temperature (degree C) | | | 23.2 | 23.2 | 23.2 | 23.2 | | | |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 187.1 | 187.5 | 187.5 | 187.6 | | | |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.66 | 1.41 | 1.60 | 1.91 | | | |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.3 | 0.5 | 0.4 | 0.45 | | | |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | | | |
| B. C | hemical Test Results: | 1 | 1 | | 1 | | 1 | | | |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 168.63 | 168.63 | 168.63 | 168.23 | | | |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 157.32 | 157.32 | 157.32 | 157.32 | | | |
| 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 | 20.90 | 20.90 | 20.90 | 20.90 | | | |
| C. Ba | cteriological Test Results: | • | | | | | | | | |
| 11 | Total Coliform (CFU/100 ml) | Absent | Absent | NF | NF | NF | NF | | | |
| 12 | Fecal Coliform (CFU/100 ml) | Absent | Absent | NF | NF | NF | NF | | | |

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.

Date of Testing: 09.02.2022

GOVERNMENT OF WEST BENGAL DIRECTORATE OF PURI IC HEALTH ENGINEER

DIRECTORATE OF PUBLIC HEALTH ENGINEERING OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I

ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: AA – II D, ZONE – VI

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

| Sl. No | Characteristic | Requirement (Acceptable Limit) | Permissible Limit in the absence of | | SOURCE | (PHE SUPPLY) | |
|-----------|-------------------------------|--------------------------------|-------------------------------------|----------------|------------------|---------------------------------|-------------------------|
| 110 | | (IS 10500-2012) | alternate Source | | AA – III | D, ZONE - VI | |
| | | | (IS 10500-2012) | INLET OF O.H.R | OUTLET OF O.H.R. | SHRACHI GREENWOOD ELEMENT | GREEN FIELD AMBITION |
| A. P | Physico-chemical Test Result | s: | | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.88 | 7.95 | 7.96 | 7.95 |
| 2 | Temperature (degree C) | | | 23.2 | 23.2 | 23.2 | 23.2 |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 187.5 | 187.3 | 187.2 | 186.9 |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.64 | 1.98 | 1.69 | 1.78 |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.35 | 0.4 | 0.35 | 0.4 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| В. | Chemical Test Results: | | | | | | |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 164.71 | 168.63 | 168.63 | 164.72 |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 157.32 | 157.32 | 157.32 | 157.32 |
| 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 | 20.90 | 20.90 | 20.90 | 20.90 |
| C. 1 | Bacteriological Test Results: | • | | | | | • |
| 11 | Total Coliform (CFU/100 ml) | Absent | Absent | NF | NF | NF | NF |
| 12 | Fecal Coliform (CFU/100 ml) | Absent | Absent | NF | NF | NF | NF |

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.

Date of Testing: 09.02.2022

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: 11.02.2022

| Sl. No | Characteristic | Requirement (Acceptable Limit) | Permissible Limit | | SOURCE (PHE SUPPLY) | |
|-------------|-------------------------------|-----------------------------------|------------------------------------|-----------------|---------------------|------------------|
| 110 | | (IS 10500-2012) | in the absence of alternate Source | | AA – IIA, ZONE – X | |
| | | | (IS 10500-2012) | INLET OF O.H.R. | OUTLET OF O.H.R. | ALIAH UNIVERSITY |
| A. P | hysico-chemical Test Results: | | | | | 1 |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.64 | 7.71 | 7.73 |
| 2 | Temperature (degree C) | | | 23.0 | 23.0 | 23.0 |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 187.2 | 187.2 | 187.2 |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.81 | 1.61 | 1.89 |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.45 | 0.7 | 0.6 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| В. (| Chemical Test Results: | 1 | | | | |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 168.63 | 168.63 | 168.63 |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 157.32 | 157.32 | 157.32 |

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

Sd/-Chemist NTKD - I P.H.E. Dte. Sd/-Assistant 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: <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 (P | HE SUPPLY) | | | |
|-----------|--------------------------------|--------------------------------|-------------------------------------|--------------------|---------------------|-------------------|-----------|-------------|----------------|-------------------------|-----------------|
| | | (IS 10500-2012) | alternate 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 | SHILPI VILLA |
| A. P | Physico-chemical Test Results: | | | | | | | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.61 | 7.69 | 7.73 | 7.68 | 7.65 | 7.64 | 7.67 | 7.63 |
| 2 | Temperature (degree C) | | | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 189.2 | 186.8 | 186.7 | 187.1 | 187.0 | 187.6 | 187.1 | 186.7 |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.39 | 1.71 | 1.31 | 1.51 | 1.75 | 1.86 | 1.51 | 1.30 |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.3 | 0.4 | 0.25 | 0.2 | 0.25 | 0.25 | 0.3 | 0.3 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| В. (| Chemical Test Results: | | | | | | • | • | | | |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 164.71 | 168.63 | 164.71 | 164.71 | 164.71 | 168.63 | 164.71 | 168.63 |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 157.32 | 157.32 | 153.18 | 153.18 | 153.18 | 157.32 | 153.18 | 157.72 |

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.

Date of Testing: 11.02.2022

GOVERNMENT OF WEST BENGAL DIRECTORATE OF PURI IC HEALTH ENGINEERING

DIRECTORATE OF PUBLIC HEALTH ENGINEERING VECUTIVE ENGINEER, NEW TOWN FOLKATA WATER SURRIY DIV

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

TEST REPORT: AA – IIG, ZONE – XI

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

| Sl. No | Characteristic | Requirement | Permissible Limit | | SOURCE (PHE SUPPLY) | |
|----------|-------------------------------|--------------------|------------------------------------|-----------------|---------------------|------------|
| | | (Acceptable Limit) | in the absence of alternate Source | | AA – IIG, ZONE - XI | |
| | | (IS 10500-2012) | (IS 10500-2012) | INLET OF O.H.R. | OUTLET OF O.H.R. | EDEN COURT |
| A. Physi | co-chemical Test Results: | | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.48 | 7.51 | 7.53 |
| 2 | Temperature (degree C) | | | 23.2 | 23.2 | 23.2 |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 190.1 | 190.1 | 190.0 |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.14 | 1.97 | 1.96 |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.5 | 0.4 | 0.3 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| B. Chen | nical Test Results: | | 1 | | | |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 164.49 | 164.49 | 168.41 |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 150.96 | 155.04 | 150.96 |
| 9 | Chloride (mg/L) | 250.00 | 1000.00 | <0.1 | <0.1 | <0.1 |
| 10 | Iron(mg/L) | 1.0 | No Relaxation | 22.46 | 22.46 | 20.58 |
| C. Bact | eriological Test Results: | , , | 1 | | | |
| 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 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.

Date of Testing: 15.02.2022

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)

| Sl. No | Characteristic | Requirement (Acceptable Limit) | Permissible Limit in the absence of | | | SOUR | CE (PHE SUPPL | Y) | | |
|-----------|-----------------------------------|--------------------------------|-------------------------------------|-----------|-----------|-----------|-----------------|------------|-----------|-----------|
| | | (IS 10500-2012) | alternate Source (IS 10500-2012) | | | AA | - IIC, ZONE - I | | | |
| | | | | INLET | OUTLET | AKANKHA | NKDA MKT | STARLIT | HILAND | MOON |
| A. P | hysico-chemical Test Results | <u> </u> s: | | | | | | COMPLEX | WOODS | BEAM |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.42 | 7.47 | 7.48 | 7.49 | 7.45 | 7.46 | 7.45 |
| 2 | Temperature (degree C) | | | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 187.9 | 188.6 | 188.8 | 188.0 | 188.3 | 188.3 | 188.3 |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.57 | 1.81 | 1.92 | 1.97 | 1.98 | 1.94 | 1.99 |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.45 | 0.3 | 0.3 | 0.35 | 0.4 | 0.3 | 0.4 |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| В. | Chemical Test Results: | | | | | 1 | 1 | | 1 | 1 |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 164.49 | 160.57 | 168.41 | 164.49 | 164.49 | 164.49 | 164.49 |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 155.04 | 155.04 | 155.04 | 155.04 | 155.04 | 155.04 | 155.04 |

N.F- NOT FOUND,

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.

Date of Testing: 22.02.2022

GOVERNMENT OF WEST BENGAL DIRECTORATE OF PUBLIC HEALTH ENGINEERING

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

TEST REPORT: AA – II D, ZONE – V

Sub.: Water Testing (Physico-chemical & Chemical) Date of Testing: 23.02.2022

| 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. Ph | ysico-Chemical Test Results: | | | | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.88 | 7.91 | 7.93 | 7.97 | |
| 2 | Temperature (degree C) | | | 23.4 | 23.4 | 23.4 | 23.4 | |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 187.8 | 187.9 | 188.1 | 187.4 | |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.89 | 1.81 | 1.41 | 1.91 | |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.2 | 0.6 | 0.4 | 0.4 | |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | |
| B. C | hemical Test Results: | • | ı | 1 | 1 | | 1 | |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 164.49 | 164.49 | 164.49 | 164.49 | |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 155.04 | 155.04 | 155.04 | 155.04 | |

O.H.R. - OVER HEAD RESERVOIR,

Sd/-Chemist NTKD - I P.H.E. Dte. Sd/-Assistant Engineer 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 – II D, ZONE – VI

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

| Sl. No | Characteristic | Requirement (Acceptable Limit) | Permissible Limit in the absence of alternate Source | SOURCE (PHE SUPPLY) AA – IID, ZONE - VI | | | | | | |
|-------------|-------------------------------|--------------------------------|--|--|------------------|---------------------------------|-------------------------|--|--|--|
| . 10 | | (IS 10500-2012) | | | | | | | | |
| | | | (IS 10500-2012) | INLET OF O.H.R | OUTLET OF O.H.R. | SHRACHI GREENWOOD ELEMENT | GREEN FIELD AMBITION | | | |
| 4. P | hysico-chemical Test Result | s: | | | | | | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.93 | 7.96 | 7.97 | 7.97 | | | |
| 2 | Temperature (degree C) | | | 23.4 | 23.4 | 23.4 | 23.4 | | | |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 188.6 | 188.4 | 188.0 | 187.6 | | | |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.48 | 1.65 | 1.54 | 1.81 | | | |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.4 | 0.4 | 0.2 | 0.2 | | | |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | | | |
| B. | Chemical Test Results: | | • | | | | | | | |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 164.49 | 164.49 | 168.41 | 168.41 | | | |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 155.04 | 155.04 | 155.04 | 155.04 | | | |

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.

Date of Testing: 23.02.2022

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)

| Sl. No | Characteristic | Requirement (Acceptable Limit) (IS 10500-2012) | Permissible Limit in the absence of alternate Source | SOURCE (PHE SUPPLY) AA – IIA, ZONE – X | | | | |
|-----------|-------------------------------|--|--|---|------------------|------------------|--|--|
| | | | (IS 10500-2012) | INLET OF O.H.R. | OUTLET OF O.H.R. | ALIAH UNIVERSITY | | |
| A. Pl | hysico-chemical Test Results: | 1 | | | 1 | | | |
| 1 | pH Value. | 6.5-8.5 | 6.5-8.5 | 7.89 | 7.91 | 7.90 | | |
| 2 | Temperature (degree C) | | | 24.6 | 24.6 | 24.6 | | |
| 3 | Total Dissolved Solid (mg/L) | 500.00 | 2000.00 | 188.0 | 187.9 | 187.9 | | |
| 4 | Turbidity (NTU) | 1.00 | 5.00 | 1.71 | 1.15 | 1.95 | | |
| 5 | Residual Free Chlorine (mg/L) | 0.20 | 1.00 | 0.4 | 0.45 | 0.3 | | |
| 6 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | | |
| В. С | Chemical Test Results: | • | | | | | | |
| 7 | Total Hardness (mg/L) | 200.00 | 600.00 | 168.41 | 164.49 | 164.49 | | |
| 8 | Total Alkalinity (mg/L) | 200.00 | 600.00 | 159.12 | 159.12 | 159.12 | | |
| 9 | Iron(as Fe), mg/L | 1.0 | No Relaxation | <0.1 | <0.1 | <0.1 | | |
| 10 | Chloride (mg/L) | 250.00 | 1000.00 | 22.46 | 22.46 | 22.46 | | |
| C .Ba | acteriological 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 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.

Date of Testing: 24.02.2022

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

ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEW TOWN, RAJARHAT, KOLKATA – 700 156

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 (PHE SUPPLY) | | | | | | | | |
|-----------|-------------------------------|--------------------------------|---------------------------------------|---------------------|---------------------|-----------------|-----------|-----------|-----------|----------------------|-----------------|--------------|
| | | (IS 10500-2012)/ | (CPHEEO) | AA – IIB, ZONE – IV | | | | | | | | |
| | | (CPHEEO) | | INLET OF O.H.R. | OUTLET OF O.H.R. | HILAND WOODS | ANAHITA | MALANCHA | NKDA MKT | ECO URBAN VILLAGE | SHILPI VILLA | PLOT 1675 |
| A. P | 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 | 7.80 | 7.82 | 7.83 | 7.84 | 7.83 | 7.84 | 7.81 | 7.82 | 7.84 |
| 2 | Temperature (degree C) | | | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 |
| 3 | Total Dissolved Solid (mg/L) | 500/500 | 2000/2000 | 188.2 | 188.1 | 187.8 | 188.4 | 188.6 | 188.8 | 189.2 | 188.6 | 188.9 |
| 4 | Turbidity (NTU) | 1/1 | 5/10 | 1.35 | 1.88 | 1.89 | 1.97 | 1.99 | 1.95 | 1.99 | 1.10 | 1.31 |
| 5 | Residual Free Chlorine (mg/L) | 0.2/0.2 | 0.2/1.0 | 0.3 | 0.4 | 0.2 | 0.25 | 0.15 | 0.25 | 0.3 | 0.35 | 0.35 |
| 6 | Odour | Agreeable/ 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 | 164.49 | 164.49 | 164.49 | 164.49 | 164.49 | 164.49 | 164.49 | 164.49 | 164.49 |
| 8 | Total Alkalinity (mg/L) | 200/200 | 600/600 | 163.20 | 163.20 | 163.20 | 163.20 | 163.20 | 163.20 | 163.20 | 163.20 | 163.20 |
| 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 | <0.1 | <0.1 |
| 10 | Chloride (mg/L) | 250/200 | 1000/1000 | 22.46 | 22.46 | 22.46 | 22.46 | 22.46 | 22.46 | 22.46 | 22.46 | 22.46 |
| C .B | acteriological Test Results : | | | | · ' | | • | • | | | • | |
| 11 | Total Coliform (CFU/100 ml) | Absent/Absent | Absent/Absent | NF | NF | NF | NF | NF | NF | NF | NF | NF |
| 12 | Fecal Coliform (CFU/100 ml) | Absent/Absent | Absent/Absent | NF | NF | NF | NF | NF | NF | NF | NF | NF |
| | O H D OVED HEAD DE | | 1 | | 1 | | | L | l . | | l . | ı |

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Date of Testing: 24.02.2022