

BEFORE THE NATIONAL GREEN TRIBUNAL

SOUTHERN ZONE, CHENNAI

Original Application No. 107 of 2023 (SZ)

In the matter of:

Tribunal on its own motion Suo motu

Based on the news item published in

The New Indian Express, dt. 09.08.2023,

under the caption "Huge pollution risk in

8km around NLC" and in The Times

of India, Chennai Edition dt. 09.08.2023 under

the caption "Water near NLC full of Mercury".

...Applicant(s)

And

The Managing Director,

NLC India Limited,

Chennai and Ors.

...Respondent(s)

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Through

Dr. D. Shanmuganathan

Standing Counsel of Tamil Nadu

National Green Tribunal

Southern Zone

BEFORE THE NATIONAL GREEN TRIBUNAL AT CHENNAI
ORIGINAL APPLICATION NO 107 OF 2023(S2)

Suo Moto Case taken by the Tribunal

Vs

1. Managing Director,
Neyveli Lignite Corporation India Ltd.,
Chennai.

7. Director of Public Health
through its Director
64, 75, Main Road, Chokkalingam Nagar,
Teynampet,
Chennai,
Tamil Nadu-600 006.

.....Respondents

STATUS REPORT FILED BY THE SEVENTH RESPONDENT

I, Dr. T.S. Selvavinayagam, S/o. T.G. Sivaprakasam, Hindu, aged about 58 years residing at No.9/21, Plot No.6, Ragavendra Colony, Virugambakkam, Chennai-600 092 employed as Director of Public Health and Preventive Medicine do here by solemnly affirm and sincerely state as follows:-

1. I am the Director of Department of Public Health and Preventive Medicine, No. 359, Anna Salai, DMS Compound, Chennai - 6 and the seventh respondent herein as such as I am well acquainted with the facts of the case from the available records and I am filing this status report in order to comply with the directions of this Hon'ble Tribunal. I have read the papers in connection with the suo-moto case taken by the Hon'ble Green

..2...

Tribunal, Chennai against the Managing Director, Neyveli Lignite Corporation India Limited, Chennai in application No 107 of 2023(S2), and, I put forth the activities on behalf of Department of Public Health and Preventive Medicine, in full proof.

2. I submit to state that, in this office letter R.No.5478433/Hygiene/S1/23, dated 24.8.23, the Chief Water Analyst, Water Analysis Laboratory, Chennai of this Department has been requested to carry out the testing of the drinking water sources in and around the Neyveli Lignite Corporation, Cuddalore and the affected areas pointed out in the news paper reports.

3. I submit to state that in her letter R.No.2855/C/2023, dated 26.9.23, the Chief Water Analyst, Chennai has submitted the Special Survey of Water Analysis of drinking water sample collected from town panchayats and villages in 8 km around Neyveli Lignite Corporation India Limited. It has been stated by the Chief Water Analyst, Chennai that the Cuddalore District derives its drinking water supply from bore wells in concerned village panchayat and pumped to OHT and supplies to the public through public fountain and house service connections for drinking purposes after chlorination. A detailed survey was carried out by the Water Analysis Laboratory team and samples of water collected in 8 kms around the Neyveli Lignite Corporation India Limited, Neyveli at Cuddalore district from 28.8.23 to 31.8.23 and 170 drinking water samples for bacteriological analysis and

93 drinking water samples for chemical and biological analysis has been taken to assess their suitability for drinking purpose. Drinking water samples were collected 8 kms around the Neyveli Lignite Corporation India Limited at Cuddalore from the following villages/hamlets and town panchayat.

Old Neyveli, Melpappanampattu, Periyakurichi, Kuravankuppam, Keezpathi, Uyyakondaraavi, Vadakku Seplanatham, Vadakkuvellur, Therkuvellur, Velikkoonankurichi, Palayathandavankuppam, Odaithandavankuppam, Valayamadevi, Thoppulikuppam, Ammeri, Ammeri Kokkankuppam, Kolliruppu, Kaikkilakuppam, Chinnakappankulam, Periyakappankulam, P. Veerattikuppam, P. Kolliruppu, Melakuppam, Mudhanai, Viruthagirikuppam, Oothangal Agaram, Kombaadikuppam, U.Mangalam, Kaattukoonankurichi, Keelakkollai, Melakkollai, Thoppukkollai, Marungur, Keelakuppam, Manadikuppam, Vallam, Periyankuppam, Melkangeyankuppam, Semmankuppam, Sorathur, Nandukkuzhi, Veerasingankuppam, Muthandikuppam, Vanathirayapuram, Pinnaachikuppam Thenkuthu, Kallukuzhi, Kaattukkollai, Karunguli, Kolakkudi, Mettukuppam and Vadalur.

4. I submit to state that, the report of the Chief Water Analyst, Chennai has states as follows,

“Judged by the results of analysis the samples of water collected for chemical analysis are satisfactory of chemical quality for drinking except 21

number of samples which are hard and mineralized. The total hardness content of these water exceed the minimum permissible limit (200 mg/l) prescribed by BIS for a drinking water. However they are acceptable of chemical quality for drinking.

All the samples of water collected for analysis reveals the heavy metals value are within the permissible limits prescribed by Bureau of Indian Standards for a drinking water as per BIS 10500/2012.”

5. I submit to state that in the news published in “The New Indian Express” and “The Times of India”, it has been stated that the ground water within a 7 km radius of Neyveli Lignite Corporation India Limited in Cuddalore District contains 250 times more mercury than the permissible limits. But the Water Analysis Report taken in that area reveals that the heavy metals values are within the permissible limits prescribed by Bureau of Indian Standards for a drinking water as per BIS 10500/2012.

6. I submit to state that the detailed water analysis report submitted by the Chief Water Analyst, Chennai is attached herewith for the kind perusal of the Hon’ble Tribunal.

I therefore humbly pray that this Hon’ble Tribunal may be pleased to accept the submissions made in the foregoing paragraphs and pass such further order/order(s), as this Hon’ble Tribunal may deem fit and proper and thus render justice.

Date:


Signature. 2/3
17/12/23

VERIFICATION

I, Dr.T.S.Selvavinayagam, S/o T.G. Sivaprakasam, aged about 58 years employed as Director of Public Health and Preventive Medicine, No.359, Anna Salai, DMS Campus, Chennai-6, solemnly affirm that the contents of this Report are true to the best of my knowledge based on the records and I have not suppressed any facts.

Date:

Signature:  17/10/24

3/3

**Director of Public Health
and Preventive Medicine
Chennai-600 006**

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Hygiene

DEPARTMENT OF PUBLIC HEALTH AND PREVENTIVE MEDICINE

From

Tmt. L.Sujatha, M.Sc., M.A., B.Ed.,
CHIEF WATER ANALYST,
Chief Water Analysis Laboratory,
King Institute Campus, Guindy,
Chennai – 600 032.

To

The Director of Public Health and
Preventive Medicine,
No.359, Anna Salai, DMS Complex,
Chennai – 600 006.

R.No. 2855/C/ 2023

Dated:26.09.2023.

Sir,

Sub: Public Health and Preventive Medicine – Chief Water Analysis Laboratory, Guindy – O.A. No. 107/2023 a Suo Moto case taken by the National Green Tribunal, Chennai Against the M.D, NLC of India Ltd Chennai and others – Special Survey of drinking water sample collected from town panchayats and villages in 8 km around NLC India Limited – Report Submitted – Regarding.

- Ref:**
1. Notice issued by the National Green Tribunal, Chennai – O.A.No. 107/2023, dated: 19.08.2023.
 2. R.No.5478433/Hyg./S1/2023, dated: 24.08.2023 of the Director of Public Health and Preventive Medicine, Chennai – 6.
 3. This office R.No.2792/A/2023 Dated: 25.08.2023

REPORT ON ANALYSIS OF EXAMINATION OF SAMPLES OF DRINKING WATER COLLECTED IN 8 KMS AROUND NLC OF INDIA LIMITED NEYVELI AREAS AT CUDDALORE DISTRICT.

As per reference 2nd cited and the instruction received from the Director of Public Health and Preventive Medicine, Chennai on 24.08.2023 the Water Analyst team headed by Thiru. S.Kesavan, Deputy Chief Water Analyst, Office of Chief Water Analysis Laboratory, King Institute campus, Guindy, Chennai -32 was deputed to Neyveli, Cuddalore District to carryout special survey and water sample collection in 8 kms around the NLC of India, Neyveli.

The water analyst team met the Deputy Director of Health Services, Cuddalore on 28.08.2023 and visit the following blocks and hamlets in connection with the water sample collection in 8 kms around NLC of India Limited, Neyveli.

1. Kammapuram Block
2. Panruti Block
3. Kurinjipadi Block,
4. Marungur,
5. Vadalore

A detailed field survey was carried out and samples of water collected in 8 kms around the NLC of India, Neyveli at Cuddalore District from 28.08.2023 to 31.08.2023.

Sources of Water:

Cuddalore district derives its drinking water supply from bore wells in concerned village panchayat and pumped to OHT and supplied to the public through public fountain and house service connections for drinking purposes after chlorination.

Sampling points:

After carrying out the field survey, one hundred and seventy samples of water for bacteriological analysis and ninety three samples of water for chemical and biological analysis were collected on 28.08.2023 to 31.08.2023 to assess their suitability for drinking purpose.

- 1 Bore well water direct at Perumal koil street at Old Neyveli
- 2 Bore well water as it falls in OHT at Melpappanampattu
- 3 Bore well water from OHT at Melpappanampattu
- 4 1st tap after Melpappanampattu OHT
- 5 Bore well water as it falls in OHT at Chelliamman kovil street at Melpappanampattu
- 6 Bore well water from OHT at Chelliamman kovil street at Melpappanampattu
- 7 1st tap after Selliamman kovil street OHT
- 8 Last tap at Selliamman kovil street
- 9 Bore well water as it falls in OHT near Panchayat Union Office at Periyakurichi
- 10 Bore well water from OHT near Panchayat Union Office, at Periyakurichi
- 11 1st tap after near Panchayat Union Office, Periyakurichi
- 12 Last tap at Kuravankuppam
- 13 Bore well water direct at Middle street Kuravankuppam
- 14 Tap in Middle street, near Xerox shop
- 15 Bore well water as it falls in OHT at Panchayat Union Primary School street Keezhpathi
- 16 Bore well water from OHT at Panchayat Union Primary School street Keezhpathi
- 17 1st tap after near Panchayat Union Primary School street OHT Keezhpathi
- 18 Last tap at Pillaiyar Kovil street

- 19 Bore well water as it falls in OHT at Panchayat Union Middle School
Uyyakondaraavi
- 20 Bore well water from OHT at Panchayat Union Middle School, Uyyakondaraavi
- 21 1st tap after OHT at Panchayat Union Middle School, Uyyakondaraavi
- 22 Last tap at Colony street
- 23 Bore well water as it falls in OHT at Uyyakondaraavi Colony
- 24 Bore well water from OHT at Uyyakondaraavi Colony
- 25 1st tap after OHT at Uyyakondaraavi Colony
- 26 Last tap at West street
- 27 Bore well water as it falls in OHT at Vadakku Seplanatham
- 28 Bore well water from OHT at Vadakku Seplanatham
- 29 1st tap after OHT at Vadakku Seplanatham
- 30 Last tap at East street
- 31 Bore well water as it falls in OHT at Vadakkuvellur Jayaram Nagar
- 32 Bore well water from OHT at Vadakkuvellur Jayaram Nagar
- 33 1st tap after OHT at Vadakkuvellur Jayaram Nagar
- 34 Last tap at Pillaiyar Kovil street
- 35 Bore well water as it falls in OHT at Vadakkuvellur Iyyappan kovil street
- 36 Bore well water from OHT at Vadakkuvellur Iyyappan kovil street
- 37 1st tap after OHT at Vadakkuvellur Iyyappan kovil street
- 38 Last tap at Iyyappan kovil street
- 39 Bore well water as it falls in OHT at Alagunachiyamman kovil street
- 40 Bore well water from OHT at Alagunachiyamman kovil street
- 41 1st tap at OHT at Alagunachiyamman kovil street
- 42 Last tap at Therku Vellur
- 43 Bore well water as it falls in OHT at Muthumariyamman kovil street,
Velikkoonankurichi
- 44 Bore well water from OHT at Velikkoonankurichi near Muthumariyamman kovil
- 45 1st tap after OHT at Velikkoonankurichi
- 46 Bore well water as it falls in OHT at SPOS Nagar
- 47 Bore well water from OHT at SPOS Nagar
- 48 1st tap after OHT at SPOS Nagar
- 49 Last tap at JPA School street
- 50 Bore well water as it falls in OHT at NCV Nagar
- 51 Bore well water from OHT at NCV Nagar
- 52 1st tap after OHT at NCV Nagar
- 53 Last tap at Cuddalore main road
- 54 Bore well water as it falls in OHT at Muslim Colony, NRC Nagar
- 55 Bore well water from OHT at Muslim Colony, NRC Nagar
- 56 1st tap after OHT at Muslim Colony, NRC Nagar
- 57 Last tap at Kareem Sandhu
- 58 Bore well water as it falls in OHT at Palayathandavankuppam
- 59 Bore well water from OHT AT Palayathandavankuppam
- 60 1st tap after OHT at Palayathandavankuppam
- 61 Last tap at Palayathandavankuppam
- 62 Bore well water from direct at Odaithandavankuppam
- 63 Bore well water as it falls in OHT at AG puram

- 64 Bore well water from OHT at AG puram
- 65 1st tap after OHT at AG puram
- 66 Last tap at AG puram main road
- 67 Bore well water from direct at Valayamadevi
- 68 Bore well water as it falls in OHT at Tholkappiar street, Vadakkuvellur
- 69 Bore well water from OHT at Tholkappiar street, Vadakkuvellur
- 70 1st tap after OHT at Tholkappiar street, Vadakkuvellur
- 71 Last tap at Arunthadiyar street
- 72 Bore well water as it falls in OHT at Thoppulikuppam
- 73 Bore well water from OHT at Thoppulikuppam
- 74 1st tap at Colony street
- 75 Last tap west street
- 76 Bore well water as it falls in OHT at Ammeri
- 77 Bore well water from OHT at Ammeri
- 78 1st tap after OHT at South street
- 79 Last tap at North street
- 80 Bore well water as it falls in OHT at Ammeri Kokkankuppam
- 81 Bore well water from OHT at Ammeri Kokkankuppam
- 82 1st tap after OHT at Mariyamman kovil street
- 83 Last tap at South street
- 84 Bore well water as it falls in OHT at A.Kakkankuppam East street
- 85 Bore well water from OHT AT A.Kokkankuppam
- 86 1st tap at East street
- 87 Last tap at West street
- 88 Bore well water as it falls in OHT at Kolliruppu
- 89 Bore well water from OHT at Kolliruppu
- 90 1st tap at Dhandapani kovil street
- 91 Last tap at Dhandapani kovil street
- 92 Bore well water as it falls in OHT at Kaikkilakuppam
- 93 Bore well water from OHT at Kaikkilakuppam
- 94 1st tap at North street
- 95 Last tap at South street
- 96 Bore well water as it falls in OHT at Chinnakappankulam
- 97 Bore well water from OHT at Chinnakappankulam
- 98 1st tap at West street
- 99 Last tap at East street
- 100 Bore well water as it falls in OHT at Periyakappankulam
- 101 Bore well water from OHT at Periyakappankulam
- 102 1st tap at Karanthai Iyanar kovil street
- 103 Last tap at Middle street
- 104 Bore well water as it falls in OHT at P.Veerattikuppam
- 105 Bore well water from OHT at P.Veerattikuppam
- 106 1st tap at North street
- 107 Last tap at Sivan kovil
- 108 Bore well water from tap at P.Kolliruppu
- 109 Bore well water as it falls in OHT at Melakuppam
- 110 Bore well water as it falls in OHT at Mudhanai

- 111 Bore well water as it falls in OHT at Viruthagirikuppam
- 112 Bore well water as it falls in OHT at Pudu Viruthagirikuppam
- 113 Bore well water as it falls in OHT at Oothangal Agaram
- 114 Bore well water as it falls in OHT at Kombaadikuppam
- 115 Bore well water as it falls in OHT at U.Mangalam
- 116 Bore well water as it falls in OHT at Kaattukoonankurichi, near Panchayat Union Office
- 117 Bore well water as it falls in OHT at Kaattukoonankurichi (No.2)
- 118 Bore well water as it falls in OHT at Keelakkollai
- 119 Tap at Kaaman kovil street
- 120 Bore well water as it falls in OHT in Meelakkollai, near Murugan kovil street
- 121 Tap at East street
- 122 Bore well water as it falls in OHT at Thoppukkollai
- 123 Tap at Thoppukkollai
- 124 Bore well water as it falls in OHT in Marungur
- 125 Tap at Marungur main road
- 126 Bore well water as it falls in OHT in Keelakuppam
- 127 Tap at Mariyamman kovil street
- 128 Bore well water as it falls in OHT at Manadikuppam
- 129 Tap at North street (Yerivazhi)
- 130 Bore well water as it falls in OHT at Vallam
- 131 Tap at South street
- 132 Bore well water as it falls in OHT at Periyankuppam
- 133 Tap at Ambedkar street
- 134 Bore well water as it falls in OHT at Melkangeyankuppam
- 135 Tap at Angalamman kovil street
- 136 Bore well water as it falls in OHT at Semmankuppam
- 137 Tap at South street
- 138 Bore well water as it falls in OHT at Sorathur
- 139 Tap at Amman kovil street
- 140 Bore well water from direct at Nandukkuzhi
- 141 Tap at East street
- 142 Bore well water as it falls in OHT at CR Colony G Block
- 143 Tap at G block
- 144 Borewell water as it falls in OHT at Veerasingankuppam
- 145 Tap at South street
- 146 Bore well water as it falls in OHT at Muthandikuppam
- 147 Tap at Neyveli road
- 148 Bore well water as it falls in OHT at CR colony, B-block
- 149 Tap at B block
- 150 Borewell water as it falls in OHT at Phase II, A Block Neyveli quarters
- 151 Tap at Phase II, A block
- 152 Bore well water as it falls in OHT, near Neyveli PHC
- 153 Tap at PHC street
- 154 Bore well water from direct supply from NLC at Vanathirayapuram
- 155 Tap at Pinnaachikuppam
- 156 Bore well water as it falls in OHT at Thenkuthu

- 157 Tap in Middle street, near Xerox shop
- 158 Bore well water direct supply from NLC at Kallukuzhi
- 159 Tap at Thenkuthu Pudu Nagar
- 160 Bore well water from OHT at Kaattukkollai
- 161 Tap at Railway station road
- 162 Bore well water as it falls in OHT at Karunguli
- 163 Tap at Perumal kovil street
- 164 Bore well water as it falls in OHT in Kolakkudi
- 165 Tap at Panchayat Union Middle School, Kolakkudi
- 166 Bore well as it falls in OHT in Mettukuppam
- 167 Tap at School street
- 168 Bore well water as it falls in OHT near Sabai Bus stop
- 169 Tap at Sabai road
- 170 Bore well water as it falls in OHT near Vadalur PHC

The results of analysis are furnished overleaf.

The sample of water collected from the above Sources / Points are colourless and clear in physical appearance except the sample of water collected from:

1. Bore well water as it falls in OHT at Vadakkuvellur Iyyappan kovil street (RWS - 69)
 2. Bore well water from OHT at Vadakkuvellur Iyyappan kovil street (RWS - 70)
 3. Bore well water as it falls in OHT at Alagunachiyamman kovil street (RWS - 71)
 4. Bore well water from OHT at Alagunachiyamman kovil street (RWS - 72)
 5. Bore well water as it falls in OHT at NCV Nagar (RWS - 77)
 6. Bore well water from OHT at NCV Nagar (RWS - 78)
 7. Bore well water as it falls in OHT at Muslim Colony, NRC Nagar (RWS - 79)
 8. Bore well water from OHT at Muslim Colony, NRC Nagar (RWS - 80)
 9. Bore well water from direct at Valayamadevi (RWS - 86)
 10. Bore well water as it falls in OHT at Tholkappiar street, Vadakkuvellur (RWS - 87)
 11. Bore well water from OHT at Tholkappiar street, Vadakkuvellur (RWS - 88)
 12. Bore well water as it falls in OHT at Muthandikuppam (RWS - 131)
- are slightly white and slightly turbid in physical appearance.

Judged by the results of analysis the samples of water collected for chemical analysis are satisfactory of chemical quality for drinking except the samples of water collected from:

1. Bore well water as it falls in OHT near Panchayat Union Office at Periyakurichi (RWS - 56)
2. Bore well water from OHT near Panchayat Union Office, at Periyakurichi (RWS - 57)
3. Bore well water direct at Middle street Kuravankuppam (RWS - 58)
4. Bore well water as it falls in OHT at Panchayat Union Primary School street Keezhpathi (RWS - 59)
5. Bore well water from OHT at Panchayat Union Primary School street Keezhpathi (RWS - 60)

6. Bore well water as if falls in OHT at Panchayat Union Middle School Uyyakondaraavi (RWS – 61)
7. Bore well water from OHT at Panchayat Union Middle School, Uyyakondaraavi (RWS-62)
8. Bore well water as it falls in OHT at Uyyakondaraavi Colony (RWS – 63)
9. Bore well water from OHT at Uyyakondaraavi Colony (RWS-64)
10. Bore well water as it falls in OHT at Vadakku Seplanatham (RWS -65)
11. Bore well water from OHT at Vadakku Seplanatham (RWS – 66)
12. Bore well water as it falls in OHT at Alagunachiyamman kovil street (RWS –71)
13. Bore well water from OHT at Alagunachiyamman kovil street (RWS – 72)
14. Bore well water as if falls in OHT at Muthumariyamman kovil street, Velikkoonankurichi (RWS – 73)
15. Bore well water from OHT at Velikkoonankurichi near Muthumariyamman kovil(RWS -74)
16. Bore well water as it falls in OHT at Muslim Colony, NRC Nagar (RWS-79)
17. Bore well water from OHT at Muslim Colony, NRC Nagar (RWS-80)
18. Bore well water from direct at Valayamadevi (RWS – 86)
19. Bore well water as it falls in OHT at Kaattukoonankurichi (No.2)(RWS – 116)
20. Bore well water as it falls in OHT at Keelakkollai (RWS – 117)
21. Bore well as it falls in OHT in Mettukuppam (RWS – 141)

are hard and mineralized. The total hardness content of these water exceed the minimum permissible limit (200 mg/l) prescribed by BIS for a drinking water. However they are acceptable of chemical quality for drinking.

Bacteriological analysis reveals that the samples of water collected from

1. Bore well water direct at Perumal koil street at Old Neyveli (RWS -51)
2. Bore well water from OHT at Melpappanampattu (RWS – 53)
3. 1st tap after Melpappanampattu OHT (RWS – 53A)
4. Bore well water as it falls in OHT near Panchayat Union Office at Periyakurichi (RWS – 56)
5. Bore well water from OHT near Panchayat Union Office, at Periyakurichi(RWS -57)
6. 1st tap after near Panchayat Union Office, Periyakurichi(RWS – 57A)
7. Last tap at Kuravankuppam (RWS – 57B)
8. Bore well water as it falls in OHT at Melakuppam (RWS – 108)
9. Bore well water as it falls in OHT at Mudhanai (RWS-109)
10. Bore well water as it falls in OHT at Viruthagirikuppam (RWS-110)
11. Bore well water as it falls in OHT at Pudu Viruthagirikuppam(RWS-111)
12. Bore well water as it falls in OHT at Oothangal Agaram(RWS-112)
13. Bore well water as it falls in OHT at Kombaadikuppam(RWS-113)
14. Bore well water as it falls in OHT at U.Mangalam (RWS-114)
15. Bore well water as it falls in OHT at Kaattukoonankurichi, near Panchayat Union Office (RWS-115)
16. Bore well water as it falls in OHT at Kaattukoonankurichi (No.2)(RWS-116)
17. Bore well water as it falls in OHT at Keelakkollai (RWS-117)
18. Tap at Kaaman kovil street (RWS-117A)

19. Bore well water as it falls in OHT in Meelakkollai, near Murugan kovil street (RWS-118)
20. Tap at East street (RWS-118A)
21. Bore well water as it falls in OHT in Marungur(RWS-120)
22. Tap at Marungur main road(RWS-120A)
23. Bore well water as it falls in OHT in Keelakuppam(RWS-121)
24. Tap at Mariyamman kovil street (RWS-121A)
25. Bore well water as it falls in OHT at Vallam(RWS-123)
26. Tap at South street(RWS-123A)
27. Bore well water as it falls in OHT at Melkangayankuppam(RWS-125)
28. Tap at Angalamman kovil street (RWS-125A)
29. Bore well water as it falls in OHT at CR Colony G Block(RWS-129) and
30. Tap at G block(RWS-129A)

are poor bacteriological quality as evidenced by the presence of coliform group of organisms on this occasion. It may be due to the absence of chlorination on the sampling day.

The samples of water collected from all other distribution points are of satisfactory hygienic quality for drinking on this occasion.

The microscopical examination reveals the samples of water collected from

1. Bore well water direct at Perumal koil street at Old Neyveli (RWS -51)
2. Bore well water from OHT at Melpappanampattu (RWS – 53)
3. Bore well water as it falls in OHT near Panchayat Union Office at Periyakurichi (RWS – 56)
4. Bore well water from OHT near Panchayat Union Office, at Periyakurichi (RWS -57)
5. Bore well water as it falls in OHT at Melakuppam (RWS – 108)
6. Bore well water as it falls in OHT at Mudhanai (RWS-109)
7. Bore well water as it falls in OHT at Viruthagirikuppam (RWS-110)
8. Bore well water as it falls in OHT at Kombaadikuppam(RWS-113)
9. Bore well water as it falls in OHT at U.Mangalam (RWS-114)
10. Bore well water as it falls in OHT at Kaattukoonankurichi, near Panchayat Union Office (RWS-115)
11. Bore well water as it falls in OHT at Kaattukoonankurichi (No.2)(RWS-116)
12. Bore well water as it falls in OHT at Keelakkollai (RWS-117)
13. Bore well water as it falls in OHT in Meelakkollai, near Murugan kovil street (RWS-118)
14. Bore well water as it falls in OHT in Thoppukollai(RWS-119)
15. Bore well water as it falls in OHT in Marungur(RWS-120)
16. Bore well water as it falls in OHT at Vallam(RWS-123) and
17. Bore well water as it falls in OHT at Melkangayankuppam(RWS-125)

shows few algal and zoo forms. It is suggested that the storage units should be kept clean to maintain hygienic status at all times.

Method of Disinfection:

It is to be carried out by using 4 grams of BIS grade stable bleaching powder having 32-34% chlorine content or 20 ml of 4% to 6% Sodium hypo chlorite solution (or) 1 gram gaseous chlorine of 99.5% of available chlorine for every 1000 litres of water at Sump / OHT and allow half an hour contact time before the distribution for drinking.

Heavy Metal Analysis Results:

All the samples of water collected for analysis reveals the heavy metals value are within the permissible limits prescribed by Bureau of Indian Standards for a drinking water as per BIS 10500/2012.

The following suggestions are offered for immediate implementation to ensure hygienic safety of drinking water supply:

1. The surroundings of the all OHT / Sumps sites should always be kept clean and tidy.
2. Proper compound wall / Fencing should be provided to the OHT / Sump to prevent entry of Strangers / Cattle.
3. If any leakages found in the distribution lines should be arrested immediately.
4. All the Sump / OHT should be kept covered to prevent extraneous contamination.
5. Chlorination at the OHT / Sump in highly imperative to prevent water born diseases. Hence it is advised that, systematic regular uninterrupted chlorination should be carried out should be optimized.
6. The staff at fields who are in-charge of water supply should be instructed the method and importance of chlorination at OHT/ Sumps.
7. All the Sump / OHT should be cleaned periodically, atleast once in a month to remove salt and sediments.
8. A separate stock register showing the particulars of procurement of Bleaching Powder, stock on hand, daily usage for chlorination, date of cleaning of OHT, scouring of pipelines, etc., should be maintained for the perusal of inspecting authorities.

Enclosure: Annexure A
Annexure B

27/9/23
**CHIEF WATER ANALYST,
Chief Water Analysis Laboratory,
Guindy, Chennai – 600 032.**

Copy Submitted to: The Director of Public Health and Preventive Medicine,
Anna Salai, Chennai – 6. (Hygiene)

Copy to : The Deputy Director of Health Services, Cuddalore,
Cuddalore District.
The Lab and File.

Annexure A**RESULTS OF EXAMINATION OF SAMPLES OF WATER****From: The NLC Special Camp at Neyveli, Cuddalore District.****Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I**

RWS - 51 RWS - 52 RWS - 53 RWS - 53A RWS - 54

Date of Collection : 28.08.2023, 29.08.2023 Date of Receipt : 01.09.2023 Source as per label		Bore well water direct at Perumal koil street at Old Neyveli	Bore well water as it falls in OHT at Melpappanam pattu	Bore well water from OHT at Melpappanam pattu	1st tap after Melpappanam pattu OHT	Bore well water as it falls in OHT at Chelliamman kovil street at Melpappanam pattu	
Bacteriological Examination	Total colonies per ml on agar at 37°C	70	10	200		10	
	MPN of Coliform bacteria per 100 ml.	210	0	460	>16	0	
	Rapid Test for E.Coli	Negative		Negative	Negative		
	Results of vibrio test						
Physical Examination	Colour	Colourless	Colourless	Colourless		Colourless	
	Turbidity (Units)	5	5	5		5	
	Smell	None	None	None		None	
Chemical Examination (in mg/l).	Total Solids	310	370	340		430	
	Carbonate hardness as CaCO ₃	148	156	144		196	
	Non- Carbonate hardness as CaCO ₃	12	12	20		0	
	Total hardness as CaCO ₃	160	168	164		196	
	Chloride as Chlorine	40	40	40		40	
	Ammoniacal nitrogen	-	-	-		-	
	Albuminoid nitrogen	-	-	-		-	
	Oxygen absorbed (Tidy's test)	0.4	0.4	0.48		0.4	
	Nitrate-nitrogen	2.0	0.5	0.5		0.5	
	Acidity	0	0	0		0	
	as CaCO ₃	} Phenolphthalein Methyl Orange	148	156	144		196
			0.2	0.2	0.2		0.2
	Fluoride as Fluorine	0.2	0.2	0.2		0.2	
	PH.	6.9	6.8	6.7		7.9	
	Iron as Fe Total	0.05	0.1	0.1		0.3	
	Ferrous						
	Manganese as Mn.						
	Qualitative- Nitrite nitrogen	Trace	Trace	Trace		Trace	
	Sulphate	Trace	Trace	Trace		Trace	
	Phosphate	Trace	Trace	Trace		Trace	
Toxic substances							
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)	440	530	480		620		
Microscopical Examination	Monas & Amorphous matter	Amorphous matter	Monas, Colpoda & Amorphous matter		Amorphous matter		

The available chlorine in given bleaching powder sample is **30.1%** by mass.

RESULTS OF EXAMINATION OF SAMPLES OF WATER**From: The NLC Special Camp at Neyveli, Cuddalore District.****Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I**

RWS-55

RWS-55A

RWS - 55B

RWS-56

RWS-57

Date of Collection :28.08.2023		Bore well water from OHT at Chelliamman kovil street at Melpappanam pattu	1st tap after Selliamman kovil street OHT	Last tap at Selliamman kovil street	Bore well water as it falls in OHT near Panchayat Union Office at Periyakurichi	Bore well water from OHT near Panchayat Union Office, at Periyakurichi
Date of Receipt :29.08.2023 and 01.09.2023						
Source as per label						
Bacteriological Examination	Total colonies per ml on agar at 37°C	5			100	100
	MPN of Coliform bacteria per 100 ml.	0	0	0	460	1100
	Rapid Test for E.Coli				Negative	Negative
	Results of vibrio test					
Physical Examination	Colour	Colourless			Colourless	Colourless
	Turbidity (Units)	5			5	5
	Smell	None			None	None
Chemical Examination (in mg/l).	Total Solids	410			660	790
	Carbonate hardness as CaCO ₃	164			172	152
	Non- Carbonate hardness as CaCO ₃	16			60	264
	Total hardness as CaCO ₃	180			232	416
	Chloride as Chlorine	42			124	80
	Ammoniacal nitrogen	--			--	--
	Albuminoid nitrogen	--			--	--
	Oxygen absorbed (Tidy's test)	0.32			0.48	0.56
	Nitrate-nitrogen	0.5			1.0	1.0
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange	0			0	0
		164			176	152
	Fluoride as Fluorine	0.2			0.1	0.2
	PH.	6.9			7.2	6.9
	Iron as Fe Total	0.05			0.05	0.05
		Ferrous				
	Manganese as Mn.					
	Qualitative- Nitrite nitrogen	Trace			Trace	Trace
	Sulphate	Trace			Trace	Trace
	Phosphate	Trace			Trace	Trace
	Toxic substances					
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)	580			940	1130	
Microscopical Examination	Amorphous matter			Monas, Keratella & Amorphous matter	Monas, Keratella & Amorphous matter	

RESULTS OF EXAMINATION OF SAMPLES OF WATER**From: The NLC Special Camp at Neyveli, Cuddalore District.****Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and****Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I**

RWS-57A RWS-57B RWS-58 RWS- 58A RWS - 59

Date of Collection :28.08.2023		1st tap after near Panchayat Union Office, Periyakurichi	Last tap at Kuravanku ppam	Bore well water direct at Middle street Kuravan kuppam	Tap in Middle street, near Xerox shop	Bore well water as it falls in OHT at Panchayat Union Primary School street Keezhpathi	
Date of Receipt :29.08.2023 and 01.09.2023							
Source as per label							
Bacteriological Examination	Total colonies per ml on agar at 37°C			10		10	
	MPN of Coliform bacteria per 100 ml.	>16	>16	0	0	0	
	Rapid Test for E.Coli	Negative	Negative				
	Results of vibrio test						
Physical Examination	Colour			Colourless		Colourless	
	Turbidity (Units)			5		5	
	Smell			None		None	
Chemical Examination (in mg/l).	Total Solids			610		810	
	Carbonate hardness as CaCO ₃			80		200	
	Non- Carbonate hardness as CaCO ₃			160		88	
	Total hardness as CaCO ₃			240		288	
	Chloride as Chlorine			164		132	
	Ammoniacal nitrogen			--		--	
	Albuminoid nitrogen			--		--	
	Oxygen absorbed (Tidy's test)			0.32		0.48	
	Nitrate-nitrogen			1.0		0.5	
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange			0		0	
				80		200	
	Fluoride as Fluorine			0.4		0.2	
	PH.			6.5		7.8	
	Iron as Fe Total			0.05		0.1	
		Ferrous					
	Manganese as Mn.						
	Qualitative- Nitrite nitrogen				Trace		Trace
	Sulphate				Trace		Present
	Phosphate				Trace		Trace
	Toxic substances						
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)				870		1150	
Microscopical Examination				Amorphous matter		Amorphous matter	

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

RWS-60 RWS - 60A RWS-60B RWS-61 RWS-62

Date of Collection :28.08.2023		Bore well water from OHT at Panchayat Union Primary School street Keezhpathi	1st tap after near Panchayat Union Primary School street OHT Keezhpathi	Last tap at Pillaiyar Kovil street	Bore well water as if falls in OHT at Panchayat Union Middle School Uyyakondaraavi	Bore well water from OHT at Panchayat Union Middle School, Uyyakondaraavi	
Date of Receipt :29.08.2023 and 01.09.2023							
Source as per label							
Bacteriological Examination	Total colonies per ml on agar at 37°C	10			10	5	
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0	
	Rapid Test for E.Coli						
	Results of vibrio test						
Physical Examination	Colour	Colourless			Colourless	Colourless	
	Turbidity (Units)	5			5	5	
	Smell	None			None	None	
Chemical Examination (in mg/l).	Total Solids	770			780	780	
	Carbonate hardness as CaCO ₃	220			220	220	
	Non- Carbonate hardness as CaCO ₃	76			76	76	
	Total hardness as CaCO ₃	296			296	296	
	Chloride as Chlorine	140			140	140	
	Ammoniacal nitrogen	--			--	--	
	Albuminoid nitrogen	--			--	--	
	Oxygen absorbed (Tidy's test)	0.48			0.4	0.4	
	Nitrate-nitrogen	0.5			0.5	0.5	
	Acidity as CaCO ₃	} Phenolphthalein	0			0	0
			} Methyl Orange	220			220
	Fluoride as Fluorine	0.2				0.2	0.2
	PH.	7.9			8.0	8.0	
	Iron as Fe Total	0.1			0.1	0.1	
	Ferrous						
	Manganese as Mn.						
	Qualitative- Nitrite nitrogen	Trace			Trace	Trace	
	Sulphate	Trace			Trace	Trace	
	Phosphate	Trace			Trace	Trace	
Toxic substances							
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)	1100			1110	1110		
Microscopical Examination	Amorphous matter			Amorphous matter	Amorphous matter		

RESULTS OF EXAMINATION OF SAMPLES OF WATER**From: The NLC Special Camp at Neyveli, Cuddalore District.****Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and****Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I**

RWS-62A

RWS - 62B

RWS-63

RWS-64

RWS-64A

Date of Collection :28.08.2023		1st tap after OHT at Panchayat Union Middle School, Uyyakondaraavi	Last tap at Colony street	Bore well water as it falls in OHT at Uyya-kondaraavi Colony	Bore well water from OHT at Uyya-kondaraavi Colony	1st tap after OHT at Uyya-kondaraavi Colony	
Date of Receipt :29.08.2023 and 01.09.2023							
Source as per label							
Bacteriological Examination	Total colonies per ml on agar at 37°C			5	5		
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0	
	Rapid Test for E.Coli						
	Results of vibrio test						
Physical Examination	Colour			Colourless	Colourless		
	Turbidity (Units)			5	5		
	Smell			None	None		
Chemical Examination (in mg/l).	Total Solids			930	880		
	Carbonate hardness as CaCO ₃			304	220		
	Non- Carbonate hardness as CaCO ₃			80	84		
	Total hardness as CaCO ₃			384	304		
	Chloride as Chlorine			156	168		
	Ammoniacal nitrogen			--	--		
	Albuminoid nitrogen			--	--		
	Oxygen absorbed (Tidy's test)			0.4	0.4		
	Nitrate-nitrogen			1.0	1.0		
	Acidity as CaCO ₃	} Phenolphthalein			0	0	
			} Methyl Orange			304	220
	Fluoride as Fluorine				0.2	0.2	
	PH.			6.8	7.9		
	Iron as Fe Total				0.2	0.2	
		Ferrous					
	Manganese as Mn.						
	Qualitative- Nitrite nitrogen				Trace	Trace	
	Sulphate				Present	Present	
	Phosphate				Trace	Trace	
	Toxic substances						
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)				1330	1260		
Microscopical Examination				Amorphous matter	Amorphous matter		

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

		RWS-64B	RWS-65	RWS-66	RWS-66A	RWS-66B
Date of Collection :28.08.2023						
Date of Receipt :29.08.2023 and 01.09.2023						
Source as per label						
		Last tap at West street	Bore well water as it falls in OHT at Vadakku Seplanatham	Bore well water from OHT at Vadakku Seplanatham	1st tap after OHT at Vadakku Seplanatham	Last tap at East street
Bacteriological Examination	Total colonies per ml on agar at 37°C		10	10		
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0
	Rapid Test for E.Coli					
	Results of vibrio test					
Physical Examination	Colour		Colourless	Colourless		
	Turbidity (Units)		5	5		
	Smell		None	None		
Chemical Examination (in mg/l).	Total Solids		770	770		
	Carbonate hardness as CaCO ₃		224	224		
	Non- Carbonate hardness as CaCO ₃		64	64		
	Total hardness as CaCO ₃		288	288		
	Chloride as Chlorine		140	140		
	Ammoniacal nitrogen		--	--		
	Albuminoid nitrogen		--	--		
	Oxygen absorbed (Tidy's test)		0.4	0.4		
	Nitrate-nitrogen		1.0	1.0		
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange		0	0		
			224	224		
	Fluoride as Fluorine		0.2	0.2		
	PH.		7.9	8.0		
	Iron as Fe Total		0.2	0.2		
		Ferrous				
	Manganese as Mn.					
	Qualitative-					
	Nitrite nitrogen		Trace	Trace		
	Sulphate		Trace	Trace		
	Phosphate		Trace	Trace		
Toxic substances						
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)		1100	1100			
Microscopical Examination		Amorphous matter	Amorphous matter			

RESULTS OF EXAMINATION OF SAMPLES OF WATER**From: The NLC Special Camp at Neyveli, Cuddalore District.****Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and****Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I**

RWS-67

RWS-68

RWS-68A

RWS-68B

RWS-69

Date of Collection :28.08.2023		Bore well water as it falls in OHT at Vadakkuvellur Jayaram Nagar	Bore well water from OHT at Vadakku vellur Jayaram Nagar	1st tap after OHT at Vadakku vellur Jayaram Nagar	Last tap at Pillaiyar Kovil street	Bore well water as it falls in OHT at Vadakkuvellur Iyyappan kovil street
Date of Receipt :29.08.2023 and 01.09.2023						
Source as per label						
Bacteriological Examination	Total colonies per ml on agar at 37°C	10	10			10
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0
	Rapid Test for E.Coli					
	Results of vibrio test					
Physical Examination	Colour	Colourless	Colourless			Sl. Whitish
	Turbidity (Units)	5	5			7
	Smell	None	None			None
Chemical Examination (in mg/l).	Total Solids	430	420			170
	Carbonate hardness as CaCO ₃	120	120			44
	Non- Carbonate hardness as CaCO ₃	68	68			24
	Total hardness as CaCO ₃	188	188			68
	Chloride as Chlorine	40	32			16
	Ammoniacal nitrogen	--	--			--
	Albuminoid nitrogen	--	--			--
	Oxygen absorbed (Tidy's test)	0.48	0.4			0.32
	Nitrate-nitrogen	0.5	0.5			0.5
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange	0	0			0
		120	120			44
	Fluoride as Fluorine	0.2	0.2			0.1
	PH.	7.4	7.4			6.8
	Iron as Fe Total	0.05	0.05			1.0
	Ferrous					
	Manganese as Mn.					
	Qualitative- Nitrite nitrogen	Trace	Trace			Trace
	Sulphate	Trace	Trace			Trace
	Phosphate	Trace	Trace			Trace
	Toxic substances					
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)	610	600			240	
Microscopical Examination	Amorphous matter	Amorphous matter			Amorphous matter	

RESULTS OF EXAMINATION OF SAMPLES OF WATER**From: The NLC Special Camp at Neyveli, Cuddalore District.****Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and****Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I**

		RWS-70	RWS-70A	RWS-70B	RWS-71	RWS-72	
Date of Collection :28.08.2023		Bore well water from OHT at Vadakkuvellur Iyyappan kovil street	1st tap after OHT at Vadakku vellur Iyyappan kovil street	Last tap at Iyyappan kovil street	Bore well water as it falls in OHT at Alagunachiy amman kovil street	Bore well water from OHT at Alagunachiy amman kovil street	
Date of Receipt :29.08.2023 and 01.09.2023							
Source as per label							
Bacteriological Examination	Total colonies per ml on agar at 37°C	5			10	10	
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0	
	Rapid Test for E.Coli						
	Results of vibrio test						
Physical Examination	Colour	Sl. Whitish			Sl. Whitish	Sl. Whitish	
	Turbidity (Units)	7			7	7	
	Smell	None			None	None	
Chemical Examination (in mg/l).	Total Solids	180			440	470	
	Carbonate hardness as CaCO ₃	44			168	172	
	Non- Carbonate hardness as CaCO ₃	24			44	40	
	Total hardness as CaCO ₃	68			212	212	
	Chloride as Chlorine	16			32	32	
	Ammoniacal nitrogen	--			--	--	
	Albuminoid nitrogen	--			--	--	
	Oxygen absorbed (Tidy's test)	0.32			0.4	0.4	
	Nitrate-nitrogen	0.5			0.5	0.5	
	Acidity as CaCO ₃	} Phenolphthalein	0			0	0
			} Methyl Orange	44			168
	Fluoride as Fluorine	0.1				0.2	0.2
	PH.	6.5			7.4	7.6	
	Iron as Fe Total		0.8			0.6	0.6
		Ferrous					
	Manganese as Mn.						
	Qualitative- Nitrite nitrogen		Trace			Trace	Trace
	Sulphate		Trace			Trace	Trace
	Phosphate		Trace			Trace	Trace
	Toxic substances						
	Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)		250			630	670
	Microscopical Examination		Amorphous matter			Amorphous matter	Amorphous matter

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and

Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

RWS-72A RWS-72B RWS-73 RWS-74 RWS-74A

Date of Collection :28.08.2023		1st tap after Alagunachiy amman kovil street OHT	Last tap at Therku Vellur	Bore well water from as it falls in OHT at Muthumariy amman kovil street, Velikkoonan kurichi	Bore well water from OHT at Velikkoonan kurichi near Muthumariy amman kovil	1st tap after OHT at Velikkoonan kurichi	
Date of Receipt :29.08.2023 and 01.09.2023							
Source as per label							
Bacteriological Examination	Total colonies per ml on agar at 37°C			10	5		
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0	
	Rapid Test for E.Coli						
	Results of vibrio test						
Physical Examination	Colour			Colourless	Colourless		
	Turbidity (Units)			5	5		
	Smell			None	None		
Chemical Examination (in mg/l).	Total Solids			840	840		
	Carbonate hardness as CaCO ₃			152	148		
	Non- Carbonate hardness as CaCO ₃			232	236		
	Total hardness as CaCO ₃			384	384		
	Chloride as Chlorine			152	152		
	Ammoniacal nitrogen			--	--		
	Albuminoid nitrogen			--	--		
	Oxygen absorbed (Tidy's test)			0.48	0.4		
	Nitrate-nitrogen			1.0	1.0		
	Acidity	} Phenolphthalein Methyl Orange			0	0	
	as CaCO ₃				152	148	
	Fluoride as Fluorine			0.2	0.2		
	PH.			7.2	7.2		
	Iron as Fe Total			0.05	0.05		
	Ferrous						
	Manganese as Mn.						
	Qualitative- Nitrite nitrogen			Trace	Trace		
	Sulphate			Present	Present		
	Phosphate			Trace	Trace		
	Toxic substances						
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)			1200	1200			
Microscopical Examination			Amorphous matter	Amorphous matter			

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

		RWS-78	RWS-78A	RWS-78B	RWS-79	RWS-80
Date of Collection :30.08.2023						
Date of Receipt :31.08.2023 and 01.09.2023		Bore well water from OHT at NCV Nagar	1st tap after OHT at NCV Nagar	Last tap at Cuddalore main road	Bore well water from as it falls in OHT at Muslim Colony, NRC Nagar	Bore well water from OHT at Muslim Colony, NRC Nagar
Source as per label						
Bacteriological Examination	Total colonies per ml on agar at 37°C	5			10	0
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0
	Rapid Test for E.Coli					
	Results of vibrio test					
Physical Examination	Colour	Sl. Whitish			Sl. Whitish	Sl. Whitish
	Turbidity (Units)	7			7	7
	Smell	None			None	Chlorinous (2.0 ppm)
Chemical Examination (in mg/l).	Total Solids	300			550	530
	Carbonate hardness as CaCO ₃	120			156	156
	Non- Carbonate hardness as CaCO ₃	16			112	108
	Total hardness as CaCO ₃	136			268	264
	Chloride as Chlorine	24			54	54
	Ammoniacal nitrogen	--			--	--
	Albuminoid nitrogen	--			--	--
	Oxygen absorbed (Tidy's test)	0.32			0.32	0.0
	Nitrate-nitrogen	1.0			1.0	0.5
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange	0			0	0
		120			156	156
	Fluoride as Fluorine	0.2			0.2	0.2
	PH.	6.8			6.8	7.2
	Iron as Fe Total	0.3			0.8	0.8
	Ferrous					
	Manganese as Mn.					
	Qualitative-					
	Nitrite nitrogen	Trace			Trace	Nil
	Sulphate	Trace			Trace	Trace
	Phosphate	Trace			Trace	Trace
	Toxic substances					
	Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)	430			780	760
Microscopical Examination	Amorphous matter			Amorphous matter	Amorphous matter	

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

RWS-80A RWS-80B RWS-81 RWS-82 RWS-82A

Date of Collection :30.08.2023		1st tap after OHT at Muslim Colony, NRC Nagar	Last tap at Kareem Sandhu Street	Bore well water from as if falls in OHT at Palayathanda vankuppam	Bore well water from OHT AT Palayathanda vankuppam	1st tap after OHT at Palayathandava nkuppam	
Date of Receipt :31.08.2023 and 01.09.2023							
Source as per label							
Bacteriological Examination	Total colonies per ml on agar at 37°C			5	0		
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0	
	Rapid Test for E.Coli						
	Results of vibrio test						
Physical Examination	Colour			Colourless	Colourless		
	Turbidity (Units)			5	5		
	Smell			None	Chlorinous (2 ppm)		
Chemical Examination (in mg/l).	Total Solids			220	180		
	Carbonate hardness as CaCO ₃			100	82		
	Non- Carbonate hardness as CaCO ₃			8	14		
	Total hardness as CaCO ₃			108	96		
	Chloride as Chlorine			14	12		
	Ammoniacal nitrogen			--	--		
	Albuminoid nitrogen			--	--		
	Oxygen absorbed (Tidy's test)			0.4	0.0		
	Nitrate-nitrogen			3.0	2.0		
	Acidity as CaCO ₃	Phenolphthalein			0	0	
			Methyl Orange			100	82
	Fluoride as Fluorine			1.0	0.1		
	PH.			6.7	7.5		
	Iron as Fe Total	Ferrous			0.2	0.1	
	Manganese as Mn.						
	Qualitative- Nitrite nitrogen				Trace	Nil	
	Sulphate				Trace	Trace	
	Phosphate				Trace	Trace	
	Toxic substances						
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)				320	260		
Microscopical Examination				Amorphous matter	Amorphous matter		

RESULTS OF EXAMINATION OF SAMPLES OF WATER**From: The NLC Special Camp at Neyveli, Cuddalore District.****Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I**

RWS-82B RWS-83 RWS-84 RWS-85 RWS-85A

Date of Collection :30.08.2023		Last tap at Palayathan davankuppam	Bore well water from direct at Odaithandavan kuppam	Bore well water as it falls in OHT at AG puram	Bore well water from OHT at AG puram	1st tap after OHT at AG puram
Date of Receipt :31.08.2023 and 01.09.2023						
Source as per label						
Bacteriological Examination	Total colonies per ml on agar at 37°C		10	10	0	
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0
	Rapid Test for E.Coli					
	Results of vibrio test					
Physical Examination	Colour		Colourless	Colourless	Colourless	
	Turbidity (Units)		5	5	5	
	Smell		None	None	Chlorinous (2 ppm)	
Chemical Examination (in mg/l).	Total Solids		250	130	200	
	Carbonate hardness as CaCO ₃		104	53	80	
	Non- Carbonate hardness as CaCO ₃		6	3	16	
	Total hardness as CaCO ₃		110	56	96	
	Chloride as Chlorine		16	7	14	
	Ammoniacal nitrogen		--	--	--	
	Albuminoid nitrogen		--	--	--	
	Oxygen absorbed (Tidy's test)		0.4	0.24	0.0	
	Nitrate-nitrogen		1.0	1.0	2.0	
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange		0	0	0	
			104	53	80	
	Fluoride as Fluorine		0.1	0.2	0.1	
	PH.		6.8	6.5	6.8	
	Iron as Fe Total		0.2	0.05	0.05	
	Ferrous					
	Manganese as Mn.					
	Qualitative- Nitrite nitrogen		Trace	Trace	Nil	
	Sulphate		Trace	Trace	Trace	
	Phosphate		Trace	Trace	Trace	
	Toxic substances					
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)		360	180	290		
Microscopical Examination		Amorphous matter	Amorphous matter	Amorphous matter		

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

		RWS-85B	RWS- 86	RWS-87	RWS-88	RWS-88A
Date of Collection :30.08.2023						
Date of Receipt :31.08.2023 and 01.09.2023						
Source as per label		Last tap at AG puram main road	Bore well water from direct at Valayamadevi	Bore well water from as it falls in OHT at Tholkappiar street, Vadakku vellur	Bore well water from OHT at Tholkappiar street, Vadakku vellur	1st tap after OHT at Tholkappiar street, Vadakkuvellur
Bacteriological Examination	Total colonies per ml on agar at 37°C		10	10	5	
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0
	Rapid Test for E.Coli					
	Results of vibrio test					
Physical Examination	Colour		Sl. Whitish	Sl. Whitish	Sl. Whitish	
	Turbidity (Units)		7	7	7	
	Smell		None	None	None	
Chemical Examination (in mg/l).	Total Solids		650	300	330	
	Carbonate hardness as CaCO ₃		116	120	128	
	Non- Carbonate hardness as CaCO ₃		196	16	12	
	Total hardness as CaCO ₃		312	136	140	
	Chloride as Chlorine		96	24	26	
	Ammoniacal nitrogen		--	--	--	
	Albuminoid nitrogen		--	--	--	
	Oxygen absorbed (Tidy's test)		0.48	0.4	0.32	
	Nitrate-nitrogen		2.0	1.0	0.5	
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange		0	0	0	
			116	120	128	
	Fluoride as Fluorine		0.2	0.1	0.1	
	PH.		7.3	7.6	7.2	
	Iron as Fe Total		0.8	0.3	0.3	
		Ferrous				
	Manganese as Mn.					
	Qualitative-					
	Nitrite nitrogen		Trace	Trace	Trace	
	Sulphate		Trace	Trace	Trace	
	Phosphate		Trace	Trace	Trace	
Toxic substances						
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)		930	430	470		
Microscopical Examination		Amorphous matter	Amorphous matter	Amorphous matter		

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

RWS-88B RWS-89 RWS-90 RWS-90A RWS-90B

Date of Collection :30.08.2023		Last tap at Arunthadiyar street	Bore well water as it falls in OHT at Thoppuli kuppam	Bore well water from OHT at Thoppuli kuppam	1st tap at Colony street	Last tap west street	
Date of Receipt :31.08.2023 and 01.09.2023							
Source as per label							
Bacteriological Examination	Total colonies per ml on agar at 37°C		10	10			
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0	
	Rapid Test for E.Coli						
	Results of vibrio test						
Physical Examination	Colour		Colourless	Colourless			
	Turbidity (Units)		5	5			
	Smell		None	None			
Chemical Examination (in mg/l).	Total Solids		160	400			
	Carbonate hardness as CaCO ₃		50	72			
	Non- Carbonate hardness as CaCO ₃		8	104			
	Total hardness as CaCO ₃		58	176			
	Chloride as Chlorine		10	48			
	Ammoniacal nitrogen		--	--			
	Albuminoid nitrogen		--	--			
	Oxygen absorbed (Tidy's test)		0.32	0.4			
	Nitrate-nitrogen		3.0	1.0			
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange		0	0			
			50	72			
	Fluoride as Fluorine		0.1	0.1			
	PH.		6.5	6.6			
	Iron as Fe Total		0.1	0.1			
		Ferrous					
	Manganese as Mn.						
	Qualitative- Nitrite nitrogen			Trace	Trace		
	Sulphate			Trace	Trace		
	Phosphate			Trace	Trace		
Toxic substances							
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)			230	570			
Microscopical Examination			Amorphous matter	Amorphous matter			

RESULTS OF EXAMINATION OF SAMPLES OF WATER**From: The NLC Special Camp at Neyveli, Cuddalore District.****Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I**

		RWS-91	RWS-92	RWS-92A	RWS-92B	RWS-93
Date of Collection :30.08.2023		Bore well water from as it falls in OHT at Ammeri	Bore well water from OHT at Ammeri	1st tap after OHT at Ammeri	Last tap at North street	Bore well water from as it falls in OHT at Ammeri Kokkankuppam
Date of Receipt :31.08.2023 and 01.09.2023						
Source as per label						
Bacteriological Examination	Total colonies per ml on agar at 37°C	10	10			5
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0
	Rapid Test for E.Coli					
	Results of vibrio test					
Physical Examination	Colour	Colourless	Colourless			Colourless
	Turbidity (Units)	5	5			5
	Smell	None	None			None
Chemical Examination (in mg/l).	Total Solids	300	300			150
	Carbonate hardness as CaCO ₃	56	56			52
	Non- Carbonate hardness as CaCO ₃	52	52			6
	Total hardness as CaCO ₃	108	108			58
	Chloride as Chlorine	38	38			10
	Ammoniacal nitrogen	--	--			--
	Albuminoid nitrogen	--	--			--
	Oxygen absorbed (Tidy's test)	0.32	0.32			0.24
	Nitrate-nitrogen	1.0	1.0			3.0
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange	0	0			0
		56	56			52
	Fluoride as Fluorine	0.2	0.1			0.1
	PH.	7.5	7.5			6.5
	Iron as Fe Total	0.1	0.1			0.05
	Ferrous					
	Manganese as Mn.					
	Qualitative- Nitrite nitrogen	Trace	Trace			Trace
	Sulphate	Trace	Trace			Trace
	Phosphate	Trace	Trace			Trace
	Toxic substances					
	Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)	430	430			210
Microscopical Examination	Amorphous matter	Amorphous matter			Amorphous matter	

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

		RWS-94	RWS-94A	RWS-94B	RWS-95	RWS-96
Date of Collection :30.08.2023						
Date of Receipt :31.08.2023 and 01.09.2023						
Source as per label		Bore well water from OHT at Ammeri Kokkankuppam	1st tap after OHT at A.Kokkan kuppam Mariyamman kovil street	Last tap at South street	Bore well water as it falls in OHT at A.Kakkan kuppam East street	Bore well water from OHT AT A.Kokkan kuppam east street
Bacteriological Examination	Total colonies per ml on agar at 37°C	10			10	10
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0
	Rapid Test for E.Coli					
	Results of vibrio test					
Physical Examination	Colour	Colourless			Colourless	Colourless
	Turbidity (Units)	5			5	5
	Smell	None			None	None
Chemical Examination (in mg/l).	Total Solids	150			190	180
	Carbonate hardness as CaCO ₃	52			60	60
	Non- Carbonate hardness as CaCO ₃	6			2	2
	Total hardness as CaCO ₃	58			62	62
	Chloride as Chlorine	10			12	14
	Ammoniacal nitrogen	--			--	--
	Albuminoid nitrogen	--			--	--
	Oxygen absorbed (Tidy's test)	0.24			0.32	0.4
	Nitrate-nitrogen	1.0			2.0	3.0
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange	0			0	0
		52			60	60
	Fluoride as Fluorine	0.2			0.2	0.2
	PH.	6.5			7.7	7.1
	Iron as Fe Total	0.05			0.05	0.2
	Ferrous					
	Manganese as Mn.					
	Qualitative- Nitrite nitrogen	Trace			Trace	Trace
	Sulphate	Trace			Trace	Trace
	Phosphate	Trace			Trace	Trace
	Toxic substances					
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)	210			270	260	
Microscopical Examination	Amorphous matter			Amorphous matter	Amorphous matter	

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

RWS-96A RWS-96B RWS-97 RWS-98 RWS-98A

Date of Collection :30.08.2023						
Date of Receipt :31.08.2023 and 01.09.2023						
Source as per label		1st tap at East street	Last tap at West street	Bore well water from as it falls in OHT at Kolliruppu	Bore well water from OHT at Kolliruppu	1st tap at Dhandapani kovil street
Bacteriological Examination	Total colonies per ml on agar at 37°C			10	5	
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0
	Rapid Test for E.Coli					
	Results of vibrio test					
Physical Examination	Colour			Colourless	Colourless	
	Turbidity (Units)			5	5	
	Smell			None	None	
Chemical Examination (in mg/l).	Total Solids			110	160	
	Carbonate hardness as CaCO ₃			30	64	
	Non- Carbonate hardness as CaCO ₃			1	8	
	Total hardness as CaCO ₃			31	72	
	Chloride as Chlorine			6	16	
	Ammoniacal nitrogen			--	--	
	Albuminoid nitrogen			--	--	
	Oxygen absorbed (Tidy's test)			0.48	0.32	
	Nitrate-nitrogen			3.0	3.0	
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange			0	0	
				30	64	
	Fluoride as Fluorine			0.1	0.2	
	PH.			6.6	7.7	
	Iron as Fe Total			0.05	0.05	
		Ferrous				
	Manganese as Mn.					
	Qualitative-					
	Nitrite nitrogen			Trace	Trace	
	Sulphate			Trace	Trace	
	Phosphate			Trace	Trace	
Toxic substances						
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)			150	230		
Microscopical Examination			Amorphous matter	Amorphous matter		

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

RWS-98B RWS-99 RWS-100 RWS-100A RWS-100B

Date of Collection :30.08.2023		Last tap at Dhandapani kovil street	Bore well water from as it falls in OHT at Kaikkila kuppam	Bore well water from OHT at Kaikkila kuppam	1st tap at North street	Last tap at South street
Date of Receipt :31.08.2023 and 01.09.2023						
Source as per label						
Bacteriological Examination	Total colonies per ml on agar at 37°C		5	10		
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0
	Rapid Test for E.Coli					
	Results of vibrio test					
Physical Examination	Colour		Colourless	Colourless		
	Turbidity (Units)		5	5		
	Smell		None	None		
Chemical Examination (in mg/l).	Total Solids		190	130		
	Carbonate hardness as CaCO ₃		82	60		
	Non- Carbonate hardness as CaCO ₃		6	10		
	Total hardness as CaCO ₃		88	70		
	Chloride as Chlorine		14	7		
	Ammoniacal nitrogen		--	--		
	Albuminoid nitrogen		--	--		
	Oxygen absorbed (Tidy's test)		0.32	0.24		
	Nitrate-nitrogen		3.0	3.0		
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange		0	0		
			82	60		
	Fluoride as Fluorine		0.2	0.1		
	PH.		7.4	7.4		
	Iron as Fe Total		0.05	0.05		
	Ferrous					
	Manganese as Mn.					
	Qualitative- Nitrite nitrogen		Trace	Trace		
	Sulphate		Trace	Trace		
	Phosphate		Trace	Trace		
	Toxic substances					
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)		270	190			
Microscopical Examination		Amorphous matter	Amorphous matter			

RESULTS OF EXAMINATION OF SAMPLES OF WATER**From: The NLC Special Camp at Neyveli, Cuddalore District.****Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and****Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I****RWS-101 RWS-102 RWS-102A RWS-102B RWS-103**

Date of Collection :30.08.2023		Bore well water from as it falls in OHT at Chinna kappankulam	Bore well water from OHT at Chinna kappankulam	1st tap at West street	Last tap at East street	Bore well water as it falls in OHT at Periyakappan kulam
Date of Receipt :31.08.2023 and 01.09.2023						
Source as per label						
Bacteriological Examination	Total colonies per ml on agar at 37°C	10	10			5
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0
	Rapid Test for E.Coli					
	Results of vibrio test					
Physical Examination	Colour	Colourless	Colourless			Colourless
	Turbidity (Units)	5	5			5
	Smell	None	None			None
Chemical Examination (in mg/l).	Total Solids	110	170			160
	Carbonate hardness as CaCO ₃	55	70			70
	Non- Carbonate hardness as CaCO ₃	6	4			4
	Total hardness as CaCO ₃	61	74			74
	Chloride as Chlorine	14	11			11
	Ammoniacal nitrogen	--	--			--
	Albuminoid nitrogen	--	--			--
	Oxygen absorbed (Tidy's test)	0.24	0.4			0.32
	Nitrate-nitrogen	2.0	2.0			2.0
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange	0	0			0
		55	70			70
	Fluoride as Fluorine	0.1	0.1			0.1
	PH.	6.8	7.1			7.3
	Iron as Fe Total	0.05	0.05			0.05
	Ferrous					
	Manganese as Mn.					
	Qualitative- Nitrite nitrogen	Trace	Trace			Trace
	Sulphate	Trace	Trace			Trace
	Phosphate	Trace	Trace			Trace
	Toxic substances					
	Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)	160	240			230
	Microscopical Examination	Amorphous matter	Amorphous matter			Amorphous matter

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and

Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

RWS-104 RWS-104A RWS-104B RWS-105 RWS-106

Date of Collection :30.08.2023		Bore well water from OHT at Periyakappan kulam	1st tap at Karanthai Iyanar kovil street	Last tap at Middle street	Bore well water as it falls in OHT at P.Veeratti kuppam	Bore well water from OHT at P.Veeratti kuppam
Date of Receipt :31.08.2023 and 01.09.2023						
Source as per label						
Bacteriological Examination	Total colonies per ml on agar at 37°C	5			5	10
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0
	Rapid Test for E.Coli					
	Results of vibrio test					
Physical Examination	Colour	Colourless			Colourless	Colourless
	Turbidity (Units)	5			5	5
	Smell	None			None	None
Chemical Examination (in mg/l).	Total Solids	160			190	340
	Carbonate hardness as CaCO ₃	58			62	128
	Non- Carbonate hardness as CaCO ₃	4			2	0
	Total hardness as CaCO ₃	62			64	128
	Chloride as Chlorine	15			16	22
	Ammoniacal nitrogen	--			--	--
	Albuminoid nitrogen	--			--	--
	Oxygen absorbed (Tidy's test)	0.4			0.4	0.32
	Nitrate-nitrogen	3.0			0.5	0.5
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange	0			0	0
		58			62	152
	Fluoride as Fluorine	0.1			0.2	0.2
	PH.	7.9			7.5	6.9
	Iron as Fe Total	0.05			0.05	0.05
	Ferrous					
	Manganese as Mn.					
	Qualitative- Nitrite nitrogen	Trace			Trace	Trace
	Sulphate	Trace			Trace	Trace
	Phosphate	Trace			Trace	Trace
	Toxic substances					
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)	230			270	490	
Microscopical Examination	Amorphous matter			Amorphous matter	Amorphous matter	

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

RWS-106A RWS-106B RWS-107 RWS-108 RWS-109

Date of Collection :30.08.2023		1st tap at North street	Last tap at Sivan kovil	Bore well water from tap at P.Kolliruppu	Bore well water as it falls in OHT at Melakuppam	Bore well water as it falls in OHT at Mudhanai	
Date of Receipt :31.08.2023 and 01.09.2023							
Source as per label							
Bacteriological Examination	Total colonies per ml on agar at 37°C			0	70	100	
	MPN of Coliform bacteria per 100 ml.	0	0	0	210	210	
	Rapid Test for E.Coli				Negative	Negative	
	Results of vibrio test						
Physical Examination	Colour			Colourless	Colourless	Colourless	
	Turbidity (Units)			5	5	5	
	Smell			Chlorinous (2 ppm)	None	None	
Chemical Examination (in mg/l).	Total Solids			340	210	200	
	Carbonate hardness as CaCO ₃			128	60	60	
	Non- Carbonate hardness as CaCO ₃			0	12	10	
	Total hardness as CaCO ₃			128	72	70	
	Chloride as Chlorine			22	20	22	
	Ammoniacal nitrogen			--	--	--	
	Albuminoid nitrogen			--	--	--	
	Oxygen absorbed (Tidy's test)			0.0	0.32	0.32	
	Nitrate-nitrogen			1.0	3.0	2.0	
	Acidity as CaCO ₃	Phenolphthalein Methyl Orange			0	0	0
					152	60	60
	Fluoride as Fluorine			0.1	0.2	0.2	
	PH.			6.9	6.5	7.3	
	Iron as Fe Total	Ferrous			0.05	0.05	0.05
	Manganese as Mn.						
	Qualitative- Nitrite nitrogen				Nil	Trace	Trace
	Sulphate				Trace	Trace	Trace
	Phosphate				Trace	Trace	Trace
	Toxic substances						
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)				490	300	290	
Microscopical Examination				Amorphous matter	Monas & Amorphous matter	Monas, Colpoda, Philodina & Amorphous matter	

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and

Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

RWS-115 RWS-116 RWS-117 RWS-117A RWS-118

Date of Collection :30.08.2023		Bore well water from as it falls in OHT at Kaattu kkuoonan kurichi, near Panchayat Union Office	Bore well water from as it falls in OHT at Kaattu kkuoonan kurichi (No.2)	Bore well water as it falls in OHT at Keelakkollai	Tap at Kaaman kovil street	Bore well water as it falls in OHT in Meelakkollai, near Murugan kovil street	
Date of Receipt :31.08.2023 and 01.09.2023							
Source as per label							
Bacteriological Examination	Total colonies per ml on agar at 37°C	90	100	70		100	
	MPN of Coliform bacteria per 100 ml.	210	240	210	>16	150	
	Rapid Test for E.Coli	Negative	Negative	Negative	Negative	Negative	
	Results of vibrio test						
Physical Examination	Colour	Colourless	Colourless	Colourless		Colourless	
	Turbidity (Units)	5	5	5		5	
	Smell	None	None	None		None	
Chemical Examination (in mg/l).	Total Solids	220	740	770		470	
	Carbonate hardness as CaCO ₃	60	60	64		172	
	Non- Carbonate hardness as CaCO ₃	12	260	264		0	
	Total hardness as CaCO ₃	72	320	328		172	
	Chloride as Chlorine	24	104	108		64	
	Ammoniacal nitrogen	--	--	--		--	
	Albuminoid nitrogen	--	--	--		--	
	Oxygen absorbed (Tidy's test)	0.32	0.4	0.48		0.4	
	Nitrate-nitrogen	2.0	2.0	3.0		2.0	
	Acidity as CaCO ₃	} Phenolphthalein	0	0	0		0
			} Methyl Orange	60	60	64	
	Fluoride as Fluorine	0.1		0.2	0.2		0.1
	PH.	6.8	6.7	6.5		7.7	
	Iron as Fe Total	0.05	0.05	0.05		0.05	
	Ferrous						
	Manganese as Mn.						
	Qualitative- Nitrite nitrogen	Trace	Trace	Trace		Trace	
	Sulphate	Trace	Present	Present		Trace	
	Phosphate	Trace	Trace	Trace		Trace	
	Toxic substances						
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)	320	1060	1100		670		
Microscopical Examination	Monas & Amorphous matter	Monas & Amorphous matter	Monas & Amorphous matter		Monas & Amorphous matter		

RESULTS OF EXAMINATION OF SAMPLES OF WATER
From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
 Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

RWS-118A RWS-119 RWS-119A RWS-120 RWS-120A

Date of Collection :31.08.2023
 Date of Receipt :01.09.2023
 Source as per label

	Tap at East street	Bore well water as it falls in OHT at Thoppukkollai	Tap at Thoppukkollai	Bore well water as it falls in OHT in Marungur	Tap at Marungur main road	
Bacteriological Examination	Total colonies per ml on agar at 37°C	100		100		
	MPN of Coliform bacteria per 100 ml.	>16	>1100	>16	>1100	
	Rapid Test for E.Coli	Negative	Negative	Negative	Negative	
	Results of vibrio test					
Physical Examination	Colour	Colourless		Colourless		
	Turbidity (Units)	5		5		
	Smell	None		None		
		110		90		
Chemical Examination (in mg/l).	Total Solids	22		11		
	Carbonate hardness as CaCO ₃	16		7		
	Non- Carbonate hardness as CaCO ₃	38		18		
	Total hardness as CaCO ₃	14		7		
	Chloride as Chlorine	--		--		
	Ammoniacal nitrogen	--		--		
	Albuminoid nitrogen	0.32		0.72		
	Oxygen absorbed (Tidy's test)	2.0		6.0		
	Nitrate-nitrogen	0		0		
	Acidity	} Phenolphthalein	22		11	
			} Methyl Orange	0.1		0.1
	Fluoride as Fluorine	6.5			6.5	
	PH.	0.05		0.05		
	Iron as Fe Total					
	Ferrous					
	Manganese as Mn.					
	Qualitative- Nitrite nitrogen		Trace		Trace	
	Sulphate		Trace		Trace	
	Phosphate		Trace		Trace	
	Toxic substances					
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)		160		130		
Microscopical Examination		Monas, Philodina & Amorphous matter		Monas & Amorphous matter		

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

**Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I**

RWS-121 RWS-121A RWS-122 RWS-122A RWS-123

Date of Collection : 31.08.2023		Bore well water as it falls in OHT in Keelakuppam	Tap at Mariyamman kovil street	Bore well water as it falls in OHT at Manadi kuppam	Tap at North street (Yerivazhi)	Bore well water as it falls in OHT at Vallam
Date of Receipt : 01.09.2023						
Source as per label						
Bacteriological Examination	Total colonies per ml on agar at 37°C	100		5		200
	MPN of Coliform bacteria per 100 ml.	>1100	>16	0	0	>1100
	Rapid Test for E.Coli	Negative	Negative			Negative
	Results of vibrio test					
Physical Examination	Colour	Colourless		Colourless		Colourless
	Turbidity (Units)	5		5		5
	Smell	None		None		None
Chemical Examination (in mg/l).	Total Solids	510		150		110
	Carbonate hardness as CaCO ₃	184		68		34
	Non- Carbonate hardness as CaCO ₃	0		4		8
	Total hardness as CaCO ₃	184		72		42
	Chloride as Chlorine	68		11		10
	Ammoniacal nitrogen	--		--		--
	Albuminoid nitrogen	--		--		--
	Oxygen absorbed (Tidy's test)	0.56		0.32		0.88
	Nitrate-nitrogen	3.0		6.0		3.0
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange	0		0		0
		188		68		34
	Fluoride as Fluorine	0.2		0.1		0.1
	PH.	7.5		6.8		6.6
	Iron as Fe Total	0.05		0.05		0.05
	Ferrous					
	Manganese as Mn.					
	Qualitative- Nitrite nitrogen	Trace		Trace		Trace
	Sulphate	Trace		Trace		Trace
	Phosphate	Trace		Trace		Trace
	Toxic substances					
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)	730		210		160	
Microscopical Examination	Amorphous matter		Amorphous matter		Monas & Amorphous matter	

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and

Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

RWS-123A RWS-124 RWS-124A RWS-125 RWS-125A

Date of Collection : 31.08.2023		Tap at South street	Bore well water as it falls in OHT at Periyankuppam	Tap at Ambedkar street	Bore well water as it falls in OHT at Melkangeyan kuppam	Tap at Angalamman kovil street
Date of Receipt : 01.09.2023						
Source as per label						
Bacteriological Examination	Total colonies per ml on agar at 37°C		5		200	
	MPN of Coliform bacteria per 100 ml.	>16	0	0	>1100	>16
	Rapid Test for E.Coli	Negative			Negative	Negative
	Results of vibrio test					
Physical Examination	Colour		Colourless		Colourless	
	Turbidity (Units)		5		5	
	Smell		None		None	
Chemical Examination (in mg/l).	Total Solids		120		90	
	Carbonate hardness as CaCO ₃		34		30	
	Non- Carbonate hardness as CaCO ₃		8		8	
	Total hardness as CaCO ₃		42		38	
	Chloride as Chlorine		11		9	
	Ammoniacal nitrogen		--		--	
	Albuminoid nitrogen		--		--	
	Oxygen absorbed (Tidy's test)		0.4		0.72	
	Nitrate-nitrogen		3.0		2.0	
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange		0		0	
			34		30	
	Fluoride as Fluorine		0.1		0.1	
	PH.		6.7		6.6	
	Iron as Fe Total		0.05		0.05	
	Ferrous					
	Manganese as Mn.					
	Qualitative- Nitrite nitrogen		Trace		Trace	
	Sulphate		Trace		Trace	
	Phosphate		Trace		Trace	
	Toxic substances					
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)		170		130		
Microscopical Examination		Amorphous matter		Monas & Amorphous matter		

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

**Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I**

RWS-126 RWS-126A RWS-127 RWS-127A RWS-128

Date of Collection :31.08.2023		Bore well water as it falls in OHT at Semman kuppam	Tap at South street	Bore well water as it falls in OHT at Sorathur	Tap at Amman kovil street	Bore well water from direct at Nandukkuzhi
Date of Receipt : 01.09.2023						
Source as per label						
Bacteriological Examination	Total colonies per ml on agar at 37°C	10		10		5
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0
	Rapid Test for E.Coli					
	Results of vibrio test					
Physical Examination	Colour	Colourless		Colourless		Colourless
	Turbidity (Units)	5		5		5
	Smell	None		None		None
Chemical Examination (in mg/l).	Total Solids	110		130		110
	Carbonate hardness as CaCO ₃	38		40		28
	Non- Carbonate hardness as CaCO ₃	10		9		8
	Total hardness as CaCO ₃	48		49		36
	Chloride as Chlorine	12		13		13
	Ammoniacal nitrogen	--		--		--
	Albuminoid nitrogen	--		--		--
	Oxygen absorbed (Tidy's test)	0.4		0.32		0.4
	Nitrate-nitrogen	3.0		3.0		3.0
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange	0		0		0
		38		40		28
	Fluoride as Fluorine	0.2		0.2		0.2
	PH.	6.6		6.7		6.6
	Iron as Fe Total	0.05		0.05		0.05
	Ferrous					
	Manganese as Mn.					
	Qualitative- Nitrite nitrogen	Trace		Trace		Trace
	Sulphate	Trace		Trace		Trace
	Phosphate	Trace		Trace		Trace
	Toxic substances					
	Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)	160		180		150
	Microscopical Examination	Amorphous matter		Amorphous matter		Amorphous matter

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and

Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

RWS-128A RWS-129 RWS-129A RWS-130 RWS-130A

Date of Collection : 31.08.2023		Tap at East street	Bore well water as it falls in OHT at CR Colony G Block	Tap at G block	Bore well water as it falls in OHT at Veerasingan kuppam	Tap at South street
Date of Receipt : 01.09.2023						
Source as per label						
Bacteriological Examination	Total colonies per ml on agar at 37°C		90		10	
	MPN of Coliform bacteria per 100 ml.	0	460	>16	0	0
	Rapid Test for E.Coli		Negative	Negative		
	Results of vibrio test					
Physical Examination	Colour		Colourless		Colourless	
	Turbidity (Units)		5		5	
	Smell		None		None	
Chemical Examination (in mg/l).	Total Solids		110		110	
	Carbonate hardness as CaCO ₃		26		26	
	Non- Carbonate hardness as CaCO ₃		12		12	
	Total hardness as CaCO ₃		38		38	
	Chloride as Chlorine		12		11	
	Ammoniacal nitrogen		--		--	
	Albuminoid nitrogen		--		--	
	Oxygen absorbed (Tidy's test)		0.56		0.48	
	Nitrate-nitrogen		3.0		3.0	
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange		0		0	
			26		26	
	Fluoride as Fluorine		0.2		0.1	
	PH.		6.5		6.5	
	Iron as Fe Total		0.05		0.05	
	Ferrous					
	Manganese as Mn.					
	Qualitative- Nitrite nitrogen		Trace		Trace	
	Sulphate		Trace		Trace	
	Phosphate		Trace		Trace	
	Toxic substances					
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)			150		150	
Microscopical Examination			Amorphous matter		Amorphous matter	

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

**Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I**

RWS-131 RWS-131A RWS-132 RWS-132A RWS-133

Date of Collection :31.08.2023		Bore well water as it falls in OHT at Muthandi kuppam	Tap at Neyveli road	Bore well water as it falls in OHT at CR colony, B-block	Tap at B block	Borewell water as it falls in OHT at Phase II, A Block Neyveli quarters
Date of Receipt : 01.09.2023						
Source as per label						
Bacteriological Examination	Total colonies per ml on agar at 37°C	10		10		10
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0
	Rapid Test for E.Coli					
	Results of vibrio test					
Physical Examination	Colour	Sl. Whitish		Colourless		Colourless
	Turbidity (Units)	5		5		5
	Smell	None		None		None
Chemical Examination (in mg/l).	Total Solids	180		120		180
	Carbonate hardness as CaCO ₃	38		30		40
	Non- Carbonate hardness as CaCO ₃	30		10		26
	Total hardness as CaCO ₃	68		40		66
	Chloride as Chlorine	23		14		23
	Ammoniacal nitrogen	--		--		--
	Albuminoid nitrogen	--		--		--
	Oxygen absorbed (Tidy's test)	0.32		0.32		0.4
	Nitrate-nitrogen	3.0		3.0		3.0
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange	0		0		0
		38		30		40
	Fluoride as Fluorine	0.1		0.2		0.2
	PH.	6.8		6.6		6.7
	Iron as Fe Total	0.3		0.1		0.1
	Ferrous					
	Manganese as Mn.					
	Qualitative- Nitrite nitrogen	Trace		Trace		Trace
	Sulphate	Trace		Trace		Trace
	Phosphate	Trace		Trace		Trace
	Toxic substances					
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)	260		170		260	
Microscopical Examination	Amorphous matter		Amorphous matter		Amorphous matter	

RESULTS OF EXAMINATION OF SAMPLES OF WATER**From: The NLC Special Camp at Neyveli, Cuddalore District.****Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I**

RWS-133A RWS-134 RWS-134A RWS-135 RWS-135A

Date of Collection :31.08.2023		Tap at Phase II, A block	Bore well water as it falls in OHT, near Neyveli PHC	Tap at PHC street	Bore well water from direct supply from NLC at Vanathiraya puram	Tap at Pinnaachi kuppam	
Date of Receipt : 01.09.2023							
Source as per label							
Bacteriological Examination	Total colonies per ml on agar at 37°C		5		10		
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0	
	Rapid Test for E.Coli						
	Results of vibrio test						
Physical Examination	Colour		Colourless		Colourless		
	Turbidity (Units)		5		5		
	Smell		None		None		
Chemical Examination (in mg/l).	Total Solids		130		90		
	Carbonate hardness as CaCO ₃		32		20		
	Non- Carbonate hardness as CaCO ₃		10		12		
	Total hardness as CaCO ₃		42		32		
	Chloride as Chlorine		15		12		
	Ammoniacal nitrogen		--		--		
	Albuminoid nitrogen		--		--		
	Oxygen absorbed (Tidy's test)		0.32		0.4		
	Nitrate-nitrogen		3.0		3.0		
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange		0		0		
			32		20		
	Fluoride as Fluorine		0.2		0.2		
	PH.		6.7		6.6		
	Iron as Fe Total		0.2		0.05		
	Ferrous						
	Manganese as Mn.						
	Qualitative- Nitrite nitrogen			Trace		Trace	
	Sulphate			Trace		Trace	
	Phosphate			Trace		Trace	
	Toxic substances						
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)			180		130		
Microscopical Examination			Amorphous matter		Amorphous matter		

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and
Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

RWS-136 RWS-136A RWS-137 RWS-137A RWS-138

Date of Collection :31.08.2023		Bore well water as it falls in OHT at Thenkuthu	Tap in Middle street, near Xerox shop	Bore well water direct supply from NLC at Kallukuzhi	Tap at Thenkuthu Pudu Nagar	Bore well water from OHT at Kaattukkollai
Date of Receipt : 01.09.2023						
Source as per label						
Bacteriological Examination	Total colonies per ml on agar at 37°C	5		10		10
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0
	Rapid Test for E.Coli					
	Results of vibrio test					
Physical Examination	Colour	Colourless		Colourless		Colourless
	Turbidity (Units)	5		5		5
	Smell	None		None		None
Chemical Examination (in mg/l).	Total Solids	100		110		130
	Carbonate hardness as CaCO ₃	22		24		18
	Non- Carbonate hardness as CaCO ₃	10		10		26
	Total hardness as CaCO ₃	32		34		44
	Chloride as Chlorine	12		13		23
	Ammoniacal nitrogen	--		--		--
	Albuminoid nitrogen	--		--		--
	Oxygen absorbed (Tidy's test)	0.32		0.24		0.4
	Nitrate-nitrogen	2.0		1.0		2.0
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange	0		0		0
		22		24		18
	Fluoride as Fluorine	0.2		0.2		0.2
	PH.	6.7		6.6		6.8
	Iron as Fe Total	0.05		0.05		0.05
	Ferrous					
	Manganese as Mn.					
	Qualitative- Nitrite nitrogen	Trace		Trace		Trace
	Sulphate	Trace		Trace		Trace
	Phosphate	Trace		Trace		Trace
	Toxic substances					
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)	140		150		190	
Microscopical Examination	Amorphous matter		Amorphous matter		Amorphous matter	

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The NLC Special Camp at Neyveli, Cuddalore District.

Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and

Thiru. K. Mohammed Sheik Dawood, H.I. Gr. I

RWS-138A RWS-139 RWS-139A RWS-140 RWS-140A

Date of Collection : 31.08.2023		Tap at Railway station road	Bore well water as it falls in OHT at Karunguli	Tap at Perumal kovil street	Bore well water as it falls in OHT in Kolakkudi	Tap at Panchayat Union Middle School, Kolakkudi	
Date of Receipt : 01.09.2023							
Source as per label							
Bacteriological Examination	Total colonies per ml on agar at 37°C		5		10		
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0	
	Rapid Test for E.Coli						
	Results of vibrio test						
Physical Examination	Colour		Colourless		Colourless		
	Turbidity (Units)		5		5		
	Smell		None		None		
Chemical Examination (in mg/l).	Total Solids		130		290		
	Carbonate hardness as CaCO ₃		16		38		
	Non- Carbonate hardness as CaCO ₃		26		52		
	Total hardness as CaCO ₃		42		90		
	Chloride as Chlorine		24		53		
	Ammoniacal nitrogen		--		--		
	Albuminoid nitrogen		--		--		
	Oxygen absorbed (Tidy's test)		0.4		0.48		
	Nitrate-nitrogen		3.0		0.5		
	Acidity	}	Phenolphthalein Methyl Orange	0		0	
	as CaCO ₃			16		38	
	Fluoride as Fluorine			0.2		0.6	
	PH.			6.6		6.5	
	Iron as Fe Total			0.05		0.05	
	Ferrous						
	Manganese as Mn.						
	Qualitative- Nitrite nitrogen			Trace		Trace	
	Sulphate			Trace		Trace	
	Phosphate			Trace		Trace	
	Toxic substances						
Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)			190		420		
Microscopical Examination			Amorphous matter		Amorphous matter		

RESULTS OF EXAMINATION OF SAMPLES OF WATER**From: The NLC Special Camp at Neyveli, Cuddalore District.****Collected by: Thiru.S. Kesavan, Dy.CWA, Thiru. V. Boopathy, H.I Gr.I and Thiru. K.Mohammed Sheik Dawood, H.I.Gr. I****RWS-141 RWS-141A RWS-142 RWS-142A RWS-143**

Date of Collection : 31.08.2023		Bore well as it falls in OHT in Mettukuppam	Tap at School street	Bore well water as it falls in OHT near Sabai Bus stop	Tap at Sabai road	Bore well water as it falls in OHT near Vadalur PHC
Date of Receipt : 01.09.2023						
Source as per label						
Bacteriological Examination	Total colonies per ml on agar at 37°C	10		10		5
	MPN of Coliform bacteria per 100 ml.	0	0	0	0	0
	Rapid Test for E.Coli					
	Results of vibrio test					
Physical Examination	Colour	Colourless		Colourless		Colourless
	Turbidity (Units)	5		5		5
	Smell	None		None		None
Chemical Examination (in mg/l).	Total Solids	600		1050		450
	Carbonate hardness as CaCO ₃	80		120		120
	Non- Carbonate hardness as CaCO ₃	160		0		40
	Total hardness as CaCO ₃	240		120		160
	Chloride as Chlorine	172		168		56
	Ammoniacal nitrogen	--		--		--
	Albuminoid nitrogen	--		--		--
	Oxygen absorbed (Tidy's test)	0.48		0.48		0.4
	Nitrate-nitrogen	3.0		1.0		0.5
	Acidity } Phenolphthalein as CaCO ₃ } Methyl Orange	0		0		0
		80		268		120
	Fluoride as Fluorine	0.2		0.4		0.2
	PH.	6.9		7.0		7.0
	Iron as Fe Total	0.05		0.05		0.2
	Ferrous					
	Manganese as Mn.					
	Qualitative- Nitrite nitrogen	Trace		Trace		Trace
	Sulphate	Trace		Present		Trace
	Phosphate	Trace		Trace		Trace
	Toxic substances					
	Electrical conductivity (Reciprocal megohms/Cm ³ at 25°C)	860		1500		640
Microscopical Examination	Amorphous matter		Amorphous matter		Amorphous matter	

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Annexure - B

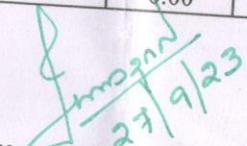
Heavy Metals Analysis Results of Water Samples Collected around 8 kms of Neyveli Lignite Corporation of India, Neyveli

Sl. No.	Sample No. RWS No.	Parameters											Remarks if any	
		Aluminium as Al	Arsenic as As	Boron as B	Chromium as Cr6+	Copper as Cu	Cyanide as CN	Cadmium as Cd	Lead as Pb	Mercury as Hg	Phenolic Compounds as C6H5OH	Selenium as Se		Zinc as Zn
		Permissible limit as per BIS 10500/2012												
		0.2 mg/l	0.05mg/l	1.0mg/l	0.05mg/l	1.5mg/l	0.05mg/l	0.003mg/l	0.01mg/l	0.001mg/l	0.002mg/l	0.01mg/l	15.0mg/l	
1	51	0.00	0.00	0.0	0.000	0.000	0.00	0.001	0.001	0.0004	0.0000	0.00	0.0	
2	52	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0002	0.0000	0.00	0.0	
3	53	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0002	0.0000	0.00	0.0	
4	54	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0002	0.0000	0.00	0.0	
5	55	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0002	0.0000	0.00	0.0	
6	56	0.00	0.00	0.0	0.000	0.000	0.00	0.001	0.002	0.0000	0.0000	0.00	0.0	
7	57	0.00	0.00	0.0	0.000	0.000	0.00	0.001	0.002	0.0000	0.0000	0.00	0.0	
8	58	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
9	59	0.00	0.00	0.0	0.000	0.000	0.00	0.001	0.002	0.0000	0.0000	0.00	0.0	
10	60	0.00	0.00	0.0	0.000	0.000	0.00	0.001	0.002	0.0000	0.0000	0.00	0.0	
11	61	0.00	0.00	0.0	0.000	0.000	0.00	0.001	0.002	0.0000	0.0000	0.00	0.0	
12	62	0.00	0.00	0.0	0.000	0.000	0.00	0.001	0.002	0.0000	0.0000	0.00	0.0	
13	63	0.00	0.00	0.0	0.000	0.000	0.00	0.001	0.002	0.0000	0.0000	0.00	0.0	
14	64	0.00	0.00	0.0	0.000	0.000	0.00	0.001	0.002	0.0000	0.0000	0.00	0.0	
15	65	0.00	0.00	0.0	0.000	0.000	0.00	0.001	0.002	0.0000	0.0000	0.00	0.0	
16	66	0.00	0.00	0.0	0.000	0.000	0.00	0.001	0.002	0.0000	0.0000	0.00	0.0	
17	67	0.00	0.00	0.0	0.000	0.001	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
18	68	0.00	0.00	0.0	0.000	0.001	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
19	69	0.00	0.00	0.0	0.000	0.003	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
20	70	0.00	0.00	0.0	0.000	0.003	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
21	71	0.00	0.00	0.0	0.000	0.005	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
22	72	0.00	0.00	0.0	0.000	0.006	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
23	73	0.00	0.00	0.0	0.000	0.008	0.00	0.001	0.002	0.0003	0.0000	0.00	0.0	
24	74	0.00	0.00	0.0	0.000	0.008	0.00	0.001	0.002	0.0003	0.0000	0.00	0.0	
25	75	0.00	0.00	0.0	0.000	0.008	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
26	76	0.00	0.00	0.0	0.000	0.008	0.00	0.000	0.000	0.0000	0.0000	0.00	0.003	
27	77	0.00	0.00	0.0	0.000	0.010	0.00	0.000	0.000	0.0000	0.0000	0.00	0.06	

Sl. No.	Sample No. RWS No.	Parameters											Remarks if any	
		Aluminium as Al	Arsenic as AS	Boron as B	Chromium as Cr6+	Copper as Cu	Cyanide as CN	Cadmium as Cd	Lead as Pb	Mercury as Hg	Phenolic Compounds as C6H5OH	Selenium as Se		Zinc as Zn
		Permissible limit as per BIS 10500/2012												
		0.2 mg/l	0.05mg/l	1.0mg/l	0.05mg/l	1.5mg/l	0.05mg/l	0.003mg/l	0.01mg/l	0.001mg/l	0.002mg/l	0.01mg/l	15.0mg/l	
28	78	0.00	0.00	0.0	0.000	0.010	0.00	0.000	0.000	0.0000	0.0000	0.00	0.6	
29	79	0.00	0.00	0.0	0.000	0.010	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
30	80	0.00	0.00	0.0	0.000	0.010	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
31	81	0.00	0.00	0.0	0.000	0.02	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
32	82	0.00	0.00	0.0	0.000	0.02	0.00	0.000	0.000	0.0000	0.0000	0.00	0.02	
33	83	0.00	0.00	0.0	0.000	0.08	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
34	84	0.00	0.00	0.0	0.000	0.02	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
35	85	0.00	0.00	0.0	0.000	0.02	0.00	0.001	0.002	0.0000	0.0000	0.00	0.0	
36	86	0.00	0.00	0.0	0.000	0.01	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
37	87	0.00	0.00	0.0	0.000	0.01	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
38	88	0.00	0.00	0.0	0.000	0.01	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
39	89	0.00	0.00	0.0	0.000	0.01	0.00	0.000	0.000	0.0000	0.0000	0.00	0.009	
40	90	0.00	0.00	0.0	0.000	0.02	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
41	91	0.00	0.00	0.0	0.000	0.02	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
42	92	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
43	93	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
44	94	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
45	95	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.04	
46	96	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
47	97	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
48	98	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
49	99	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
50	100	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
51	101	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
52	102	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
53	103	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
54	104	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	
55	105	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.0	

Sl. No.	Sample No. RWS No.	Parameters												Remarks if any
		Aluminium as Al	Arsenic as As	Boron as B	Chromium as Cr6+	Copper as Cu	Cyanide as CN	Cadmium as Cd	Lead as Pb	Mercury as Hg	Phenolic Compounds as C6H5OH	Selenium as Se	Zinc as Zn	
		Permissible limit as per BIS 10500/2012												
		0.2 mg/l	0.05mg/l	1.0mg/l	0.05mg/l	1.5mg/l	0.05mg/l	0.003mg/l	0.01mg/l	0.001mg/l	0.002mg/l	0.01mg/l	15.0mg/l	
56	106	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.000	
57	107	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.000	
58	108	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.000	
59	109	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.000	
60	110	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.000	
61	111	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.000	
62	112	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.004	
63	113	0.00	0.00	0.0	0.000	0.006	0.00	0.000	0.000	0.0000	0.0000	0.00	0.006	
64	114	0.00	0.00	0.0	0.000	0.006	0.00	0.000	0.000	0.0000	0.0000	0.00	0.000	
65	115	0.00	0.00	0.0	0.000	0.002	0.00	0.000	0.000	0.0000	0.0000	0.00	0.004	
66	116	0.00	0.00	0.0	0.000	0.002	0.00	0.001	0.001	0.0000	0.0000	0.00	0.004	
67	117	0.00	0.00	0.0	0.000	0.002	0.00	0.001	0.001	0.0000	0.0000	0.00	0.000	
68	118	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.006	
69	119	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.004	
70	120	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.000	
71	121	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.004	
72	122	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.002	
73	123	0.00	0.00	0.0	0.000	0.001	0.00	0.000	0.000	0.0000	0.0000	0.00	0.000	
74	124	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.000	
75	125	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.000	
76	126	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.000	
77	127	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.000	
78	128	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.000	
79	129	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.000	
80	130	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.006	
81	131	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.008	
82	132	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	1.800	
83	133	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.1	
84	134	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.006	

Sl. No.	Sample No. RWS No.	Parameters													Remarks if any
		Aluminium as Al	Arsenic as As	Boron as B	Chromium as Cr6+	Copper as Cu	Cyanide as CN	Cadmium as Cd	Lead as Pb	Mercury as Hg	Phenolic Compounds as C6H5OH	Selenium as Se	Zinc as Zn		
		Permissible limit as per BIS 10500/2012													
		0.2 mg/l	0.05mg/l	1.0mg/l	0.05mg/l	1.5mg/l	0.05mg/l	0.003mg/l	0.01mg/l	0.001mg/l	0.002mg/l	0.01mg/l	15.0mg/l		
86	136	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.02		
87	137	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.001		
88	138	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.002		
89	139	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.001		
90	140	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.002		
91	141	0.00	0.00	0.0	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000	0.00	0.006		
92	142	0.00	0.00	0.0	0.000	0.000	0.00	0.001	0.001	0.0000	0.0000	0.00	0.004		
93	143	0.00	0.00	0.0	0.000	0.000	0.00	0.001	0.002	0.0000	0.0000	0.00	0.000		
					0.000	0.000	0.00	0.001	0.001	0.0000	0.0000	0.00	0.000		
										0.0000	0.0000	0.00	0.000		


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