

BEFORE THE NATIONAL GREEN TRIBUNAL SOUTHERN ZONE, CHENNAI

O.A.No.107 of 2023 (SZ)

IN THE MATTER OF

Tribunal in 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"

AND

The Managing Director,
NLC India Limited,
Chennai and Ors

...Respondents

REPORT FILED BY THE 6th RESPONDENT



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

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Dated at Chennai on this the 24th day of July, 2024



Counsel for 6th Respondent

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

IN THE MATTER OF

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The New Indian Express, dt. 09.08.2023,
under the caption "Huge pollution risk
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of India, Chennai Edition dt. 09.08.2023
under the caption "Water near NLC full
of Mercury".

...Suo Motu

And

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

...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, Chindadripet, 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 04.07.2024 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 obtained from M/s. Chennai Mettex 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.



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CHENNAI METTEX LAB PRIVATE LIMITED



TC-5589

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 Phone : +91 44 22323163, 22311034, 42179490, 42179491 | CIN : U74999TN2008PTC069459
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TEST REPORT

Page: 1 of 3

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/T003950
 Test Certificate Date : 09/07/2024
 Date of Receipt : 04/07/2024
 Analysis Commenced On : 04/07/2024
 Analysis Completed On : 09/07/2024

Customer : SRF Dated : 04/07/2024

Laboratory No : 2501788/001

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

Table 1 : Organoleptic and Physical Parameters						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: 11-1983 (Reaff:	-	7.21	6.5 - 8.5	No Relaxation
4	Turbidity	IS: 3025 Part: 10-1984 (Reaff:	NTU	4.1	1.0	5.0
5	Taste	IS: 3025 Part: 8-1984 (Reaff: 2017)	-	Agreeable	Agreeable	Agreeable
6	Total Dissolved Solids	IS: 3025 Part 16-1984 (Reaff. 2017)	mg/l	422	500	2000

Table 2 : General Parameters Concerning Substances Undesirable in Excess Amounts

Discipline: Chemical

Table 2 : General Parameters Concerning Substances Undesirable in Excess Amounts						Group: Water & Residues in Water
7	Aluminium as Al	IS: 3025 Part 65:2014 (Reaff:2019)	mg/l	0.200	0.03	0.2
8	Ammonia (as total ammonia-N)	IS: 3025 Part 34-1988 (Reaff. 2019)	mg/l	BDL(DL:0.01)	0.5	No Relaxation
9	Anionic Detergents (as MBAS)	IS: 13428 - 2005 (Reaff:2019)	mg/l	BDL(DL:0.01)	0.2	1.0
10	Barium as Ba	IS: 3025 Part 65:2014 (Reaff:2019)	mg/l	0.08	0.7	No Relaxation
11	Boron as B	IS: 3025 Part 65:2014 (Reaff:2019)	mg/l	0.06	0.5	2.4
12	Calcium as Ca	IS: 3025 Part 40:1991 (Reaff: 2019)	mg/l	30	75	200
13	Chloramines as Cl ₂	APHA 23rd Edn.2017-4500-Cl-G	mg/l	BDL(DL:0.1)	4.0	No Relaxation
14	Chloride as Cl	IS: 3025 Part 32-1988 (Reaff. 2019)	mg/l	128.2	250	1000
15	Copper as Cu	IS: 3025 Part 65:2014 (Reaff:2019)	mg/l	BDL(DL:0.02)	0.05	1.5
16	Fluoride as F	APHA-23rd Edn. 2017:4500 F,D	mg/l	0.69	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 (Reaff: 2019)	mg/l	0.22	1.0	No Relaxation
19	Magnesium as Mg	IS: 3025 Part 46:1994 (Reaff: 2019)	mg/l	20.41	30	100
20	Manganese as Mn	IS: 3025 Part 65:2014 (Reaff:2019)	mg/l	0.05	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	IS: 3025 Part:34-1988(Reaff: 2019)	mg/l	8.09	45	No Relaxation
23	Phenolic compounds as C ₆ H ₅ OH	IS: 3025 Part: 43-1992(Reaff: 2019)	mg/l	BDL(DL:0.0005)	0.001	0.002
24	Selenium as Se	IS: 3025 Part 65:2014 (Reaff:2019)	mg/l	BDL(DL:0.005)	0.01	No Relaxation

[Signature]

Reviewed & Authorised by
P. KAVITHA

Technical Manager
 Full In-charge Signatory

NOTE: Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and liable for legal action. Unless otherwise stated the submitted results in this test report refer only to the sample(s) tested and such sample(s) are retained for 15 days from date of testing, except in case of regulatory samples, which will be retained for a specific period as per statutory requirement, while perishable & environmental testing related remnant samples will be discarded consequent upon completion of testing. Samples are not drawn by us unless otherwise stated. This document cannot be reproduced except in full, without prior written approval of the laboratory. This report is for the exclusive use of Chennai Mettex Lab's customer, and is provided in accordance with the agreement between Chennai Mettex Lab and its Customer.

CML/24/25/T003950



CHENNAI METTEX LAB PRIVATE LIMITED

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TC-5589

Test Certificate No : CML/24-25/T003950
 Test Certificate Date : 09/07/2024

S.No	Test Parameters	Test Method	Units	Results	Limit as per IS: 10500:2012 (Reaff.2010) With Amendment No: 4 November 2021		
					Acceptable Limit (Max)	Permissible Limit in the absence of alternate source (Max)	
Group: Water & Residues in Water							
Discipline: Chemical							
56	O.P - DDT	USEPA 508 - 2015	µg/l	BDL(DL:0.01)	-	1.0	
57	P.P - DDT		µg/l	BDL(DL:0.01)	-	1.0	
58	O.P - DDE		µg/l	BDL(DL:0.01)	-	1.0	
59	P.P - DDE		µg/l	BDL(DL:0.01)	-	1.0	
60	O.P - DDD		µg/l	BDL(DL:0.01)	-	1.0	
61	P.P - DDD		µg/l	BDL(DL:0.01)	-	1.0	
62	Alpha - Endosulfan		µg/l	BDL(DL:0.01)	-	0.4	
63	Beta - Endosulfan		µg/l	BDL(DL:0.01)	-	0.4	
64	Endosulfan sulphate		µg/l	BDL(DL:0.01)	-	0.4	
65	Ethion		USEPA 1657A - 2015	µg/l	BDL(DL:0.01)	-	3.0
66	Gamma HCH (Lindane)		USEPA 508 - 2015	µg/l	BDL(DL:0.01)	-	2.0
67	Isoproturon		USEPA 532 - 2015	µg/l	BDL(DL:0.01)	-	9.0
68	Malathion		USEPA 8141A - 2015	µg/l	BDL(DL:0.01)	-	190
69	Methyl parathion			µg/l	BDL(DL:0.01)	-	0.3
70	Monochrotophos	µg/l		BDL(DL:0.005)	-	1.0	
71	Phorate	µg/l		BDL(DL:0.01)	-	2.0	

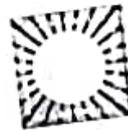
Table 6 : Bacteriological Quality of Drinking Water

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 Permissible limits of drinking water specification as per IS: 10500:2012 (Reaff.2010) 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.
 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