

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE AT CHENNAI**

ORIGINAL APPLICATION No 107 of 2023 (SZ)

IN THE MATTER OF

Tribunal on its own motion Suo Moto
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".

...Suo Moto

-Vs-

The Managing Director,
NLC India Limited,
Chennai and Ors.

...Respondents

REPORT FILED BY THE 6th RESPONDENT

Date: 12.04.2025

**M/s. GAUTAM S. RAMAN
STANDING COUNSEL**

CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD

No.98A, 4th Floor, Auras Corporate Centre, Dr. R.K.Salai, Royapettah,

Chennai - 600004.

Mobile: 9940071160, Email: gautamraman@gmail.com

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Dated at Chennai on this the 12th day of April 2025



Counsel for 6th Respondent

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

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... Suo Motu

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
- 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
- 5) Chairman,
Tamil Nadu Pollution Control Board,
No. 76, mount Salai,
Guindy, Chennai 600032
grievance@tnpcb.gov.in
- 6) Chennai Metropolitan Water Supply
and Sewerage Board,
No.1, Pumping Station Road,
Chennai – 600002
md@cmwssb.in, dmwssb@tn.gov.in
- 7) Directorate of Public Health and
Preventive Medicine,
359, Anna Salai, DMS Complex, Teynampet,
Chennai 600006
Tamil Nadu. Dphpm.tn@nic.in

... Respondent(s)

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

Superintending Engineer (WT & T)
Superintending Engineer (WT & T)
CMWSS Board
No.1, Pumping Station Road,
chintadripet, Chennai - 2.

- 8) District Collector,
Gundu Salai Rd,
Alpet, Manjakuppam,
Cuddalore 607001,
collrcud@nic.in
- 9) Department of Municipal Administration and
Water Supply,
Secretariat,
Chennai 600009,
Tamil Nadu.
mawssec@tn.gov.in
- 10) Tamil Nadu Water Supply and Drainage
Board (TWAD),
31, Kamarajar Salai,
Chepauk,
Chennai -600005
twadho@gmail.com
- 11) Prabhakaran Veeraarasu,
No. 72, Anjugam nagar,
3rd Street, Jafferkhanpet,
Chennai – 600 083.

REPORT FILED BY THE 6th 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 6th Respondent and filing this report on behalf of the 6th Respondent herein as I am well acquainted with the facts of the case.

02. I submit that the treated water sample from the Vadakuthu Water Treatment Plant of CMWSSB was tested on 02.04.2025 at a NABL accredited and CPCB recognized Laboratory viz. M/s. Chennai Mettex Lab Private Ltd., Guindy, Chennai for complete chemical and biological Analysis. From the enclosed test report received from M/s. Chennai Mettex Lab Private Ltd, it was seen that the Mercury as Hg in tested treated water sample is **below detectable level of 0.0005 mg/l** as 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.


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


Superintending Engineer (WT & T)
CMWSS Board
No.1, Pumping Station Road,
chintadripet, Chennai - 2.

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

[Handwritten signature]

Superintending Engineer (WT & T)
CMWSS Board
No.1, Pumping Station Road,
Chintadripet, Chennai - 2.

Solemnly affirmed at Chennai on this
the 11th day of April, 2025 and]
signed his name in my presence]

Before me

[Handwritten signature]

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

4

Before the Hon'ble National Green Tribunal
Southern Zone, Chennai.

Original Application No. 107 of 2023(SZ)
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REPORT FILED BY THE 6th RESPONDENT
(CMWSSB)

Advocate :: Chennai.

GAUTAM S RAMAN
Counsel for 6th Respondent



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,
 Vadakuthu,
 Cuddalore-607 303,
 Tamil Nadu, India.

Test Certificate No : CML/25-26/T000167

Test Certificate Date : 02/04/2025

Date of Receipt : 27/03/2025

Customer : SRF Dated : 27/03/2025

Analysis Commenced On : 27/03/2025

Laboratory No : 2512684/001

Analysis Completed On : 02/04/2025

Sample Description : **Treated Water (UGT)**
 (as stated by customer) **Lat : 11592732; Long : 79.553118.**

ULR NO: TC558925000021498

Sample Collected By : 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)
Table 1 : Organoleptic and Physical Parameters						
Discipline: Chemical						Group: Water
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)	-	7.68	6.5 - 8.5	No Relaxation
4	Turbidity	IS 3025 Part 10 - 2023	NTU	0.7	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	369	500	2000
Table 2 : General Parameters Concerning Substances Undesirable in Excess Amounts						
Discipline: Chemical						Group: Water & Residues in Water
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	0.06	0.5	2.4
12	Calcium as Ca	IS 3025 Part 40 - 1991 (EDTA titrimetric method)	mg/l	23	75	200
13	Chloramines as Cl ₂	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	89.0	250	1000

Reviewed & Authorised by
P. KAVITHA
 Technical Manager
 Authorised Signatory

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CML/LAB/T/7.8/1

**CHENNAI METTEX LAB PRIVATE LIMITED**

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					Acceptable Limit (Max)	Permissible Limit in the absence of alternate source (Max)
Discipline: Chemical				Group: Water & Residues in Water		
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	0.43	1.0	1.5
17	*Residual Free Chlorine	IS: 3025 Part 26-2021	mg/l	0.71	0.2 (Min)	1.0 (Min)
18	Iron as Fe	IS 3025 Part 53 -2003 (1, 10 phenanthroline method)	mg/l	0.87	1.0	No Relaxation
19	Magnesium as Mg	IS 3025 Part 46 - 2023	mg/l	21.4	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 NO ₃	APHA 24th Edition 2023 - 4500 NO ₃ -B	mg/l	3.6	45	No Relaxation
23	Phenolic compounds as C ₆ H ₅ 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 ₄	IS 3025 Part 24/Sec 1 - 2022	mg/l	51.0	200	400
27	Sulphide as H ₂ S	IS 3025 Part 29 - 2022	mg/l	BDL(DL:0.01)	0.05	No Relaxation
28	Total Alkalinity as CaCO ₃	IS 3025 Part 23 - 2023	mg/l	114.2	200	600
29	Total Hardness as CaCO ₃	IS 3025 Part 21 - 2009(EDTA titrimetric method)	mg/l	146.0	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				Group: Water & Residues in Water		
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

P. Kavitha
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 Technical Manager
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					Acceptable Limit (Max)	Permissible Limit in the absence of alternate source (Max)
Discipline: Chemical				Group: Water & Residues in Water		
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	No Relaxation

Table 5 : Pesticide Residues Limits

Discipline: Chemical				Group: Water & Residues in Water		
46	Alachlor	USEPA 525.2	µg/l	ND(DL:0.01)	-	20
47	Atrazine	USEPA 8141 A	µg/l	ND(DL:0.01)	-	2.0
48	Aldrin	USEPA 525.2	µg/l	ND(DL:0.01)	-	0.03
49	Dieldrin		µg/l	ND(DL:0.01)	-	0.03
50	Alpha HCH	USEPA 508.1	µg/l	ND(DL:0.01)	-	0.01
51	Beta HCH		µg/l	ND(DL:0.01)	-	0.04
52	Butachlor	USEPA 8141 A	µg/l	ND(DL:0.01)	-	125
53	Chlorpyrifos	USEPA 525.2	µg/l	ND(DL:0.01)	-	30
54	Delta - BHC (HCH)	USEPA 508.1	µg/l	ND(DL:0.01)	-	0.04
55	2, 4-Dichlorophenoxy acetic acid	USEPA 515.1	µg/l	ND(DL:0.01)	-	30
56	O,P - DDT	USEPA 508.1	µg/l	ND(DL:0.01)	-	1.0
57	P,P - DDT		µg/l	ND(DL:0.01)	-	1.0
58	C,P - DDE		µg/l	ND(DL:0.01)	-	1.0
59	P,P - DDE		µg/l	ND(DL:0.01)	-	1.0
60	O,P - DDD		µg/l	ND(DL:0.01)	-	1.0
61	P,P - DDD		µg/l	ND(DL:0.01)	-	1.0

P. Kavitha
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P. KAVITHA
 Technical Manager
 Authorised Signatory

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Discipline: Chemical					Group: Water & Residues in Water	
62	Alpha - Endosulfan	USEPA 508.1	µg/l	ND(DL:0.01)	-	0.4
63	Beta - Endosulfan		µg/l	ND(DL:0.01)	-	0.4
64	Endosulfan sulphate		µg/l	ND(DL:0.01)	-	0.4
65	Ethion	USEPA 1657 A	µg/l	ND(DL:0.01)	-	3.0
66	Gamma HCH (Lindane)	USEPA 508.1	µg/l	ND(DL:0.01)	-	2.0
67	Isoproturon	USEPA 532	µg/l	ND(DL:0.01)	-	9.0
68	Malathion	USEPA 8141 A	µg/l	ND(DL:0.01)	-	190
69	Methyl parathion		µg/l	ND(DL:0.01)	-	0.3
70	Monochrotophos		µg/l	ND(DL:0.01)	-	1.0
71	Phorate		µg/l	ND(DL:0.01)	-	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 Acceptable 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: 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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STANDING COUNSEL**

CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD

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