

**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

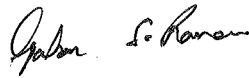
-Vs-

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

...Respondents

REPORT FILED BY THE 6th RESPONDENT

Date: 03.12.2024



**M/s. GAUTAM S. RAMAN
ADVOCATE
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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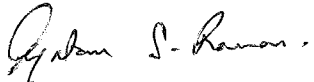
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Dated at Chennai on this the 03rd day of December 2024


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

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/T011418

Test Certificate Date : 13/11/2024

Date of Receipt : 06/11/2024

Customer : SRF Dated : 06/11/2024

Analysis Commenced On : 06/11/2024

Laboratory No : 2504719/001

Analysis Completed On : 13/11/2024

Sample Description : **Treated Water.**
(as stated by customer)

S.No.	Test Parameters	Test Method	Units	Results	Limit as per IS: 10500:2012 (Reaff.2018) 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	Less than 1	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)	-	7.36	6.5 - 8.5	No Relaxation
4	Turbidity	IS 3025 Part 10 - 2023	NTU	Less than 0.5	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	234	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	BDL(DL:0.05)	0.7	No Relaxation
11	Boron as B		mg/l	BDL(DL:0.05)	0.5	2.4
12	Calcium as Ca	IS 3025 Part 40 - 1991 (EDTA titrimetric method)	mg/l	28	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	53.4	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	0.15	1.0	1.5
17	*Residual Free Chlorine	IS: 3025 Part 26-2021	mg/l	BDL(DL:0.1)	0.2 (Min)	1.0 (Min)
18	Iron as Fe	IS 3025 Part 53 -2003 (1, 10 phenanthroline method)	mg/l	BDL(DL:0.01)	1.0	No Relaxation
19	Magnesium as Mg	IS 3025 Part 46 - 2023	mg/l	14.6	30	100
20	Manganese as Mn	IS 3025 part 65 : 2022	mg/l	BDL(DL:0.02)	0.1	0.3

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)
Discipline: Chemical				Group: Water & Residues in Water		
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	2.4	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	19.8	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	IS 3025 Part 23 - 2023	mg/l	113.8	200	600
29	Total Hardness as CaCO ₃	IS 3025 Part 21 - 2009(EDTA titrimetric method)	mg/l	130.0	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:0.01)	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	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

[Signature]
Reviewed & Authorised by
P. KAVITHA

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					Acceptable Limit (Max)	Permissible Limit in the absence of alternate source (Max)	
Discipline: Chemical					Group: Water & Residues in Water		
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	Chlorpyriphos	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	O,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	
62	Alpha - Endosulfan		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	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.2018) With Amendment No: 4 November 2021 with respect to above parameters tested.

Abbreviation: BDL: Below Detection Limit; DL: Detection Limit.* To be applicable only when water is chlorinated.

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

G.S. Radha

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



For Chennai Mettex Lab Private Limited

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

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...Suo Motu

And

The Managing Director,
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...Respondent(s)

REPORT FILED BY THE 6th RESPONDENT

I, K. Uma, D/o. R. Kaliyaperumal aged about 54 years, working as Superintending Engineer (WT&T), CMWSSB having office at No.1 Pumping Station Road, Chintadripet, Chennai 600002 do hereby solemnly affirm and sincerely state as follows:-

01. I am the Superintending Engineer (WT&T), of CMWSSB 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 13.11.2024 at a NABL accredited and CPCB recognized Laboratory viz. M/s. Chennai Mettlex Lab Private Ltd., Guindy, Chennai for complete chemical and biological Analysis. From the enclosed test report received from M/s. Chennai Mettlex Lab Private Ltd, Chennai 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 Mettlex Lab Private Ltd., Chennai is uploaded in NGT Portal.



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

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.




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

Solemnly affirmed at Chennai on this
the 29th day of November, 2024 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

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Advocate :: Chennai.

GAUTAM S. RAMAN

Counsel for 6th Respondent