

**BEFORE THE NATIONAL GREEN TRIBUNAL SOUTHERN ZONE, CHENNAI**

O.A.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 8 Km around NLC" and in The Times of India, Chennai Edition dt. 09.08.2023 under the caption "Water near NLC full of Mercury".

AND

The Managing Director  
NLC India Limited,  
Chennai and Ors.

...Respondents

**REPORT FILED BY THE 6<sup>TH</sup> RESPONDENT**



THROUGH  
M/S. GAUTAM S. RAMAN  
COUNSEL FOR 6<sup>TH</sup> RESPONDENT

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<b>S.NO</b>	<b>DATE</b>	<b>DESCRIPTION</b>	<b>PG NO</b>
1.	08.08.2025	Report filed by the CMWSSB	<b>1</b>
2.	29.07.2025	Test report	<b>4</b>

Dated at Chennai on this the 8<sup>th</sup> day of August, 2025



Counsel for 6<sup>th</sup> Respondent

BEFORE THE NATIONAL GREEN TRIBUNAL  
SOUTHERN ZONE, CHENNAI  
Original Application No. 107 of 2023(SZ)

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And

- 1) The Managing Director,  
NLC India Limited,  
No.135, EVR Periyar High Road,  
Kilpauk, Chennai – 600 010.
- 2) Union of India Rep. by its Secretary Ministry  
of Environment Forest and Climate Change,  
Indira Paryavaran Bhawan Jorbag Road,  
New Delhi – 110003, India  
[Secy-moef@nic.in](mailto:Secy-moef@nic.in)
- 3) Additional Chief Secretary to Government,  
Department of Environment, Climate Change  
and Forests, Government of Tamil Nadu,  
Secretariat, Chennai 600009.
- 4) Chairman, Central Pollution Control Board,  
Parivesh Bhavan, East Arjun Nagar,  
Delhi – 110032  
[Ccb.cpcb@nic.in](mailto:Ccb.cpcb@nic.in)
- 5) Chairman,  
Tamil Nadu Pollution Control Board,  
No. 76, mount Salai,  
Guindy, Chennai 600032  
[grievance@tnpcb.gov.in](mailto:grievance@tnpcb.gov.in)
- 6) Chennai Metropolitan Water Supply  
and Sewerage Board,  
No.1, Pumping Station Road,  
Chennai – 600002  
[md@cmwssb.in](mailto:md@cmwssb.in), [dmwssb@tn.gov.in](mailto:dmwssb@tn.gov.in)

**EXECUTIVE ENGINEER (Veeranam)**  
C.M.W.S.S. Board

No.1 Pumping Station Road,  
Chindrapuram, Chennai - 600002  
Pumping Station Board

*maluman*  
**Superintending Engineer (WT&T),**  
C.M.W.S.S. Board,  
Pumping Station Road,  
Chennai-600 002.

- 7) Directorate of Public Health and Preventive Medicine,  
359, Anna Salai, DMS Complex, Teynampet,  
Chennai 600006  
Tamil Nadu. [Dphpm.tn@nic.in](mailto:Dphpm.tn@nic.in)
- 8) District Collector,  
Gundu Salai Rd,  
Alpet, Manjakuppam,  
Cuddalore 607001,  
[collrcud@nic.in](mailto:collrcud@nic.in)
- 9) Department of Municipal Administration and Water Supply,  
Secretariat,  
Chennai 600009,  
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[mawssec@tn.gov.in](mailto:mawssec@tn.gov.in)
- 10) Tamil Nadu Water Supply and Drainage Board (TWAD),  
31, Kamarajar Salai,  
Chepauk,  
Chennai -600005  
[twadho@gmail.com](mailto:twadho@gmail.com)
- 11) Prabhakaran Veeraarasu,  
No. 72, Anjugam nagar,  
3<sup>rd</sup> Street, Jafferkhanpet,  
Chennai – 600 083.... Respondent(s)

**REPORT FILED BY THE 6<sup>th</sup> RESPONDENT**

I, V. Siva Kumar, S/o.P. Varadharajan aged about 57 years, working as Superintending Engineer (WT&T), CMWSSB having office at No.1 Pumping Station Road, Chindatripet, Chennai 600002 do hereby solemnly affirm and sincerely state as follows:-

01. I am the Superintending Engineer (WT&T), CMWSSB of the 6<sup>th</sup> Respondent Board and filing this report on behalf of the 6<sup>th</sup> Respondent herein as I am well acquainted with the facts of the case.

02. I submit that CMWSSB is drawing surface water only from Veeranam lake and supplying to Chennai city after water treatment process at Vadakuthu. The treated water samples from the Vadakuthu Water Treatment Plant of CMWSSB were tested periodically at the NABL accredited and CPCB recognized Laboratory viz.

*A*  
EXECUTIVE ENGINEER (WT&T)  
C.M.W.S.S. Board  
No.1 Pumping Station Road  
Chindadripet, Chennai - 600002

*malu man*  
Superintending Engineer (WT&T),  
C.M.W.S.S. Board,  
Pumping Station Road

M/s.Chennai Mettlex Lab Private Ltd.,Guindy, Chennai, the same labwhere the samples of NGO Poovulagin Nanbargal was tested for complete chemical and biological Analysis.Based on thetest reports received from M/s.Chennai Mettlex Lab Private Ltd, it was seen that the Mercury as Hg in tested treated water sample is below detectable level of 0.0005 mg/las against the requirement (acceptable limit)of 0.001 mg/l (Max.) as per IS 10500/2012 and hence it is confirmed that the water supplied from the Vadakuthu Water Treatment Plant of CMWSSB in Cuddalore District to Chennai city meets the drinking water standards as per IS 10500/2012 and is safe.The lab test report is annexed herewith for kind perusal of this Hon'ble Tribunal.

It is therefore prayed that, this Hon'ble Tribunal may be pleased to accept the above response on behalf of the 6<sup>th</sup> Respondent and thus render Justice.

Solemnly affirmed at Chennai on this  
the 8<sup>th</sup>day of August, 2025 and ]  
signed his name in my presence ]

*M. G. Mani*  
**Superintending Engineer (WT&T),  
C.M.W.S.S. Board,  
Pumping Station Road,  
Chennai-600 002.**  
Before me

*AP*  
**EXECUTIVE ENGINEER (Veeranam)  
C.M.W.S.S. Board  
No.1 Pumping Station Road,  
Chindadripet, Chennai - 600002**



# CHENNAI METTEX LAB PRIVATE LIMITED



Jothi Complex, 83, M.K.N. Road, Guindy, Chennai - 600 032, Tamil Nadu, INDIA  
Phone : +91 44 22323163, 22311034, 42179490, 42179491 | CIN : U74999TN2008PTC069459  
Email : test@mettexlab.com | Web : www.mettexlab.com

TC-5589

## TEST REPORT

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ISSUED TO : **M/s. Executive Engineer/Veeranam (CMWSSB)**,  
No : 180, MLD Water Treatment Plant,  
Vadakuathu,  
Cuddalore-607 303,  
Tamil Nadu, India.

Test Certificate No : CML/25-26/T043968

Test Certificate Date : 29/07/2025

Date of Receipt : 24/07/2025

Customer : SRF Dated : 24/07/2025

Analysis Commenced On : 24/07/2025

Laboratory No : 2619684/001

Analysis Completed On : 28/07/2025

Sample Description : **Treated Water (UGT)**.  
(as stated by customer) **Lat : 11.592732. Long :79.553118.**

Sample Collected By : M/s. Chennai Mettex Lab Representative.

S.No.	Test Parameters	Test Method	Units	Results	Limit as per IS: 10500:2012 (Reaff.2023) With Amendment No : 4 November 2021	
					Acceptable Limit (Max)	Permissible Limit in the absence of alternate source (Max)
<b>Table 1 : Organoleptic and Physical Parameters</b>						
<b>Discipline: Chemical</b>				<b>Group: Water</b>		
1	Colour	IS: 3025 Part: 4 -2021	Hazen	5.0	5.0	15
2	Odour	IS: 3025 Part: 5-2018	-	Agreeable	Agreeable	Agreeable
3	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	-	7.52	6.5 - 8.5	No Relaxation
4	Turbidity	IS 3025 Part 10 - 2023	NTU	4.1	1.0	5.0
5	Taste	IS 3025 Part 8 - 2023	-	Agreeable	Agreeable	Agreeable
6	Total Dissolved Solids	IS 3025 Part 16 - 2023	mg/l	351	500	2000
<b>Table 2 : General Parameters Concerning Substances Undesirable in Excess Amounts</b>						
<b>Discipline: Chemical</b>				<b>Group: Water &amp; Residues in Water</b>		
7	Aluminium as Al	IS 3025 part 65 : 2022	mg/l	BDL(DL:0.005)	0.03	0.2
8	Ammonia (as total ammonia-N)	IS 3025 Part 34 -1988 (Nesslerization method)	mg/l	BDL(DL:0.01)	0.5	No Relaxation
9	Anionic surface active Agent (as MBAS)	IS 3025 Part 68 - 2019	mg/l	BDL(DL:0.01)	0.2	1.0
10	Barium as Ba	IS 3025 part 65 : 2022	mg/l	0.06	0.7	No Relaxation
11	Boron as B		mg/l	0.05	0.5	2.4
12	Calcium as Ca	IS 3025 Part 40 - 1991 (EDTA titrimetric method)	mg/l	36.7	75	200
13	Chloramines as Cl <sub>2</sub>	APHA 24th Edition 2023 - 4500 Cl -G	mg/l	BDL(DL:0.1)	4.0	No Relaxation
14	Chloride as Cl	IS 3025 Part 32 -1988 (Argentometric Method)	mg/l	79.3	250	1000
15	Copper as Cu	IS 3025 part 65 : 2022	mg/l	BDL(DL:0.02)	0.05	1.5
16	Fluoride as F	APHA 24th Edition 2023 - 4500 - F -D	mg/l	0.62	1.0	1.5
17	*Residual Free Chlorine	IS: 3025 Part 26-2021	mg/l	0.26	0.2 (Min)	1.0 (Min)
18	Iron as Fe	IS 3025 Part 53 -2003 (1, 10 phenanthroline method)	mg/l	0.49	1.0	No Relaxation

*P. Kavitha*  
Reviewed & Authorised by  
**P. KAVITHA**  
Technical Manager  
Authorised Signatory

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Test Certificate Date : 29/07/2025

S.No.	Test Parameters	Test Method	Units	Results	Limit as per IS: 10500:2012 (Reaff.2023) With Amendment No : 4 November 2021	
					Acceptable Limit (Max)	Permissible Limit in the absence of alternate source (Max)
<b>Discipline: Chemical</b>					<b>Group: Water &amp; Residues in Water</b>	
19	Magnesium as Mg	IS 3025 Part 46 - 2023	mg/l	18.5	30	100
20	Manganese as Mn	IS 3025 part 65 : 2022	mg/l	BDL(DL:0.02)	0.1	0.3
21	Mineral Oil	IS: 3025 Part 39-2021	mg/l	BDL(DL:0.01)	1.0	No Relaxation
22	Nitrate as NO3	APHA 24th Edition 2023 - 4500 NO3 -B	mg/l	4.1	45	No Relaxation
23	Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH	IS 3025 Part 43/Sec 1 - 2022	mg/l	BDL(DL:0.0005)	0.001	0.002
24	Selenium as Se	IS 3025 part 65 : 2022	mg/l	BDL(DL:0.005)	0.01	No Relaxation
25	Silver as Ag		mg/l	BDL(DL:0.005)	0.1	No Relaxation
26	Sulphate as SO <sub>4</sub>	IS 3025 Part 24/Sec 1 - 2022	mg/l	25.7	200	400
27	Sulphide as H <sub>2</sub> S	IS 3025 Part 29 - 2022	mg/l	BDL(DL:0.01)	0.05	No Relaxation
28	Total Alkalinity as CaCO <sub>3</sub>	IS 3025 Part 23 - 2023	mg/l	133.9	200	600
29	Total Hardness as CaCO <sub>3</sub>	IS 3025 Part 21 - 2009(EDTA titrimetric method)	mg/l	168.0	200	600
30	Zinc as Zn	IS 3025 part 65 : 2022	mg/l	BDL(DL:0.05)	5.0	15

Table 3 : Parameters Concerning Toxic Substances

Discipline: Chemical					Group: Water & Residues in Water	
31	Cadmium as Cd	IS 3025 part 65 : 2022	mg/l	BDL(DL:0.001)	0.003	No Relaxation
32	Cyanide as CN	IS 3025 Part 27/Sec 1 -2021 (colorimetric method)	mg/l	BDL(DL:0.005)	0.05	No Relaxation
33	Lead as Pb	IS 3025 part 65 : 2022	mg/l	BDL(DL:0.005)	0.01	No Relaxation
34	Mercury as Hg	IS 3025 part-65: 2022	mg/l	BDL(DL:0.0005)	0.001	No Relaxation
35	Molybdenum as Mo	IS 3025 part 65 : 2022	mg/l	BDL(DL:0.02)	0.07	No Relaxation
36	Nickel as Ni		mg/l	BDL(DL:0.005)	0.02	No Relaxation
37	Poly Chlorinated Biphenyls (PCB)	APHA 24th Edition 2023 -6431	mg/l	ND(DL:0.00001)	0.0005	No Relaxation
38	Poly Nuclear Aromatic hydrocarbons (PAH)	APHA 24th Edition 2023- 6440	mg/l	ND(DL:0.00001)	0.0001	No Relaxation
39	Total Arsenic as As	IS 3025 part 65 : 2022	mg/l	BDL(DL:0.005)	0.01	No Relaxation
40	Total Chromium as Cr		mg/l	BDL(DL:0.02)	0.05	No Relaxation

### Trihalomethanes

41	Bromoform	APHA 24th Edition 2023 - 6232	mg/l	ND(DL:0.00001)	0.1	No Relaxation
42	Dibromochloromethane		mg/l	ND(DL:0.00001)	0.1	No Relaxation
43	Bromodichloromethane		mg/l	ND(DL:0.00001)	0.06	No Relaxation
44	Chloroform		mg/l	ND(DL:0.00001)	0.2	No Relaxation
45	Uranium as U		IS 3025 part-65: 2022	mg/l	BDL(DL:0.001)	0.03

Table 5 : Pesticide Residues Limits

Discipline: Chemical					Group: Water & Residues in Water	
46	Alachlor	USEPA 525.2	mg/l	BDL(DL:0.00001)	-	20
47	Atrazine	USEPA 8141 A	mg/l	BDL(DL:0.00001)	-	2.0

*[Signature]*  
 Reviewed & Authorised by  
**P. KAVITHA**  
 Technical Manager  
 Authorised Signatory

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					Acceptable Limit (Max)	Permissible Limit in the absence of alternate source (Max)	
<b>Discipline: Chemical</b>					<b>Group: Water &amp; Residues in Water</b>		
48	Aldrin	USEPA 525.2	mg/l	BDL(DL:0.00001)	-	0.03	
49	Dieldrin		mg/l	BDL(DL:0.00001)	-	0.03	
50	Alpha HCH	USEPA 508.1	mg/l	BDL(DL:0.00001)	-	0.01	
51	Beta HCH		mg/l	BDL(DL:0.00001)	-	0.04	
52	Butachlor	USEPA 8141 A	mg/l	BDL(DL:0.00001)	-	125	
53	Chlorpyrifos	USEPA 525.2	mg/l	BDL(DL:0.00001)	-	30	
54	Delta - BHC (HCH)	USEPA 508.1	mg/l	BDL(DL:0.00001)	-	0.04	
55	2, 4-Dichlorophenoxy acetic acid	USEPA 515.1	mg/l	BDL(DL:0.00001)	-	30	
56	O,P - DDT	USEPA 508.1	mg/l	BDL(DL:0.00001)	-	1.0	
57	P,P - DDT		mg/l	BDL(DL:0.00001)	-	1.0	
58	O,P - DDE		mg/l	BDL(DL:0.00001)	-	1.0	
59	P,P - DDE		mg/l	BDL(DL:0.00001)	-	1.0	
60	O,P - DDD		mg/l	BDL(DL:0.00001)	-	1.0	
61	P,P - DDD		mg/l	BDL(DL:0.00001)	-	1.0	
62	Alpha - Endosulfan		mg/l	BDL(DL:0.00001)	-	0.4	
63	Beta - Endosulfan		mg/l	BDL(DL:0.00001)	-	0.4	
64	Endosulfan sulphate		mg/l	BDL(DL:0.00001)	-	0.4	
65	Ethion		USEPA 1657 A	mg/l	BDL(DL:0.00001)	-	3.0
66	Gamma HCH (Lindane)		USEPA 508.1	mg/l	BDL(DL:0.00001)	-	2.0
67	Isoproturon	USEPA 532	mg/l	BDL(DL:0.00001)	-	9.0	
68	Malathion	USEPA 8141 A	mg/l	BDL(DL:0.00001)	-	190	
69	Methyl parathion		mg/l	BDL(DL:0.00001)	-	0.3	
70	Monochrotophos		mg/l	BDL(DL:0.00001)	-	1.0	
71	Phorate		mg/l	BDL(DL:0.00001)	-	2.0	

Table 6 : Bacteriological Quality of Drinking Water

Discipline: Biological					Group: Water	
72	<i>Escherichia coli</i>	IS 15185 - 2016 (Reaff.2021)	-	Absent/100 ml	Shall not be detectable in any 100ml sample	Shall not be detectable in any 100ml sample
73	Total Coliform		-	Absent/100 ml	Shall not be detectable in any 100ml sample	Shall not be detectable in any 100ml sample

**Note:** The above water sample complies with Permissible limits of drinking water specification as per IS: 10500:2012(Reaff.2023) With Amendment No: 4 November 2021 with respect to above parameters tested. \* To be applicable only when water is chlorinated.  
**Abbreviation:** ND - Not Detected, BDL: Below Detection Limit; DL: Detection Limit.

.....End of Report.....

Reviewed & Authorised by  
**G.S. RADHA**  
 Technical Manager  
 Authorised Signatory

For Chennai Mettex Lab Private Limited

Reviewed & Authorised by  
**P. KAVITHA**  
 Technical Manager  
 Authorised Signatory

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AND

The Managing Director  
NLC India Limited,  
Chennai and Ors.

...Respondents

**REPORT FILED BY THE 6<sup>TH</sup> RESPONDENT**



THROUGH  
M/S. GAUTAM S. RAMAN  
COUNSEL FOR 6<sup>TH</sup> RESPONDENT