

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)

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)

-VERSUS-

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

... Respondent(s)

Page No.1
No of corrs.....


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

INDEPENDENT REPORT FILED ON BEHALF OF CMWSS BOARD

I, P. Ashok Kumar, Son of Thiru. V. Ponnuel 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 submit that, with regard to the news article published in Times of India, Times city, Chennai edition dated: 23.09.2021 under the Caption "With no officials to fear, residents let untreated sewage directly into water bodies – Buckingham canal turn into long sewer", the regions mentioned in the article were Navalur, Thalambur and Kelambakkam, which are coming under the purview of the Rural Development and Panchayat Raj Department. A letter has been sent to RD & PR dept by CMWSSB for taking necessary action to plug sewage outfalls in these regions.
4. I respectfully submit that, regarding the disposal of sewage by tanker lorries, the Draft Regulations and Operative Guidelines are under final review of GoTN and on approval, Guidelines will be issued.
5. I respectfully submit that, for laying of pipes in the river or along the bund of river courses, joint inspections were made with PWD officials and CMWSS Board has been instructed to carry out works based on the Bund Height and levels fixed by the Public Works Department. It is asserted that the works are being carried out in coordination with PWD officials.
6. 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. 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 – Chintadripet	100	Work completed.
2	Interception and Diversion works Package 2 - I & D – Chetpet	100	Work completed. To be plugged after commissioning of the Modular STP(Package XI)
3	Interception and Diversion works Package 3 - I & D – Nungambakkam	100	Work completed. To be plugged after commissioning of the Modular STP(Package XII)
4	Interception and Diversion works: Package 4 - I & D - Metha Nagar	100	Work completed.
5	Interception and Diversion works Package 5 - I & D - Anna Nagar	100	Work completed.
6	Interception and Diversion works Package 6 - I & D - Langs Garden Road	99	Trial commissioning is in progress. To be plugged after commissioning of the 10 MLD TTUF at Langs Garden road
7	Interception and Diversion works Package 7 - I & D - South Cooum River Road	99	Trial commissioning is in progress. To be plugged after commissioning of the 10 MLD TTUF at Langs Garden road
8	Interception and Diversion works Package 8 - I & D – Aminjikarai	100	Work Completed.
9	Interception and Diversion works Package 9 - I & D - NSK Nagar	-	Due to encroachment and non settlement of court case, the work order is cancelled.

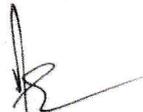
Page No.3
No of corr.....


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10	Interception and Diversion works Package 10 - I & D - Anna Nagar	100	Work Completed. <ul style="list-style-type: none"> • Outfalls to be plugged- 2Nos.
11	Modular STP – Package 11 –1.0 MLD, College Road, Chetpet	99	<ul style="list-style-type: none"> • Physical work completed on 30.11.2021. • Trial operation defect rectification and performance testing are in progress and will be completed at the earliest.
12	Modular STP- Package 12 – 1.2 MLD- Nungambakkam	69.4	<p><u>Work under progress status :</u></p> <ul style="list-style-type: none"> • Collection tank -64%- * Civil work completed • Control Room-66%-Work under progress • MBBR vessels 2 Nos-85%- Fabrication work is in progress • Tube settler vessels -2 Nos 85%-Fabrication work is in progress • Filter feed tank 2 Nos- 88.5%-Fabrication in progress • Filter vessels, Chlorination and sludge system-To be started. • Electro mechanical, PLC and Instrumentation works to be started after completion of structural works. • Mechanical supplies to be received for executing the work and will be completed at the earliest.
13	Modular STPs- Package 13 –0.6 MLD – Maduravoyal		Work dropped

14	Modular STP – Package 14 - 10 MLD TTUF at Langs Garden	41	<p><u>Work under progress status :</u></p> <p><u>Civil works:</u></p> <ul style="list-style-type: none"> • Admin building cum air blower (97.60%) • Raw sewage sump (86.57%) • Inlets works (92.52%);Anoxic tank (82.50%) • Aeration tank- 2Nos(37.50%)Piling completed ;Aeration(59.50%)- Raft completed; wall shuttering in progress • Secondary clarifier (93.50%);Disc filter((80.25%) • UF and Chemical house (84.75%)-Pile work completed; UV and product water sump (84.75%) • Sludge sump and centrifuge building-(50.99%) • Transformer and DG yard-To be started-2% <p><u>Mechanical works:</u></p> <ul style="list-style-type: none"> • Screen, MBBR media, UV disinfection and Grit mechanism supplies commenced from October. Air blower erection under progress. • Works are expected to be completed at the earliest.
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 	40	<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 SPS is awaited from GCC. Once enter upon permission issued by GCC, work will be commenced and will be completed at the earliest possible time.

Page No.5
No of corrs.....


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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 the 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.

CMWSSB, for the identified 61 nos of additional outfalls within Chennai city, 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 long term measures. 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 agency / 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 9 works, of which 6 nos of Interception and Diversion works and 2 nos of Modular STP works are under execution along River Adyar. For one no. of Interception and Diversion work at Nandambakkam, tenders received and under evaluation. Further, 1 no of Modular STP undertaken by CMWSSB for Kundrathur Town Panchayat, for which tender is under evaluation. The progress of ongoing works is detailed below:

Sl. no	Description of Work	Physical progress of works %	Status of work / Remarks
1	Package 1 – Adyar & Kotturpuram	88	➤ Work is in progress and will be completed shortly.
2	Package 2 - I & D - Greenways Road & Kotturpuram TNSCB	Proposal dropped. (TNSCB proposed to demolish and reconstruct new Kotturpuram slum tenements & 3 nos of SWD in Greenways avenue is carrying only rain water)	
3	Package 3 - I & D - Nandanam Extension, Turn Bulls Road & Radhakrishnapuram Slum	99	➤ Work is in progress and nearing completion.
4	Package 4 - I & D - Mambalam Canal	52	➤ Suction well completed and equalisation tank nearing completion. ➤ Diversion arrangements from Mambalam canal to Collection well will be taken up shortly.
5	Package 5 - I & D – Guindy & Ekkattuthangal	100	Work Completed
6	Package 6 - I & D – Samiyar Thottam, Jafferkhanpet & MGR Drain	80	➤ At Jafferkhanpet, collection system, collection well and pumping main works are completed. ➤ At Neruppumedu, collection system, construction of collection well and laying of pumping main are under progress ➤ Supply and erection of Electro Mechanical works are to be taken up and entire work will be completed shortly.
7	Package 7 - I & D - Manapakkam	Tender under evaluation	
8	Package 8 - Modular STP - Kotturpuram	50	➤ CTE from TNPCB obtained on 25.01.2022. ➤ Supply and erection of various components of Modular STP are under progress.

9	Package 9 - Modular STP - Mambalam Canal (P1)	Proposal dropped due to enlargement of sewer and improvement of pumping main taken up under CRRT - Phase I - Plugging of outfalls under Adyar drains project.	
10	Package 10 - Modular STP - Mambalam Canal (P2)	50	<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.
11	Package 11 - Modular STP - MGR drain	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.	
12	Package 12 - Modular STP - Manapakkam	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 STP - Nandambakkam		
15	Package 15 - Modular STP - Kundrathur drain	Tender under evaluation.	

On completion of the above works, CMWSSB will be plugging 39 nos of Sewage Outfalls into River Adyar within Chennai city. Package 7 and 15 for which tender received and under evaluation.

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, 19 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, Kathiruedu, Kathivakkam, Sholinganallur, Perungudi, Surapet, Karapakkam, Ullagaram Puzhuthivakkam 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.

Page No.9
No of corr.....


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15th
Solemnly affirmed at Chennai
on this 15th day of February 2022 and
signed his name in my presence

Before me



Advocate : Chennai

10th and last page.
No.of corrs:

K. Gopi

S.No 702/06

16 Law chambers,
Highcut Builders,

Ch- 104

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**INDEPENDENT REPORT FILED ON
BEHALF OF CMWSS BOARD**

**M/s. G.JANAKIRAMAN
COUNSEL FOR RESPONDENTS**