

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL

SOUTHERN ZONE, CHENNAI

**ORIGINAL APPLICATION No 299 of 2013 (SZ)
With
ORIGINAL APPLICATION No 164 of 2014 (SZ)
With
ORIGINAL APPLICATION No 164 of 2015 (SZ)
With
ORIGINAL APPLICATION No 130 of 2016 (SZ)
With
ORIGINAL APPLICATION No 78 of 2020 (SZ)
With
ORIGINAL APPLICATION No 171 of 2021 (SZ)**

IN THE MATTER OF

Tribunal on its own motion on the News item
Reported in The Hindu Dt.25.10.2013
About beach at Adyar Estuary with trash, rubble

... Applicant(s)

-VERSUS-

The Principal Secretary,
Environment & Forests,
Govt. of Tamilnadu, Chennai & ors.

... Respondent(s)

With

P. Edwin Wilson,
Purasaiwalkam, Chennai.

... Applicant(s)

-VERSUS-

The State of Tamil Nadu,
Rep. by its Chief Secretary,
Chennai & ors

... Respondent(s)

With

Jawaharlal Shanmugam,
Thiruvanmiyur, Chennai.

... Applicant(s)

-VERSUS-

Tamil Nadu Pollution Control Board & ors.

... Respondent(s)

With

S. Muthumeena,
Egmore, Chennai

... Applicant(s)

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The Secretary to the Government
PWD, Secretariat, Chennai & Ors.

... Respondent(s)

With

IN THE MATTER OF
Tribunal on its own motion
Suo Moto based on the News Item in the
Times of India, Chennai Edition Newspaper
dt: 03.06.2020, "Sewage from Industries leaves
water bodies covered in hyacinth"

... Applicant(s)

-VERSUS-

The Principal Secretary,
Public Works Department,
Chennai and Ors.

... Respondent(s)

With

IN THE MATTER OF:
Tribunal on its own motion
Suo motu based on the News item
Published in the New Sunday Express
News paper Edition dated 11.07.2021
Under the caption : "Illegal diversion of
sewage Into storm water drains continues."

... Applicant(s)

-VERSUS-

The Chief Secretary, Govt of Tamil Nadu and Ors.

... Respondent(s)

INDEPENDENT REPORT FILED ON BEHALF OF CMWSS BOARD

I, P. Ashok Kumar, Son of Thiru. V. Ponnuvel Hindu aged about 59 years working as Superintending Engineer (Project) VI of Chennai Metropolitan Water Supply and Sewerage Board having office at 2nd floor, Urban Administrative Building, MRC Nagar, Chennai 600 028 do hereby solemnly affirm and sincerely state as follows:

1. I am the Superintending Engineer (P) VI of the Chennai Metropolitan Water Supply and Sewerage Board and as such I am well acquainted with the facts and circumstances of the case.
2. I am filing this status 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 05.10.2021.

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:

"It is seen from the report submitted by the CMWSSB that they dropped Package – 9, due to obstruction by encroachments and non-settlement of Court cases and the establishment of Modular STP as Package – 13 in Maduravoyal was also dropped. But they have not given the reason as to why the Modular STP Package has been dropped and what is the alternate method provided for that purpose. Similarly, as regards the establishment of STPs as Package – 9 is concerned, they have not mentioned as to what is the nature of alternative arrangements made for diverting the sewage water without discharging the same into the Cooum River."

In this regard, it is respectfully submitted that in Package – 9 due to encroachments and non-settlement of court cases, the work order is cancelled and work is dropped. Alternate proposal is being prepared for strengthening the existing sewer system for discharging the additional flow from the encroachment area and outfalls under Mitigation of Sewage Outfalls – Phase-II. For Package – 13, Modular STP is proposed only for decanting facility, but as the existing nearby pumping station is sufficient for diversion of sewage and at present no outfall is reported and hence the proposal is dropped.

5. I respectfully hereby submit that in para 9, orders of Hon'ble National Green Tribunal dated 23.03.2022 is as follows:

"The report submitted by the Chennai River Restoration Trust does not correlate with report submitted by CMWSSB in this regard."

In this regard, it is respectfully submitted that in future, CMWSSB will ensure that the status report furnished by CRRT remains the same.

6. The progress of works are detailed below:

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:

Interceptor and Diversion works, Modular STPs and Nerkundram UGSS:

Sl. No	Description of Work	Work in 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 Modular STP(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 plugged – 10nos (CL54, CL38, CL2800, CL3150, CL44, CL3800,CL3600, CL4000, CL3400, CL3500)
7	Interception and Diversion works Package 7 - I & D - South Cooum River Road	99	➤ Trial commissioning is in progress. Outfalls plugged – 4nos (CL37, CL36, CL35, CL34(N1))
8	Interception and Diversion works Package 8 - I & D – Aminjikarai	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 non settlement of court case, the work couldn't be taken up. Alternate proposal is being prepared for strengthening the existing sewer system for 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	<ul style="list-style-type: none"> ➤ Work Completed. <ul style="list-style-type: none"> • Outfalls plugged–2 Nos. (CL7, CL9)
11	Modular STP – Package 11 –1.0 MLD, College Road, Chetpet	100	<ul style="list-style-type: none"> ➤ NOC from PWD received on 26.06.2019 ➤ CTE obtained on 09.09.2021 ➤ CTO application submitted on 31.03.2022 ➤ Performance guarantee test to be conducted. Work Commissioned.
12	Modular STP- Package 12 – 1.2 MLD- Nungambakkam	72	<ul style="list-style-type: none"> ➤ NOC from PWD received on 25.02.2019. ➤ CTE obtained on 09.09.2021 ➤ <u>Work under progress status :</u> <ol style="list-style-type: none"> 1. Collection tank - Civil work completed 2. Control Room Civil Work completed 3. MBBR vessels 2 Nos- Fabrication completed and painting work under progress 4. Tube settler vessels -2 Nos - Fabrication completed and painting work under progress 5. Filter feed tank 2 Nos- Fabrication completed and painting work under progress 6. Filter vessels, Chlorination and sludge system-To be supplied. 7. Electro mechanical, PLC and Instrumentation works to be started after completion of structural works. 8. Motor, Blowers & D.G. set are procured. 9. Mechanical supplies to be received for executing the work and will be completed at the earliest. ➤ All the works are programmed to be completed by Dec'2022.
13	Modular STPs- Package 13 –0.6 MLD – Maduravoyal		<ul style="list-style-type: none"> ➤ 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	44	<ul style="list-style-type: none"> ➤ CTE obtained on 24.08.2021 ➤ <u>Work under progress status :</u>

	at Langs Garden		<p><u>Civil works:</u></p> <ol style="list-style-type: none"> 1. Admin building cum air blower (98.0%) 2. Raw sewage sump (97.50%) 3. Inlets works (94.54%); 4. Anoxic tank (82.50%) 5. Aeration tank-1No (37.50%) Piling completed 6. Aeration tank 2 (71.50%)- wall completed 7. Secondary clarifier (96.50%) 8. Disc filter((80.25%) 9. UF and Chemical house (37.50%)-Pile work completed 10. UV and product water sump (87.50%) 11. Sludge sump and centrifuge building-(67.50%) 12. Transformer and DG yard (2.0%) -To be started 13. Compound wall - completed <p><u>Mechanical works:</u> Air Blower, MBBR media, Secondary clarifier mechanism, Grit mechanism and Manual screen received at site. Erection under progress. All the works are programmed to be completed by Dec'2022.</p>
15	<p><u>Package 15 - UGSS – Nerkundram</u></p> <p>UGSS work in Nerkundram comprises of 5 zones namely:</p> <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 	45	<ul style="list-style-type: none"> ➤ Presently Works are under progress in Zone 1, 2 and 4 and programmed to complete the entire work at the earliest. ➤ In Zone-5, Road cut permission awaited from NHAI for both zone 5 & 1. Once road cut permission obtained; work will be commenced and will be completed at the earliest. ➤ In Zone-3, enter upon permission for the construction of SPSis accorded by GCC. CMWSSB requested to shift the Ankanwadi to some other location. After the shifting, work will be commenced and will be completed at the earliest possible time. ➤ All the works are programmed to be completed by March'2023.

On completion of the above works, 37 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 long 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 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 April-2022	Status of work / Remarks
1	Package 1 - I & D – Adyar & Kotturpuram	96	➤ Tentative date of completion of Interception and Diversion work will be the end of June'2022. Outfalls will be plugged on commissioning of Modular STP under Package 8.
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	85	➤ Suction well completed and equalisation tank nearing completion. ➤ Diversion arrangements from Mambalam canal to Collection well are under progress. ➤ Tentative date of completion will be end of July'2022.

Sl. no	Description of Work	Physical progress of works in % as on April-2022	Status of work / Remarks
5	Package 5 - I & D – Guindy & Ekkattuthangal	100	<ul style="list-style-type: none"> ➤ Work Completed Outfalls plugged – 9 nos. AR8200, AR21, AR18, AR17, AR14, AR13, AR12, AR10450, AR10850
6	Package 6 - I & D – Samiyar Thottam, Jafferkhanpet & MGR Drain	93	<ul style="list-style-type: none"> ➤ At Jafferkhanpet, all works are completed. Application made for TNEB power supply. ➤ At Neruppumedu, collection system, construction of collection well and laying of pumping main completed ➤ EMI works are under progress. ➤ Tentative date of completion will be end of June'2022.
7	Package 7 - I & D - Nandambakkam	2	<ul style="list-style-type: none"> ➤ Work order issued and work commenced on 01.04.2022. Scheduled date of completion is 31.10.2023.
8	Package 8 - Modular STP - Kotturpuram	92	<ul style="list-style-type: none"> ➤ CTE from TNPCB obtained on 25.01.2022. ➤ Supply and erection of various components of Modular STP are under progress. ➤ Tentative date of completion will be end of July'22.
9	Package 9 - Modular STP - Mambalam Canal (P1)		<ul style="list-style-type: none"> ➤ 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)	76	<ul style="list-style-type: none"> ➤ CTE from TNPCB obtained on 24.08.2021. ➤ Supply and erection of various components of Modular STP are under progress. ➤ Tentative date of completion will be end of Sep'2022 including trial commissioning.
11	Package 11 - Modular STP - MGR drain	9	<ul style="list-style-type: none"> ➤ Original proposal of Modular STP has been dropped. ➤ Revised proposal for I&D works, work order issued on 09.09.2021 and the work has been commenced. ➤ Tentative date of completion will be end of July'2023.
12	Package 12 – Modular STP - Manapakkam		<ul style="list-style-type: none"> ➤ Proposal dropped due to ongoing sewerage schemes in Manapakkam and Ramapuram & upcoming UGSS proposals in Nandambakkam.
13	Package 13 - Modular STP - Nandambakkam		
14	Package 14 - Modular		

Sl. no	Description of Work	Physical progress of works in % as on April-2022	Status of work / Remarks
	STP – Nandambakkam		
15	Package 15 - Modular STP - Kundrathur drain	➤ Work order issued and work to be commenced shortly.	

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 area, 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.

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 Cooum 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.


SUPERINTENDING ENGINEER-VI (P)
C.M.W.S.S. BOARD,
No.1, Pumping Station Road,
Chindadripet, Chennai - 600 002.

Solemnly affirmed at Chennai
on this 24th day of May 2022 and
signed his name in my presence

Before me

 28/1/2021.

I. Pollence Samuel

Advocate : Chennai

No 57, LC, MHC, CH-104.

11th and last page.
No. of corrs:

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BEHALF OF CMWSS BOARD**

**M/s GAUTAM . S. RAMAN
COUNSEL FOR RESPONDENTS**