

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

Original Application No.15 of2021 (SZ)

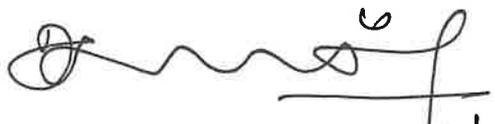
IN THEMATTEROF

Tribunal on its own motion – SUOMOTU Based on the New site, in the Hindu English News Paper dated: 05.01.2021& In Dinamalar Tamil Newspaper dt: 05.01.2021, "White foam observed in Cooum stretch near Napier Bridge".

... Applicant(s)

Versus

- 1) The Chief Secretary to Govt. of Tamil Nadu
Govt. Secretariat, Fort St. George
Chennai, Tamil Nadu – 600 009.
- 2) The Secretary to Govt. of Tamil Nadu
Department of Environment,
Govt. Secretariat, Fort St. George
Chennai, Tamil Nadu – 600 009.
- 3) The Principal Secretary to Govt. of Tamil Nadu
Department of Industries,
Govt. Secretariat, Fort St. George
Chennai, Tamil Nadu – 600 009.
- 4) Additional Chief Secretary to Govt. of Tamil Nadu, Municipal
Administration and Water Supply Department Govt. Secretariat,
Fort St. George
Chennai, TamilNadu-600 009.
- 5) The Director
Department of Environment
No.1, Jeenis Road, Panagal Building, Ground
Floor,
Saidapet, Chennai-600 015.


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- 6) The Chairman
Tamil Nadu Pollution Control Board
No.76, Anna Salai, Guindy, Chennai,
TamilNadu – 600 032.
- 7) The Managing Director
Chennai Metropolitan Water Supply & Sewerage Board
No.1, Pumping Station Road,
Chintadripet, Chennai -600 031.
- 8) The Member Secretary
Tamil Nadu Coastal Zonal Management Authority
No.1, Jeenis Road, Panagal Building,
First Floor, Saidapet, Chennai – 600 015.
- 9) The Member Secretary
Chennai Rivers Restoration Trust No.6,
Adyar Eco-Park, 103,
Dr DGS Dhinakaran Salai,
Raja Annamalai Puram, Chennai – 600 028.
- 10) The Director National Centre for Coastal Research 2nd Floor,
NIOT Campus, Velachery-Tambaram Main Rd,
Pallikaranai, Chennai, TamilNadu – 600 100.
- 11) The District Collector Chennai District
District Collectorate Office
No.62, Rajaji Salai, 4th Floor, Chennai–600 001.
- 12) The Commissioner
Greater Chennai Corporation
Ripon Building, Chennai – 600 003.

... Respondent(s)


Superintending Engineer (North East)
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Chennai-600 002.

ACTION TAKEN REPORT FILED ON BEHALF OF 7th RESPONDENT- CMWSSB

I, A. Malaichamy, S/o. Thiru M. Arumugam, Hindu, aged 59 years working as Superintending Engineer (North East) in-charge of Chennai Metropolitan Water Supply and Sewerage Board having office at No.75, Santhome High Road, MRC Naga, R.A. Puram, Chennai – 600028 do hereby solemnly affirm and sincerely state as follows:

1. I am the Superintending Engineer (North East) in-charge of the Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB), Chennai and 7th Respondent herein are well acquainted with the facts of the case from the connected files.
2. I am filing the action taken report on behalf of the Managing Director, Chennai Metropolitan Water Supply and Sewerage Board, Chennai-28 as per the orders issued by the Hon'ble National Green Tribunal, Chennai on 08.04.2022.
3. I respectfully hereby submit the status of works carried out by Chennai Metropolitan Water Supply and Sewerage Board for the mitigation of sewage outfalls into River Cooum, River Adyar and Buckingham canal within Chennai city.
4. I respectfully hereby submit that in para 6, orders of Hon'ble National Green Tribunal dated 23.03.2022 is as follows:

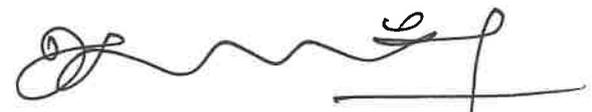
...”1.Learned Counsel appearing for CMWSSB seeks short accommodation to file report.

2. Learned Counsel appearing for Tamilnadu Pollution Control Board is also directed to file the action taken report.

3. Let the reports be exchanged between the parties before next hearing date and get ready for final disposal of the matter.”

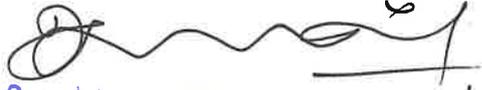
Integrated Cooum River Eco – Restoration Project:

CMWSSB has taken up the implementation of 15 sub-projects. The work components consists of 10 nos of Interception & Diversion arrangements along the river and 3 nos of Modular Sewage Treatment Plants (STPs) for treatment of the diverted Sewage at Chetpet, Nungambakkam and Maduravoyal, one 10 MLD Sewage Treatment Plant (TTUF) at Langs Garden and 1 Under Ground Sewerage Scheme (UGSS) at Nerkundram. Work on 14 sub-projects is in progress as detailed below:


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Interceptor and Diversion works, Modular STPs and Nerkundram UGSS:

Sl. No	Description of Work	Work Progress and %	Status of Work/Remarks
1	Interception and Diversion works :Package 1 – I & D - Chintadripet	100	➤ Work completed. Outfalls plugged – 1 no (CR 65)
2	Interception and Diversion works Package 2 – I & D – Chetpet	100	➤ Work completed. Outfalls plugged – 4 nos (CL8200, CL8300, CI31A, CL31B)
3	Interception and Diversion works Package 3 - I & D – Nungambakkam	100	➤ Work completed. Outfalls to be plugged – 2nos (CL27,CR28) after commissioning of the ModularSTP(Package XII)
4	Interception and Diversion works: Package 4 - I & D - Metha Nagar	100	➤ Work completed. Outfalls plugged -4 nos. (CL31,CR30, CR28(N2), CR 30B)
5	Interception and Diversion works:Package 5 - I & D - Anna Nagar	100	➤ Work completed. Outfalls plugged -4 nos(CL4,CL5,CL6(OE), CL14100)
6	Interception and Diversion works:Package 6 - I & D - Langs Garden Road	100	➤ Work completed. Outfalls to be plugged – 10nos (CL54, CL38, CL2800, CL3150, CL44, CL3800,CL3600, CL4000, CL3400, CL3500) after commissioning of 10MLD TTUF at Langs Garden
7	Interception and Diversion works Package 7 - I & D - South Cooum River Road	100	➤ Work completed Outfall to be plugged – 4 nos (CL 37, CL 36, CL 35,CL 34(N1)) after commissioning of 10MLD TTUF at Langs Garden
8	Interception and Diversion works Package 8 - I & D – Aminjikai	100	➤ Work Completed. Outfalls plugged -6 nos (CR24, CR25, CL11, CR22, CL12(N1), CL12)
9	Interception and Diversion works Package 9 - I & D - NSK Nagar	-	➤ Due to encroachment and no settlement of court case, the work couldn't be taken up. Alternate proposal is being prepared for strengthening the existing sewer system for


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			discharging the additional flow from the encroachment area and outfalls under Mitigation of Sewage Outfalls – Phase-II.
10	Interception and Diversion works Package 10 - I & D - Anna Nagar	100	➤ Work Completed. Outfallsplugged–2 Nos. (CL7, CL9)
11	Modular STP – Package 11 –1.0 MLD, College Road, Chetpet	100	➤ Work Completed.
12	Modular STP- Package 12 – 1.2 MLD- Nungambakkam	77	➤ Work under progress Expected date of completion: 31.08.2022
13	Modular STPs- Package 13 –0.6 MLD – Maduravoyal	-	➤ Modular STP is proposed only for septage management. As the existing nearby sewer pumping station located in Mogappair is sufficient for diversion of sewage (decanted from sewer lorries), the work is dropped and at present no out fall is reported.
14	Modular STP – Package 14 - 10 MLD TTUF at Langs Garden	48	➤ Work under progress Expected date of completion: 31.12.2022.
15	<u>Package 15 - UGSS – Nerkundram</u> UGSS work in Nerkundram comprises of 5 zones namely: <ul style="list-style-type: none"> • Zone 1: Valliammai Nagar • Zone 2: NT Patel Road • Zone 3: Janakiraman colony • Zone 4: Gangai Amman Koil • Zone 5: Ponnammallee High Road 	50	➤ Work is in progress Expected date of completion: 31.03.2023


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Out of 14 packages 9 packages have been completed and out of 37 sewage outfalls 21 nos have been plugged. On completion of the balance works, 16 nos of Sewage Outfalls into River Cooum will be plugged by CMWSSB. CMWSSB has taken up the Under Ground Sewerage Scheme to Nerkundram through which 10 nos of outfalls from Nerkundram will be arrested on providing Sewerage Connections to households. This scheme will be completed in 2023. 'Consent to Establish (CTE)' was obtained from TNPCB for Modular STPs at Chetpet and Nungambakkam on 09.09.2021 and for TTUF at Langs Garden on 24.08.2021. The raw sewage collected will be treated in the Modular STPs and will be let out into water bodies as per TNPCB norms.

Apart from the above outfalls, a Joint committee comprising of officials from CMWSSB, PWD, GCC, DTP, CMA and CRRT, inspected the outfalls into River Cooum from Paruthipattu to its mouth and identified 81 nos of additional outfalls carrying sewage, of which, 20 nos of Outfalls are outside Chennai city. The outfalls outside city limit has to be taken care by respective Municipalities and Town Panchayats.

Regarding the 61 outfalls within Chennai city, CMWSSB is in the process of preparing Interception and Diversion proposals to the nearest collection system / Sewage Pumping Stations as a short term measure and permanent Infrastructure strengthening as a along term measure. The DPRs will be prepared in phased manner. On completion of DPRs, subject will be placed before the Board for necessary approval.

Adyar River Restoration Project from Origin to Mouth:

CRRT Board has approved 56 sub projects of short term plan at a cost of Rs.555.46 Crores to be implemented by various implementing agencies/ line department under Phase-III of Adyar River restoration origin to mouth for plugging of sewage outfalls into Adyar River. Out of 56 sub projects, 14 sub projects are to be implemented by CMWSS Board and the administrative sanction has already been accorded vide MA&WS (MC1) Department GO(MS) No.72 dated 12.07.2017 to a value of Rs. 123.19 Crores.

Of the original 14 sub projects (7 nos of Interception and Diversion works and 7 nos of Modular Sewage Treatment Plant works) prepared for the mitigation of sewage


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outfalls within Chennai city into River Adyar, CMWSSB has taken up 10 works, of which 7 nos of Interception and Diversion works and 3 nos of Modular STP works (1 no of Modular STP undertaken by CMWSSB for Kundrathur Town Panchayat) are under execution along River Adyar.

For Package 2, it involves Interception and Diversion of two outfalls, one out fall is from Kotturpuram slum tenements. As this slum tenements is proposed to be reconstructed by TNUHDB, the outfall will be plugged. Another SWD and 2 additional SWDs in Greenways Avenue are found to be dry and carry only rain water and hence the work is dropped.

Originally for Package 12, modular STP of capacity 1.5 MLD is proposed for treating the 5 nos of outfalls to be intercepted and diverted under package VII. The outfalls in Package VII are later proposed to be diverted to the pumping station which is under construction in Manapakkam UGSS. Hence, the modular STP proposal in Package XII is dropped.

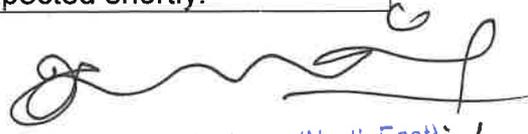
Proposals of Modular STPs for Package 13 & 14 has been dropped due to ongoing sewerage schemes in Manapakkam and Ramapuram& upcoming UGSS proposals in Nandambakkam.

Originally 2 nos of 4 MLD Modular STPs were proposed for Mambalam drain in two packages Pac-9 & Pac-10. By carrying out two works of enlargement of sewer and improvement of pumping main taken up due to ageing and inadequacy under Mitigation of Sewage Outfalls - Phase I works, sewage discharge of 4MLD will be reduced in Mambalam drain. Hence, one no. of 4MLD Modular STP (Package 9) has been dropped and another 4MLD Modular STP (Package 10) is under progress at Toddhunter Nagar.

For one no. of Modular STP proposal at MGR drain in Package 11 has been converted to Interception and Diversion work and is under progress.

The progress of ongoing works is detailed below:

Sl. No	Description of Work	Physical progress of works in % as on June-2022	Status of work / Remarks
1	Package 1 - I & D – Adyar&Kotturpuram	97	➤ All works completed. TNEB power supply connection charges of Rs.11,568/- paid on 24.06.2022. EB supply expected shortly.


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Sl. No	Description of Work	Physical progress of works in % as on June-2022	Status of work / Remarks
2	Package 2 - I & D - Greenways Road & Kotturpuram TNUHDB		Proposal dropped. (TNUHDB proposed to demolish and reconstruct new Kotturpuram slum tenements. Further, 3 nos of SWD in Greenways avenue is carrying only rain water)
3	Package 3 - I & D - Nandanam Extension, Turn Bulls Road & Radhakrishnapuram Slum	100	➤ Work completed. Outfalls plugged – 3 nos. SWL2, SWL 3, SWL4
4	Package 4 - I & D - Mambalam Canal	100	➤ Work completed Outfall plugged -1 No.
5	Package 5 - I & D – Guindy & Ekkattuthanga I	100	➤ Work Completed Outfalls plugged – 9 nos. AR8200, AR21, AR18, AR17, AR14, AR13, AR12, AR10450, AR10850
6	Package 6 - I & D – Samiyar Thottam, Jaffer Khanpet & MGR Drain	100	➤ Work completed 10 outfalls plugged (4 outfalls wet & 6 outfalls dry)
7	Package 7 - I & D - Nandambakkam	24	➤ Construction of suction well in lift station completed. Construction of screen well & suction well in IDPL land under progress
8	Package 8 - Modular STP - Kotturpuram	94	➤ Work completed Awaiting EB connection.
9	Package 9 - Modular STP - Mambalam Canal (P1)		➤ Proposal dropped due to enlargement of sewer and improvement of pumping main taken up under Mitigation of Sewage Outfalls - Phase I works.
10	Package 10 - Modular STP - Mambalam Canal (P2)	79	➤ Erection of electro mechanical equipment and piping works in progress
11	Package 11 - Modular STP - MGR drain	30	➤ Collection well of dia 2.5m and 8m depth completed. Pipe laying works under progress
12	Package 12 – Modular STP - Manapakkam		➤ Proposal dropped. Outfalls are proposed to be intercepted and diverted to ongoing Manapakkam UGSS
13	Package 13 - Modular STP - Nandambakkam		➤ Proposal dropped Underground sewerage schemes in Porur, Ramapuram & Mugalivakkam are in progress
14	Package 14 - Modular STP – Nandambakkam		


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Sl. No	Description of Work	Physical progress of works in % as on June-2022	Status of work / Remarks
15	Package 15 - Modular STP - Kundrathur drain	➤	Land for the construction of Modular STP is allocated inside burial ground. Land was demarcated and handed over on 27.06.2022. Works to be commenced.

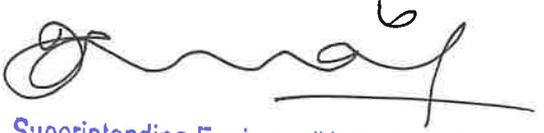
On completion of the above works, 39 nos of Sewage Outfalls into River Adyar within Chennai city will be plugged.

CMWSSB has completed the Under Ground Sewerage Schemes for Porur. The collected sewage from Porur has to be discharged into the terminal pumping station of Ramapuram SPS. At present, CMWSSB is executing the Under Ground Sewerage Schemes to Manapakkam, Ramapuram and Mugalivakkam and works are under progress. On completion of these UGS schemes, CMWSSB will be providing Sewer Connections to all households of these areas, in order to prevent the unauthorized letting out of Sewage into River Adyar.

Mitigation of Sewage Outfalls in Drains of Adyar, Drains of Cooum and Buckingham Canal and its Drains:

Administrative Sanction has been accorded by the Government vide G.O. (Ms) No. 107 MA&WS (MW1) Dept, dt: 20.08.2019. Till date, work Order has been issued for 6 nos of I&D works and 30 nos of Infrastructure Strengthening works amounting to Rs. 364.80 crores and works are under progress. On completion of 36 works, 20 numbers of outfalls will be plugged under the ongoing Mitigation of Sewage Outfalls - Phase I works.

As CMWSSB has already completed the comprehensive Under Ground Sewerage Schemes to Thiruvottiyur, Madhavaram, Puthagaram, Kathirivedu, Kathivakkam, Sholinganallur, Perungudi, Surapet, Karapakkam, UllagaramPuzhuthivakkam and have commenced the UGS Scheme for Ramapuram, Manapakkam, Nerkundram, Pallikaranai and Mugalivakkam, the outfalls into drains in these areas will be mitigated on providing Sewerage Connections to households.


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Moreover, due to non removal of encroachments along Buckingham canal by PWD and TNUHDB, CMWSSB is not in a position to take up the Interception and Diversion proposals along B-Canal and also due to site constraints for proposals for drains of River Coovum and Adyar. Hence, CMWSSB is in process of preparing alternate proposals.

The action taken by CMWSS Board for the mitigation of Sewage Outfalls for prevention of pollution of River Adyar, River Cooum and Buckingham Canal and the status of the ongoing works is hereby submitted before the Hon'ble Green Tribunal for consideration.

It is therefore prayed that this Hon'ble National Green Tribunal may be pleased to accept the report and pass suitable order or orders as this Hon'ble National Green Tribunal may deem fit and thus render justice.

Solemnly affirmed at Chennai)(
on this 7th day of July, 2022)(
and signed his name in my)(
presence.)(
)

Superintending Engineer (North East) i/c
C. M. W. S. S. Board,
Chennai-600 002.

Before me

Advocate, Chennai

I. Rollence Samuel,

BT, CC, MHC, CH-104,