

**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 in The New Indian Express,
Dt. 09.08.2023, under the caption "Huge pollution
Risk in 8 Km around NLC" 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,
and Ors

...Respondents

REPORT FILED BY THE 6th RESPONDENT



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

**BEFORE THE NATIONAL GREEN TRIBUNAL SOUTHERN ZONE,
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Dated at Chennai on this the 28th day of January, 2025



Counsel for 6th Respondent

BEFORE THE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE, CHENNAI

Original Application No. 107 of 2023(SZ)

IN THE MATTER OF

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And

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Chennai and Ors.

...Respondent(s)

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. The treated water sample from the Vadakuthu Water Treatment Plant of CMWSSB was tested on 13.01.2025 at a NABL accredited and CPCB recognized Laboratory viz. M/s. Chennai Mettix Lab Private Ltd., Guindy, Chennai for complete chemical and biological Analysis. From the enclosed test report received from M/s. Chennai Mettix 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 obtained from M/s. Chennai Mettix Lab Private Ltd., Chennai is uploaded in NGT Portal.

maluman

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

03. 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.

maluman

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

Solemnly affirmed at Chennai on this
the 27th day of January, 2025 and
signed his name in my presence

]]

Before me



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

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

Original Application No. 107 of 2023(SZ)
(Suo Motu)

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...Suo Motu

And

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...Respondent(s)

REPORT FILED BY THE 6th RESPONDENT
(CMWSSB)

Advocate :: Chennai.

GAUTHAM 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
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 Email : test@mettexlab.com | Web : www.mettexlab.com

TEST REPORT

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

Test Certificate No : CML/24-25/T015374

Test Certificate Date : 13/01/2025

Date of Receipt : 07/01/2025

Customer : SRF Dated : 07/01/2025

Analysis Commenced On : 07/01/2025

Laboratory No : 2510216/001

Analysis Completed On : 11/01/2025

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

ULR NO: TC558925000002441

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	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)	-	7.84	6.5 - 8.5	No Relaxation
4	Turbidity	IS 3025 Part 10 - 2023	NTU	0.8	1.0	5.0
5	Total Dissolved Solids	IS 3025 Part 16 - 2023	mg/l	341	500	2000
Table 2 : General Parameters Concerning Substances Undesirable in Excess Amounts						
Discipline: Chemical				Group: Water & Residues in Water		
6	Aluminium as Al	IS 3025 part 65 :2022	mg/l	BDL(DL:0.005)	0.03	0.2
7	Ammonia (as total ammonia-N)	IS 3025 Part 34 -1988 (Nesslerization method)	mg/l	BDL(DL:0.01)	0.5	No Relaxation
8	Antonie surface active Agent (as MBAS)	IS 3025 Part 68 - 2019	mg/l	BDL(DL:0.01)	0.2	1.0
9	Barium as Ba	IS 3025 part 65 : 2022	mg/l	BDL(DL:0.05)	0.7	No Relaxation
10	Boron as B		mg/l	BDL(DL:0.05)	0.5	2.4
11	Calcium as Ca	IS 3025 Part 40 - 1991 (EDTA titrimetric method)	mg/l	32	75	200
12	Chloramines as Cl ₂	APHA 24th Edition 2023 - 4500 Cl -G	mg/l	BDL(DL:0.1)	4.0	No Relaxation
13	Chloride as Cl	IS 3025 Part 32 -1988 (Argentometric Method)	mg/l	82.0	250	1000
14	Copper as Cu	IS 3025 part 65 : 2022	mg/l	BDL(DL:0.02)	0.05	1.5
15	Fluoride as F	APHA 24th Edition 2023 - 4500 - F -D	mg/l	0.15	1.0	1.5
16	*Residual Free Chlorine	IS: 3025 Part 26-2021	mg/l	0.42	0.2 (Min)	1.0 (Min)

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

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Test Certificate No : CML/24-25/T015374
 Test Certificate Date : 13/01/2025

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					Acceptable Limit (Max)	Permissible Limit in the absence of alternate source (Max)
Discipline: Chemical					Group: Water & Residues in Water	
17	Iron as Fe	IS 3025 Part 53 -2003 (1, 10 phenanthroline method)	mg/l	BDL(DL:0.01)	1.0	No Relaxation
18	Magnesium as Mg	IS 3025 Part 46 - 2023	mg/l	19.4	30	100
19	Manganese as Mn	IS 3025 part 65 :2022	mg/l	BDL(DL:0.02)	0.1	0.3
20	Mineral Oil	IS: 3025 Part 39-2021	mg/l	BDL(DL:0.01)	1.0	No Relaxation
21	Nitrate as NO ₃	APHA 24th Edition 2023 - 4500 NO ₃ -B	mg/l	3	45	No Relaxation
22	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
23	Selenium as Se	IS 3025 part 65 : 2022	mg/l	BDL(DL:0.005)	0.01	No Relaxation
24	Silver as Ag		mg/l	BDL(DL:0.005)	0.1	No Relaxation
25	Sulphate as SO ₄	IS 3025 Part 24/Sec 1 - 2022	mg/l	35.4	200	400
26	Sulphide as H ₂ S	IS 3025 Part 29 - 2022	mg/l	BDL(DL:0.01)	0.05	No Relaxation
27	Total Alkalinity as CaCO ₃	IS 3025 Part 23 - 2023	mg/l	113.3	200	600
28	Total Hardness as CaCO ₃	IS 3025 Part 21 - 2009(EDTA titrimetric method)	mg/l	160.0	200	600
29	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	
30	Cadmium as Cd	IS 3025 part 65 ; 2022	mg/l	BDL(DL:0.001)	0.003	No Relaxation
31	Cyanide as CN	IS 3025 Part 27/Sec 1 -2021 (colorimetric method)	mg/l	BDL(DL:0.01)	0.05	No Relaxation
32	Lead as Pb	IS 3025 part 65 : 2022	mg/l	BDL(DL:0.005)	0.01	No Relaxation
33	Mercury as Hg	IS 3025 part- 65: 2022	mg/l	BDL(DL:0.0005)	0.001	No Relaxation
34	Molybdenum as Mo	IS 3025 part 65 : 2022	mg/l	BDL(DL:0.02)	0.07	No Relaxation
35	Nickel as Ni		mg/l	BDL(DL:0.005)	0.02	No Relaxation
36	Poly Chlorinated Biphenyls (PCB)	APHA 24th Edition 2023 - 6431	mg/l	ND(DL:0.00001)	0.0005	No Relaxation
37	Poly Nuclear Aromatic hydrocarbons (PAH)	APHA 24th Edition 2023- 6440	mg/l	ND(DL:0.00001)	0.0001	No Relaxation
38	Total Arsenic as As	IS 3025 part 65 : 2022	mg/l	BDL(DL:0.005)	0.01	No Relaxation
39	Total Chromium as Cr		mg/l	BDL(DL:0.02)	0.05	No Relaxation
Trihalomethanes						
40	Bromoform	APHA 24th Edition 2023 - 6232	mg/l	ND(DL:0.00001)	0.1	No Relaxation
41	Dibromochloromethane		mg/l	ND(DL:0.00001)	0.1	No Relaxation

[Signature]
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P. KAVITHA
 Technical Manager
 Authorised Signatory

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TC-5589

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					Acceptable Limit (Max)	Permissible Limit in the absence of alternate source (Max)
Discipline: Chemical					Group: Water & Residues in Water	
42	Bromodichloromethane	APHA 24th Edition 2023 - 6232	mg/l	ND(DL:0.00001)	0.06	No Relaxation
43	Chloroform		mg/l	ND(DL:0.00001)	0.2	No Relaxation
44	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	
45	Alachlor	USEPA 525.2	µg/l	ND(DL:0.01)	-	20
46	Atrazine	USEPA 8141 A	µg/l	ND(DL:0.01)	-	2.0
47	Aldrin	USEPA 525.2	µg/l	ND(DL:0.01)	-	0.03
48	Dieldrin		µg/l	ND(DL:0.01)	-	0.03
49	Alpha HCH	USEPA 508.1	µg/l	ND(DL:0.01)	-	0.01
50	Beta HCH		µg/l	ND(DL:0.01)	-	0.04
51	Butachlor	USEPA 8141 A	µg/l	ND(DL:0.01)	-	125
52	Chlorpyrifos	USEPA 525.2	µg/l	ND(DL:0.01)	-	30
53	Delta - BHC (HCH)	USEPA 508.1	µg/l	ND(DL:0.01)	-	0.04
54	2,4-Dichlorophenoxy acetic acid	USEPA 515.1	µg/l	ND(DL:0.01)	-	30
55	O,P - DDT	USEPA 508.1	µg/l	ND(DL:0.01)	-	1.0
56	P,P - DDT		µg/l	ND(DL:0.01)	-	1.0
57	O,P - DDE		µg/l	ND(DL:0.01)	-	1.0
58	P,P - DDE		µg/l	ND(DL:0.01)	-	1.0
59	O,P - DDD		µg/l	ND(DL:0.01)	-	1.0
60	P,P - DDD		µg/l	ND(DL:0.01)	-	1.0
61	Alpha - Endosulfan		µg/l	ND(DL:0.01)	-	0.4
62	Beta - Endosulfan		µg/l	ND(DL:0.01)	-	0.4
63	Endosulfansulphate		µg/l	ND(DL:0.01)	-	0.4
64	Ethion		USEPA 1657 A	µg/l	ND(DL:0.01)	-
65	Gamma HCH (Lindane)	USEPA 508.1	µg/l	ND(DL:0.01)	-	2.0
66	Isoproturon	USEPA 532	µg/l	ND(DL:0.01)	-	9.0
67	Malathion	USEPA 8141 A	µg/l	ND(DL:0.01)	-	190
68	Methyl parathion		µg/l	ND(DL:0.01)	-	0.3
69	Monochrotophos		µg/l	ND(DL:0.01)	-	1.0
70	Phorate		µg/l	ND(DL:0.01)	-	2.0

Table 6 : Bacteriological Quality of Drinking Water

[Signature]
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CML/LAB/F/7.8/1



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Discipline: Biological					Group: Water	
71	<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
72	Total Coliform	IS 15185 - 2016 (Reaff.2021)	-	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.....

For Chennai Mettex Lab Private Limited

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



Reviewed & Authorised by
P. KAVITHA
 Technical Manager
 Authorised Signatory

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