

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE, CHENNAI.
Original Application No. 180 of 2023 (SZ)
And
Original Application No. 183 of 2023 (SZ)**

SUOMOTU based on the Visual media
titled Chennai Rains Makkalai Vathaikkum
Oil Companies-Shocking Story - Michaung
Ground Report covered by on VIKATAN TV
Chennai dt.06.12.2023

Vs

The District Collector Chennai District
And Ors

...Respondents

With

R.L. Srinivasan, Chennai.

..Applicant

Versus

The Tamil Nadu Coastal Zone
Management Authority,
Chennai and Ors.

...Respondent(s)

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**Advocate for Respondent: TNPCB
Thiru.S. Sai Sathya Jith ,
Advocate, Chennai.**

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

O.A NO. 180 of 2023

AND

O. A NO.183 OF 2023

IN THE MATTER OF

Tribunal on its own motion SUOMOTU based on the Visual media titled Chennai Rains Makkalai Vathaikkum Oil Companies- Shocking Story - Michaung Ground Report covered by on VIKATAN TV Chennai dt.06.12.2023

with

The District Collector Chennai District

And Ors.

...Respondents

AND

R.L. Srinivasan, Chennai.

...Applicant (s)

Versus

The Tamil Nadu Coastal Zone Management Authority,

Rep. by its Member Secretary, Chennai and Ors.

...Respondent(s)

**REPORT FILED ON BEHALF OF THE RESPONDENT -
TAMIL NADU POLLUTION CONTROL BOARD**

I, J. Josephine Sahayarani, D/o. Jesu Rajan, Christian, aged about 57 years, having my office at 76, Mount Salai, Guindy, Chennai – 600 032, do hereby solemnly affirm and sincerely state as follows:-

1. I am the Joint Chief Environmental Engineer, Tamil Nadu Pollution Control Board (TNPCB), Chennai -600 032, and I am authorized to file this Report duly approved by the Chairperson as on behalf of the Respondent Tamil Nadu Pollution Control Board (TNPCB). I am well acquainted with the facts of the case from the records.

J. Josephine Sahayarani
10/11/2024

JOINT CHIEF ENVIRONMENTAL ENGINEER
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2. It is respectfully submitted that as per the Order dated 09.12.2023 passed by the Hon'ble Tribunal in O.A No: 180 of 2023(SZ), a detailed report was filed before this Hon'ble Tribunal on 11.12.2023.
3. It is respectfully submitted that as per the order dated 14.12.2023 passed by the Hon'ble Tribunal in O.A.No.180 of 2023, a detailed status cum action taken report was filed before this Hon'ble Tribunal on 18.12.2023.
4. It is respectfully submitted that as per the order dated 18.12.2023 passed by the Hon'ble Tribunal in O.A.No.180 of 2023 & O.A No:183 of 2023, a detailed status cum action taken report was filed before this Hon'ble Tribunal on 21.12.2023.
5. It is respectfully submitted that the Hon'ble Tribunal in its order dated 21.12.2023 in O.A.No.180 of 2023 & O.A No:183 of 2023 has ordered as follows among others:
 - A. The cleaning process of the oil sludge is to be completed as expeditiously as possible.
 - B. The bio-remediation which is undertaken by the Government, the report regarding the same has to be furnished before the next hearing. If the final report is not available, it is directed to file an interim report.
 - C. Besides watching the north of the south gate for oil leakage, the Pollution Control Board should identify any new location of oil leakage and prevent the same from going into the water body.
 - D. The correspondence between the CPCL and the State Government referred supra may be considered by the Government and come up with workable solution involving the Manali Industries Association which would be useful and help in avoiding any future disaster.
 - E. In the meanwhile, the reports be furnished as to further action taken in this regard by the Pollution Control Board, State Government and CPCL.

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6. It is respectfully submitted that as per the order dated 21.12.2023 passed by the Hon'ble Tribunal in O.A.No.180 of 2023 & O.A No:183 of 2023, I am filing this further status cum action taken report as follows

A. The cleaning process of the oil sludge is to be completed as expeditiously as possible

In this regard action taken report is submitted as follows

a) Manpower Utilization & Materials Recovered

It is respectfully submitted that a detailed report on removal of oily water and oily sludge was already submitted in the earlier report stating that as on 20.12.2023. The total quantity of oil mixed with water removed as on 09.01.2024 is 2,20,240 litres and oil laden soil & debris removed as on 09.01.2024 is 663.5 Tonnes and the same is sent to the CPCL premises for further treatment and disposal. From 12.12.2023 to 31.12.2023, a total of 11125 Nos of manpower were engaged.

From 01.01.2024 to 09.01.2024, a total of 1739 Nos of manpower was utilized for mangrove cleaning and restoration in oil affected areas. In this period, no oil mixed water or oil laden debris were observed and not collected.

b) Machinery & Equipment deployed upto 9.1.2024

On daily basis, the clearing activities were carried out with help of the following machinery and equipment

Machinery/Equipment deployed	
1. For Oil Containment	Quantum
Oil Boom	1380 m
Absorbent Booms	100 m
Absorbent pads	11,500 Nos
2. For Oil Removal	Quantum (on Daily Basis)
Tractors with trailers	2 Nos
Hydracrane	3 Nos
Boats	110 Nos
Gully Suckers	5 – 8 Nos
Pickup trucks	4 Nos
Oil Skimmers	6 Nos

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JCBs	7 Nos
Poclain	4 – 6 Nos
Tippers	11 Nos

c) Status on Clearing of Stretches as on 9.1.2024

It is respectfully submitted that due to continuous efforts taken by Government in co-ordination with CPCL, the oil affected areas were cleared and the completion status is given as follows:

S.No	Stretch Name	Distance (Km)	Agency Engaged	Status of work as on 09.01.2024
1.	Creek Mouth to Ennore Bridge. (Nettu Kuppam, Ennore Kuppam, Thazhan Kuppam, Mugathuvara Kuppam)	1.5	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch
2.	Ennore Bridge to Railway Bridge (Kattukuppakam)	0.35	M/s. Sea care Services, Mumbai	Cleaning work completed in this stretch
3.	Railway Bridge to entrance of Buckingham canal	1.0	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch
4.	Entrance of Buckingham canal to Sivan padai Veedu	0.1	M/s. Vens Hydra Lift Pvt Ltd, Chennai	Cleaning work completed in this stretch
5.	Sivan Padai Veedhi to Sathyamurthy Nagar (Ernavoor Village)	6	M/s. Neo win India Ltd, Chennai	Cleaning work completed in this stretch
6.	Land area near Sathyamurthy Nagar bridge	-	M/s. Neo win India Ltd, Chennai	Cleaning work completed
7.	CMDA steel yard area	-	M/s. Neo win India Ltd, Chennai	Cleaning work completed

Even though the cleaning works were completed in the above stretches, inspection are being carried out on daily basis and if any oil traces are found, action is being taken to remove the same.

Photos taken before and after clearing activity in the above said stretches are enclosed in ANNEXURE - 1

d) Analysis of Surface Water samples and Ambient Air

It is respectfully submitted that the post the oil spill and cleaning activities carried out across Ennore and neighbouring coastal areas.

Surface water samples were collected in the affected area by the

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TNPCB officials and analysed at a NABL accredited private laboratory (17-12-2023 to 28-12-2023), and TNPCB lab for the parameters such as Oil & Grease, Phenolic Compounds and Total Petroleum Hydrocarbon.

e) Variation of Oil & Grease level in water bodies

It is respectfully submitted that the presence of 828 mg/L of Oil & Grease and 48.4 mg/L, Total Phenolic Compounds in the sample collected at Ennore Creek Bridge on 05/12/2023 as against the standards of 10 mg/L and 1.0 mg/L clearly indicates the high oil content in the water bodies. On 07.12.2023, five samples were collected along the Buckingham Canal stretch and near CPCL campus and the Oil & Grease value was varying from 28 mg/L at the Buckingham Canal, near IOCL gate, Tondiarpet to 158 mg/L at Ennore creek. This report clearly indicates that Oil & Grease value in the Buckingham Canal in the upstream of CPCL was lower compared to its level in Ennore creek which is in the downstream of CPCL. The Oil & Grease value was 230 mg/L in the sample collected in the stagnant water in the storm water drain near south gate of CPCL. The high Oil & Grease value in B' Canal in the downstream of CPCL and in the stagnant water in the storm water drain near south gate of CPCL clearly indicate oil leak from CPCL. The Oil & Grease value in the samples collected on 09/12/2023 from storm water ponds inside the CPCL premises ranges from 46 mg/L to 96 mg/L indicates clearly that Oil & Grease got mixed with storm water in the unit of CPCL

f) Variation of Total Petroleum Hydrocarbons (TPH) level in water bodies -

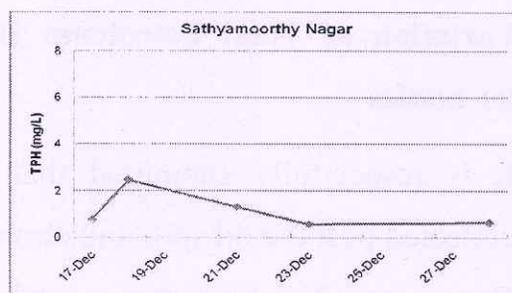
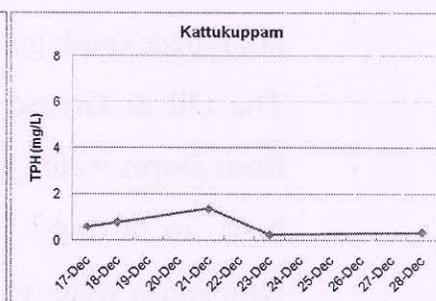
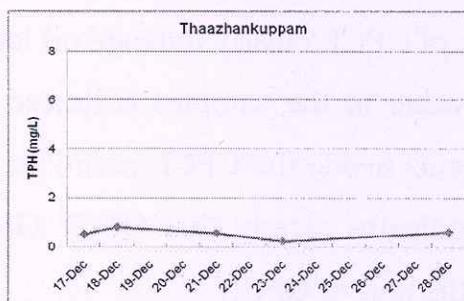
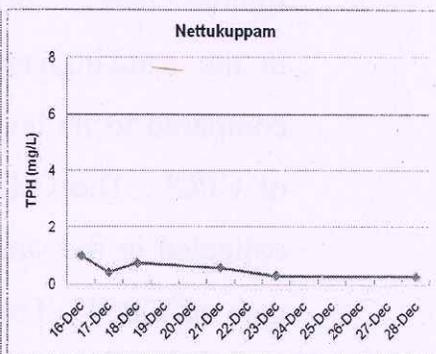
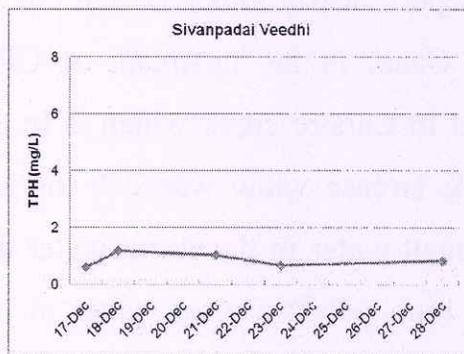
It is respectfully submitted that Surface water samples were collected post the oil spill and cleaning activities carried out across Ennore and Neighbouring coastal areas by the TNPCB officials and analysed at a NABL accredited private laboratory (17-12-2023

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to 28-12-2023). Samples were analysed for Total Petroleum Hydrocarbons (TPH). Results are tabulated below. The decreasing trend of TPH value from 17/12/2023 to 23/12/2023 in most of the locations and the flat graph of the same from 23/12/2023 probably indicates that no fresh contamination of Buckingham Canal is occurring from CPCL which is the major contributor of TPH. The cleaning and remediation activities is responsible for reduction of TPH initially.

Sampling Location	17.12.2023	18.12.2023	21.12.2023	23.12.2023	28.12.2023
Sathyamoorthy Nagar	0.772	2.458	1.302	0.565	0.653
Sivanpadai Veedhi	0.619	1.185	1.034	0.672	0.837
Kattukuppam	0.584	0.775	1.355	0.253	0.344
Thaazhankuppam	0.488	0.787	0.536	0.217	0.576
Nettukuppam	0.402	0.74	0.573	0.294	0.277

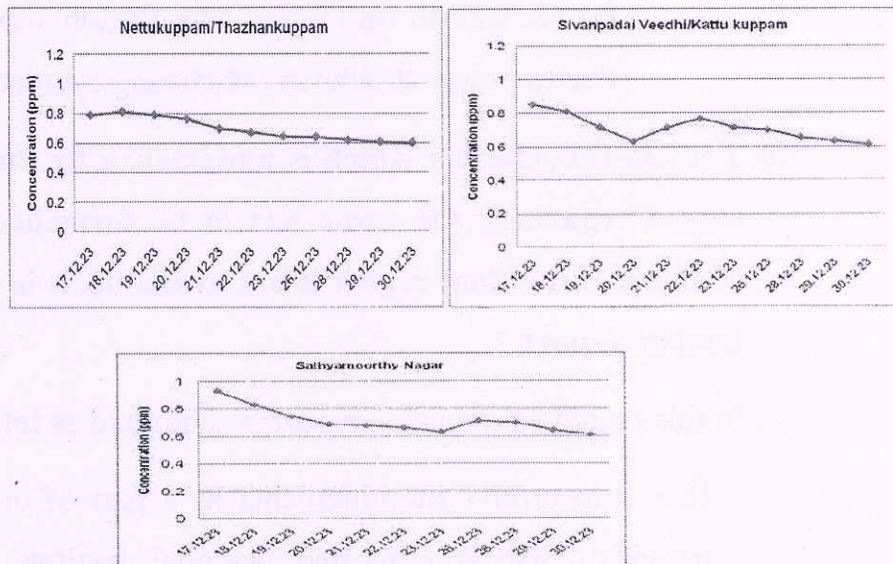



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g) It is respectfully submitted that the post the oil spill and cleaning activities carried out across Ennore and Neighbouring coastal areas. Ambient air quality survey was conducted by the TNPCB and resulted as follows

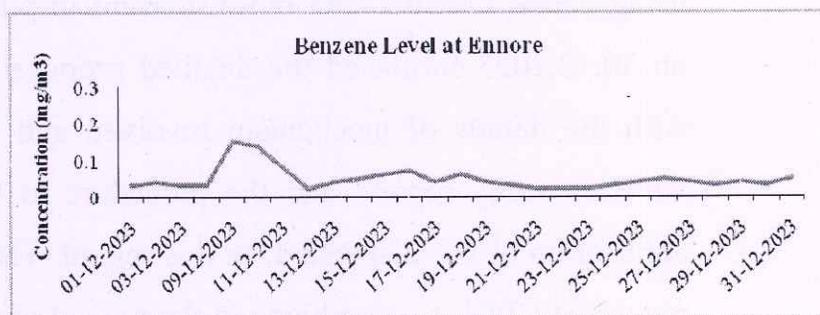
i. **Variation of Total VOC (TVOC) level in the ambient air**

VOC analysis was conducted in five locations covering upstream near IOCL Tondiyarpet Terminal and Near CPCL South Gate and downstream at Sivanpadai Veedhi/Kattukuppam at Nettukuppam/Thazhankuppam and at Sathyamoorthy Nagar of oil-spill affected areas from 17th December 2023 to 30th December 2023.



The trend graph of TVOC results revealed gradual decreasing trend in all the locations due to continuous cleaning work carried out by CPCL under the supervision and guidance of Government of Tamil Nadu

ii. **Variation of Benzene level in the ambient air**



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The variation of benzene level in the ambient air monitored in Continuous Ambient Air Quality Monitoring (CAAQM) Station, Kathivakkam from 01/12/2023 to 31/12/2023 is shown in the following graph. It is inferred from the graph that the concentration of benzene increased slightly from 09.12.2023 to 12.12.2023 in the month of December due to oil spill in the surrounding area. However, the concentration of the Benzene for the month of December 2023 is found to be well within the National Ambient Air Quality prescribed standard (5 microgram/m³ annual average). The concentration of benzene decreased progressively upon the commencement of cleaning activity. Further, from 05.12.2023 to 08.12.2023 the station was not in operation, due to power shutdown (Michaung cyclone).

B. The bio-remediation which is undertaken by the government, the report regarding the same has to be furnished before the next hearing. If the final report is not available, it is directed to file an interim report

In this regard action taken report is submitted as follows

It is respectfully submitted that as a part of oil spillage cleaning activity, TNPCB requested National Institute of Oceanography (NIO), Goa on 16.12.2023 to assist in perambulating the Ennore Creek area, Buckingham Canal, Kosasthalaiyar River and other adjoining water spread areas affected due to oil spillage and to suggest the bio-remediation measures of the above sites. Presently, NIO, Goa is assisting TNPCB in the process of bioremediation by using herbal Green Clean bio-dispersant in pilot level. NIO, Goa on 30.12.2023 furnished the detailed proposal on bio-remediation with the details of mechanism involved and reaction time along with lab study reports and the procedure to be followed for the application of bio-dispersant. In this regard, TNPCB on 30.12.2023 requested CPCL to coordinate in the project proposed by NIO, Goa

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for bioremediation and furnish the daily progress report. CPCL on 03.01.2024 has accepted the proposal of NIO including funding and shall co-ordinate with NIO to carry out bio-remediation process. NIO has commenced its pilot study on 09.01.2024 (photo is enclosed in this report as Annexure – II). After the completion of the study, the final report will be submitted.

C. Besides watching the north of the south gate for oil leakage, the pollution control board should identify any new location of oil leakage and prevent the same from going into the water body –

In this regard action taken report is submitted as follows

a) Oil Assessment Study by Indian Coast Guard (ICG - East)

It is respectfully submitted that TNPCB has addressed Indian Coast Guard (ICG - East) to assess the quantum of oil spill existing in the Ennore Creek, Buckingham Canal and Kosasthalaiyar River & in the sea. Indian Coast Guard vide letter dated 19.12.2023 reported the following are enclosed as ANNEXURE - III

- i. As per survey undertaken on 16.12.2023, it was observed that most of the oil have been deposited in banks of Buckingham canal, Kosthalaiyar river and the floating oil is observed to be leached from sand.
- ii. Maximum oil spilled over surface water viz., Buckingham canal, Kosthalaiyar river and Ennore Creek was calculated to be approximately 11.62 KL. Further traces of spilled oil were found in approximately 20 sq. km area outside Ennore Creek.
- iii. Based on the video footage, the quantity of spilled oil at sea has been calculated which is approximately 12.40 KL.

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- iv. Thus around 24 KL of oil has been calculated to be spilled over water surface due to the incidence.

It is respectfully submitted that Indian Coast Guard vide letter dated 04.01.2024 has informed the following are enclosed as ANNEXURE - IV

- v. The creek area was cleaned by oil spill response specialists contracted by the CPCL and coordinated by various departments
- vi. The oil spill removal operation was undertaken professionally and suitable advice wherever needed was provided by the Coast Guard regularly
- vii. A final aerial survey was undertaken on 29th December 2023 by the Coast Guard and no trace of oil was observed in the water bodies and in the adjoining sea areas was noticed

Coast Guard finally concluded that ICG Ships and Helicopters have been continuously monitoring the situation and it is confirmed that discoloration of water due to other reasons like sewage and other effluents etc. continue to persist in the Buckingham Canal which can be acted by the concerned authorities.

b) Oil Assessment Study by IIT, Madras

It is respectfully submitted that Government entrusted the IIT, Madras to carry out physical measurements of oil depth in canals, water and sediments, flow models to assess the discharge and Occupational safety of workers in Ennore creek, Buckingham canal, Kosasthalaiyar river and other adjoining water spread areas using drones, ocean spill models and satellite imagery. IIT Madras has furnished a proposal at a cost of Rs.1.04 Crores to conduct Environmental Impact Assessment Study of oil spill affected sites at the Ennore Creek so as to

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devise a Management Action Plan for restoration and rejuvenation of the Ennore Creek area. IIT Madras has conducted physical survey by boat & road on 12.12.2023 to 26.12.2023 and identified 19 areas as oil contaminated areas. The Detailed report is awaited from IIT.

D. The correspondence between the CPCL and the state government referred supra may be considered by the government and come up with workable solution involving the manali industries association which would be useful and help in avoiding any future disaster

In this regard action taken report is submitted as follows:

- a) It is respectfully submitted that Forest Department has reported that assessment of damage in Mangrove area was done. Initially, high power Hydrojets and Water sprayers were used to clean the oil slicks spread in the Mangroves. Further, as an alternative plan the following works were carried out.
- i. All the lower branches of the mangroves were disposed off using tree cutting scissors and collected in garbage bags and sent to CPCL for further scientific disposal.
 - ii. The top soil of those affected areas with oil sludge were removed and the locally available fresh soil was topped immediately so as to nullify the extent of damage to the mangroves and create a conducive climate for them.
 - iii. The soil in the area acts as a major factor in rejuvenating the affected mangroves thereby topping of fresh and locally available soil from the nearby islands was started.
 - iv. The process by itself is slow and laborious and the local fishermen are involved in all this cleaning works.

As a strategic and eco-friendly approach to restore coastal ecosystems, plantation of mangroves in a fish-bone creek pattern is under progress.

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b) It is respectfully submitted that Forest Department has reported that the Oil spill had affected many part of the birding areas in and around the creek. Close to 30 birds were found in slightly oiled to heavy oiled condition. A dedicated team of 40 people from Forest department and local fishermen have been deployed to rescue the affected birds. New birds without any trace of oil had started arriving to the Ennore Creek 3 days after the incident. Close to 50 Pelicans, 70 Lesser egrets and 100 Gulls, totalling of 500 Birds were spotted during monitoring which were trying to fish in the Creek area. The number of Heavily impacted birds count had come down from around 60 to 30 in 3 days. Additional Feeding spots have been setup. Observations in other water areas of Chennai City such as Pallikaranai, Adyar Creek etc has shown that the slightly oiled birds have migrated to these areas for better feeding grounds. The Wildlife teams are monitoring these areas on their feeding behaviours. Till date, around 200 Pelicans, 50 Egrets and 30 Painted storks were found oiled. Different strategies were followed to catch the birds for rescue and oil removal which includes feeding station and mist net traps. On December 26th it was observed that the Water quality had become better and more flock of birds were observed. The birds had also resumed hunting for fishes. By January 1, 200+ pelicans were spotted in a new spot for the first time. The operation will continue for the coming days to capture the oiled birds for rehabilitation. A Total of 8 Nos of Birds have been rescued till now and are being treated in Guindy National Park. The rescued birds are being cleaned, treated, fed and closely monitored by a team of veterinarians of the park and the birds have been responding well. The Bird population in the creek is also returning back to normal with reducing oil on surface water. Other water areas such as Pallikaranai, Adyar Creek etc are also being continuously monitored.

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Daily reports on cleaning activities from 12.12.2023 to 20.12.2023 was submitted in the report filed on 21.12.2023. In continuation to that daily report from 21.12.2023 to 09.01.2024 is enclosed in this report as Annexure - V.

7. Further, it is respectfully submitted that directions were issued by the TNPCB to M/s. CPCL on 11.12.2023 under Section 33A of Water (P&CP) Act, 1974 as amended(Annexure). Since M/s. CPCL has not furnished the reply to the directions, a show cause notice was issued to M/s. CPCL vide Proceeding dated 16.12.2023. M/s. CPCL has furnished reply for the direction vide its letter dated 16.12.2023.

a) The details on the directions issued and reply furnished by the unit are as follows:

S.No	Direction issued	CPCL Reply dated 16.12.2023.
i.	M/s. CPCL shall identify hotspots in Buckingham Canal, Ennore Creek and adjoining area where the oil deposits /oil slick are stagnated and take necessary remedial measures on war footing basis.	CPCL, as a major industry of the belt has taken the lead for inspection of the areas and identified hot spots requiring attention. Remedial measures have been undertaken on war footing basis.
ii.	M/s. CPCL and its secondary units and terminals shall ensure that all pipelines (raw materials and products) and tanks are intact with no leakage. If CPCL is found to discharge oil containing water/polluted water against the norms set out for industries under provisions of the Water (Prevention and Control of Pollution)	CPCL clarifies again that Tanks & Pipelines in CPCL are intact and there are no leaks. i. CPCL is designed to withstand waterlogging, with storm water systems designed to handle the highest levels of rainfall. In previous instances, including cyclones Vardah, Gaja, Nivar and the 2015 floods, CPCL has demonstrated its capability to prevent release of water contaminated with oil. ii. Cyclone Michaung brought 36 hours of incessant rain, causing severe flooding in CPCL Manali Refinery. The storm water system of CPCL was handling this flood situation, however, the discharge of 48,000 cusecs of water from Poondi and Puzhal reservoirs worsened the

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	Act, 1974, their operations are liable to be suspended.	<p>situation. The District administration was promptly informed about the situation and CPCL management requested to regulate the discharge of water from the reservoirs to prevent complete flooding of the refinery.</p> <p>ii. All the industries in the Manali area were also affected severely by flooding.</p> <p>iv. Level in canal also increased around 1 m above normal storm water level causing reverse flow. Due to high water levels in the refinery, there is a possibility of comingling of flood water with traces of oil in the refinery, while getting drained in the Canal.</p>
iii.	M/s. CPCL shall also be liable to pay environmental compensation for any damages caused in contravention of the extant provisions under the Water (Prevention and Control of Pollution) Act, 1974.	As explained in previous paras, there was no violation from CPCL's side. The incident occurred due to uncontrolled release of water from reservoirs without prior notice or warning for suitable remedial measures. This is an apt condition of Force Majeure for CPCL.
iv.	M/s. CPCL shall also be liable to pay compensation to the families adversely impacted due to the oil spillage including the loss of livelihood.	CPCL, as a responsible corporate citizen has taken the lead in providing relief measures. Mobile medical units have been deployed in villages near Ennore creek, and medicines handed over. Rice, groceries and other essential items have been handed to over 6000 families through the nodal officer. Cleaning of houses in affected areas has been initiated in coordination with State authorities.
v.	M/s. CPCL shall carry out a Leak Detection & Repair Study (LDAR) with the help of a reputed technical institution and furnish the same to the Board immediately.	CPCL is carrying out Leak Detection & Repair Study every year & submitting reports regularly.
vi.	M/s. CPCL shall undertake a comprehensive	CPCL is in the process of lining up a reputed agency to carry out oil spill mapping. Target for completion of Job:

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	mapping study with a reputed technical institution to identify oil spread areas and furnish the report with Action Plan to the Board immediately.	Jan' 24.
vii.	M/s. CPCL is directed to ensure that no such occurrence happens in future	Will be ensured. However, infrastructure development to avoid flooding of refinery w.r.t. release of water from reservoirs shall be further taken up with Water Resource Department, Government of Tamil Nadu.

- b) It is respectfully submitted that CPCL was instructed to carry out the following on 14.12.2023 and CPCL furnished reply on 18.12.2023.

Instruction	Response by CPCL
Undertake a complete estimation of oil spill in the area with the help of experts, CPCL and Coast Guard	CPCL is coordinating with expert agencies/Coast Guard to ascertain the quantity of oil spill in the area. Details will be shared. Details not yet furnished
Ensure that specialized sea cleaning agencies are immediately deployed with trained and well equipped manpower	CPCL has deployed various machineries and equipment such as oil skimmers, containment booms, absorption booms, oil absorption pads, gully suckers, water jet cleaners
Ensure the deployment of sophisticated machinery and specialized equipment	CPCL has deployed following professional agencies to remove the oil from Ennore Creek Areas M/s. Viraj Clean Sea Enterprises Pvt Ltd M/s. Vens Hydra Lift Pvt Ltd M/s. Sea Care Services M/s. Neowin India Ltd

8. Status of action taken by Other Departments

a) National Centre for Coastal Research (NCCR)

It is respectfully submitted that TNPCB entrusted National Centre for Coastal Research (NCCR), Chennai on 20.12.2023 to analyze surface water, ground water and sediment samples in 10 locations till February 2024. The scope of the work is as follows

J. Sr. 20/11/2024

JOINT CHIEF ENVIRONMENTAL ENGINEER
TAMIL NADU POLLUTION CONTROL BOARD
No.76, MOUNT SALAI, GUINDY,
CHENNAI-600 032.

Location	No. of samples	Parameters analysed
Surface Water	Buckingham Canal - 3	Salinity, Temperature, Dissolved Oxygen, Biochemical Oxygen Demand, Chlorophyl, pH, Suspended Particulate Matter, Nutrients, Total Petroleum Hydrocarbons, Heavy Metals, Dissolved Organic Carbon, Phytoplankton
	Ennore Creek - 6	
	Kosasthalayar River - 1	
Ground Water	10	Heavy Metals, Total Petroleum Hydrocarbons
Sediments	10	Total Petroleum Hydrocarbons, Heavy Metals, Macro Benthos
Sampling Frequency		Weekly twice in Dec 2023 - 4 times Weekly once in Jan 2024 - 4 times Fortnightly in Feb 2024 - 2 times

It is respectfully submitted that NCCR has submitted a preliminary report on 04.01.2024 detailing the collection of surface water and ground water samples. The inference of the analysis is as follows:

- i. The TPH concentrations in surface water are in the range 0.08 mg/L – 1.321 mg/L.
- ii. Apart from station EC-06, which is the confluence point of Buckingham canal in to the Ennore creek, the TPH concentrations were found to be decreasing over the period of sampling.
- iii. TPH concentrations in ground water are in the range BDL - 0.116 mg/L.
- iv. Phytoplankton is an indicator of sensitivity to the changes of physical & chemical characteristics of water. Phytoplankton samples were collected in 5 stations and the population density exhibited higher values at EC 05 & EC 09. The detailed report of NCCR is awaited.

b) Department of Health & Family Welfare

J. S. Suresh
10/11/2024

JOINT CHIEF ENVIRONMENTAL ENGINEER
TAMIL NADU POLLUTION CONTROL BOARD
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CHENNAI-600 032.

It is respectfully submitted that Chennai Petroleum Corporation Limited responded to the medical emergencies and provided medical support to North Chennai region in Ennore / Tiruvottiyur / Manali area. From 9th December 2023, a dedicated Ambulance with Medical Emergency Response Team was stationed continuously during the operation of the Oil recovery and clearance at the Ennore Creek, and is continuing till date. From 9th December 2023, three Mobile Medical Units had visited all houses in the flood affected Ennore area and catered their medical needs. This service was utilized by 5517 beneficiaries for their medical ailments. Essential Medicine for flood relief was delivered by CPCL as requested by Zonal Medical officers, Tiruvottiyur and Manali on 12.12.2023, 14.12.2023, 15.12.2023 & 19.12.2023. On 15.12.2023, Department of Community Medicine, Madras Medical College visited Ennore Creek and inspected the operation. As on 30.12.2023, 5350 people were screened by CPCL Medical team and 15879 people were screened by the Health Department.- ANNEXURE - VI

c) Department of Fisheries

On 11.12.2023, two assessment teams comprising of 13 officials from fisheries department were formed to assess the fishing boats and fishing implements with oil depositions in Ennore creek. (Photo is enclosed in this report as Annexure – VI)

Assessment team has reported that 787 boat owners and 2301 families were affected due to oil discharge at the following villages viz., Sivanpadaikuppam, Kattukuppam, Sathiyavanimuthu nagar, VOC Nagar, Ulaganathapuram Ennore kuppam, Mugathuvarakuppam, Thazhankuppam and

J. for 2000 83
10/11/2024

JOINT CHIEF ENVIRONMENTAL ENGINEER
TAMIL NADU POLLUTION CONTROL BOARD
No.76, MOUNT SALAI, GUINDY,
CHENNAI-600 032.

Nettukuppam. Fish samples have been collected and sent to Tamil Nadu J Jayalalithaa Fisheries University (TNJFU) and National Centre for Coastal Research (NCCR) Chennai for analysis of oil contamination in fish and its consumability for human. The results are awaited.

Further in the High Level Committee meeting held on 16.12.2023 (Annexure), the Government of Tamil Nadu decided to pay the following towards loss of livelihood of fishermen

- i. Sum of Rs. 12,500/- per family towards loss of livelihood of fishermen which will be shared by CPCL (Rs.7500/-) and State Disaster Relief Fund(Rs.5000/-).
- ii. Rs.10,000/- per boat towards cleaning of boats and damages to fishnets
- iii. 6700 nos of affected families will be paid a sum of Rs.7500/- per family which will be completely contributed by CPCL.

The relief amount was disbursed as compensation to the affected boat owners and affected fisher folk families on 22.12.2023.

d) Department of Veterinary Sciences

It is respectfully submitted that the Department of Veterinary Sciences has conducted a veterinary camp in both zone 1 and zone 2 areas that were badly affected by the rain and oil spill. Veterinary health camp was conducted for seven days during which 747 animals were treated (dog, goat, cattle, duck and poultry) .Photo is enclosed in this report as Annexure – VII

e) Department of Fire & Rescue Services

It is respectfully submitted that the Fire & Rescue Services, as an emergency action, fire vehicles were turned out to the

J. Pr. Kumar 10/11/2024

JOINT CHIEF ENVIRONMENTAL ENGINEER
TAMIL NADU POLLUTION CONTROL BOARD
No.76, MOUNT SALAI, GUINDY,
CHENNAI-600 032.

spot immediately to provide protection against any hazard in the vicinity. Manali Fire and Rescue station, station officer inspected the extent of spillage and a QRV and fire tender with 18 fireman commandos with life buoy, life jacket, ropes, scuba diving, foam, BA sets, first aid equipments were deployed at the Nattukuppam estuary to assist the personnel involved in oil spill removal and for taking mitigation action Photo is enclosed in this report as Annexure - VIII

9. Further action against CPCL

A. It is respectfully submitted that based on the directions/showcasue notice issued to CPCL, the JCEE(M), Chennai vide letter dated 09.01.2024 reported the following non compliances with respect to the conditions stipulated in the consent order, direction and Show cause notice issued to the unit:

- a. The unit of M/s. CPCL has not reported the fact on the discharge of oily effluent along with the storm water through the Storm water pond C, D and E. during the flood caused due to the Michaung Cyclone on 03.12.2023 & 04.12.2023.
- b. The unit has not furnished the complete estimate of oil spill caused by the unit in the Buckingham Canal and Ennore Creek area.
- c. The unit has not furnished comprehensive mapping study with a reputed technical institution to identify oil spread areas and to furnish the report with Action Plan to the Board.
- d. Thick oil slick noticed in the storm water drains within the premises of the unit, in the canal leading from the northern side storm water outlet, CMDA steel complex yard, Buckingham Canal, Kosasthalaiyar River, Ennore Creek area, which is evident that huge quantity of oil bearing water has breached from M/s Chennai Petroleum Corporation Ltd., into the Buckingham Canal which has reached the Ennore Creek and affected the livelihood of the fisherman community,

J. J. Kumar 85
6/11/24

JOINT CHIEF ENVIRONMENTAL ENGINEER
TAMIL NADU POLLUTION CONTROL BOARD
No.76, MOUNT SALAI, GUINDY,
CHENNAI-600 032.

Environment, mangroves along the stretch of the Buckingham Canal.

- e. The unit has not provided online sensor for the pollutant parameters such as pH, TSS, TDS & Oil and Grease at the outlet of Pond C and pond located near Refinery-III, which leads to the Buckingham Canal.
- f. The unit has not provided OCEMS for the parameters pH, TSS, COD, BOD & Oil and Grease in the upstream and downstream of Buckingham canal and connects the same to WQW, TNPCB Chennai server and also to ensure the continuous online data transfer.

In view of the above, the JCEE(M), Chennai has recommended to Board dated 9.1.2024 to issue further direction under section 33 of A of the Water (P&CP) 1974 as amended to comply which is under consideration.

Under the above circumstances, it is humbly prayed that this Hon'ble National Green Tribunal may be pleased to pass such further or other orders as this Hon'ble Tribunal may deem fit and proper in the facts of this case and thus render justice.

VERIFICATION

I, J. Josephine Sahayarani, D/o. Jesu Rajan, working as Joint Chief Environmental Engineer, having office at No. 76, Anna Salai, Guindy, Chennai-32, do hereby submit that the above contents are true to the best of my knowledge and belief through records.

J. Josephine Sahayarani
10/1/2024

JOINT CHIEF ENVIRONMENTAL ENGINEER
TAMIL NADU POLLUTION CONTROL BOARD
No.76, MOUNT SALAI, GUINDY,
CHENNAI-600 032.

J. Josephine Sahayarani
10/1/2024

JOINT CHIEF ENVIRONMENTAL ENGINEER
TAMIL NADU POLLUTION CONTROL BOARD
No.76, MOUNT SALAI, GUINDY,
CHENNAI-600 032.

The transformations of oil affected sites at different locations are depicted in figures below:



Thalankuppam Stretch before Cleaning



Thalankuppam Stretch after Cleaning



Nettukuppam Stretch before Cleaning



Nettukuppam Stretch after Cleaning



Ennorekuppam Stretch before Cleaning



Ennorekuppam Stretch after Cleaning



Ennore Bridge - Right Side before Cleaning



Ennore Bridge - Right Side after Cleaning



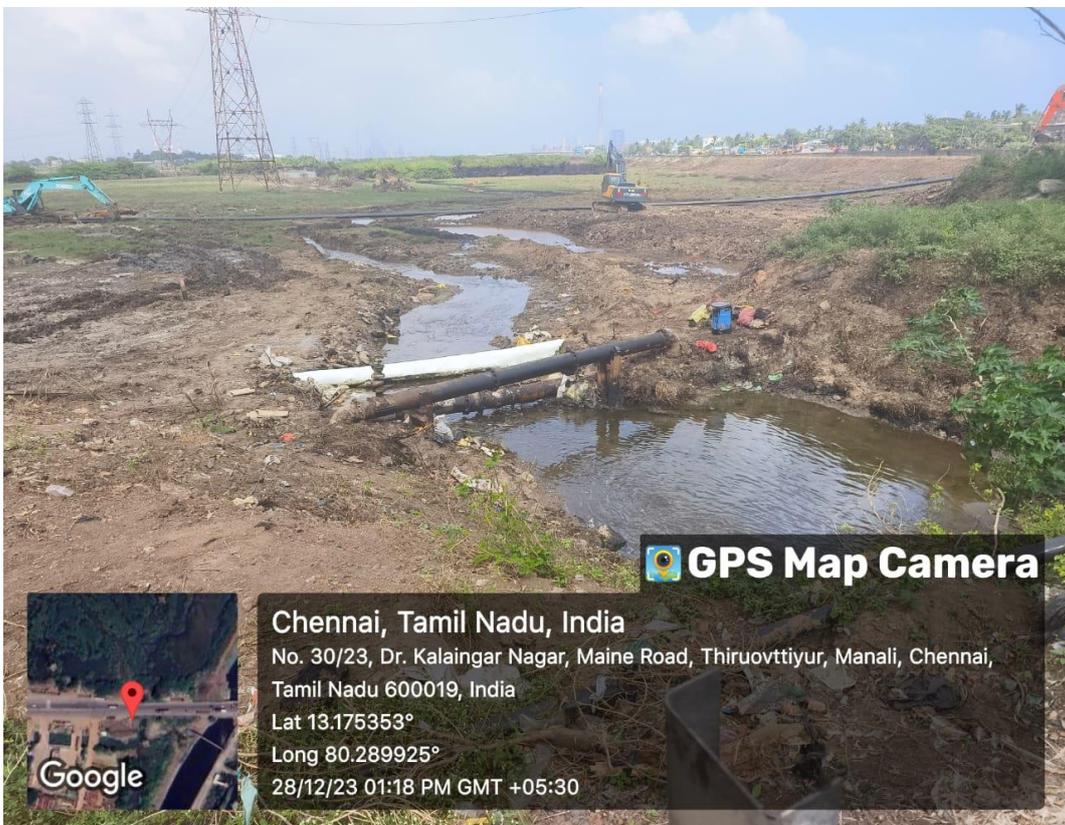
Ennore Bridge - Left Side before Cleaning



Ennore Bridge - Left Side after Cleaning



Sathyamoorthy Nagar before Cleaning



Sathyamoorthy Nagar after Cleaning

Sample Collection by NIO and TNPCB on 09.12.2024

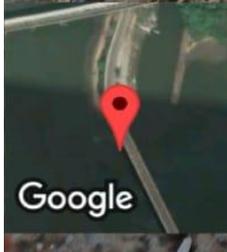




GPS Map Camera



Chennai, Tamil Nadu, India
Unnamed Road, Chennai, Tamil Nadu 600120, India
Lat 13.229932°
Long 80.320092°
09/01/24 04:25 PM GMT +05:30



Chennai, Tamil Nadu, India
Unnamed Road, Chennai, Tamil Nadu 600120, India
Lat 13.231473°
Long 80.317848°
09/01/24 04:46 PM GMT +05:30

GPS Map Camera



Reply should be addressed to
The Commander
Tele: 044-2346 0404



MUKHYALAYA
TATRAKSHAK KSHETRA (POORV)
Headquarters
Coast Guard Region (East)
Near Napier Bridge
Chennai – 600 009

Quoting: 7585

19 Dec 23

The Chairperson
Tamil Nadu Pollution Control Board



**ESTIMATION OF QUANTUM OF OIL SPILL IN ENNORE CREEK/
BUCKINGHAM CANAL/ KOSATHALAIYAR RIVER AREA**

Dear Madam,

1. Kindly refer to your letter T6/TNPCB/F.12753/RL/2023 dated 13 Dec 23.
2. TNPCB vide letter ibid requested assistance of this Headquarters for estimation of quantum of Oil Spill in Ennore Creek, Buckingham Canal and Kosathalaiyar River area. Accordingly, this Headquarters deputed an expert team for quantity assessment of oil spill in the above areas.
3. **Oil Spill Quantity assessment at Ennore Creek/ Buckingham Canal/ Kosathalaiyar River Area.**

(a) **Oiled Area Measurement: -**

Ser	Name of Canal/River	Area in Sq.Mtr	Oiled Area
(i)	Buckingham canal	6100 x 60 = 366000	90% = 329400
(ii)	Kosathalaiyar river	4900 x 260 = 1274000	30% = 382200
(iii)	Ennore creek	1550 x 950 = 1472500	10% = 147250

(b) **Appearance Coverage Allocation: -**

Ser	Name of Canal/River	Sheen	Rainbow	Metal
(i)	Buckingham canal	10%	70%	20%
(ii)	Kosathalaiyar river	10%	40%	10%
(iii)	Ennore creek	10%	30%	10%

(c) **Thickness band of above appearance: -**

- (i) Sheen : 0.04 μm to 0.3 μm
(ii) Rainbow : 0.3 μm to 5.0 μm
(iii) Metal : 5.0 μm to 50 μm

(d) **Minimum Volume of spilled oil calculations: -**

Ser	Name of Canal/River	Sheen (0.04 μm)	Rainbow (0.3 μm)	Metal (5.0 μm)
(i)	Buckingham canal	$(329400 \times 10\%)$ $\times 0.00000004 =$ 0.0013	$(329400 \times 70\%)$ $\times 0.00000003 =$ 0.0692	$(329400 \times 20\%)$ $\times 0.0000005$ $= 0.3294$
(ii)	Kosathalaiyar river	$(382200 \times 10\%)$ $\times 0.00000004 =$ 0.0015	$(382200 \times 70\%)$ $\times 0.00000003 =$ 0.0803	$(382200 \times 20\%)$ $\times 0.0000005$ $= 0.3822$
(iii)	Ennore creek	$(147250 \times 10\%)$ $\times 0.00000004 =$ 0.0006	$(147250 \times 70\%)$ $\times 0.00000003 =$ 0.0309	$(147250 \times 20\%)$ $\times 0.0000005 =$ 0.1473
Minimum Volume of Spilled Oil				1.043 KL Appx

(e) **Maximum Volume of spilled oil calculations: -**

Ser	Name of Canal/River	Sheen (0.3 μm)	Rainbow (5.0 μm)	Metal (50 μm)
(i)	Buckingham canal	$(329400 \times 10\%)$ $\times 0.00000003 =$ 0.009882	$(329400 \times 70\%)$ $\times 0.0000005 =$ 1.1529	$(329400 \times 20\%)$ $\times 0.0000050$ $= 3.294$
(ii)	Kosathalaiyar river	$(382200 \times 10\%)$ $\times 0.00000003 =$ 0.01147	$(382200 \times 70\%)$ $\times 0.0000005 =$ 1.3377	$(382200 \times 20\%)$ $\times 0.0000050 = 3.822$
(iii)	Ennore creek	$(147250 \times 10\%)$ $\times 0.00000003 =$ 0.00442	$(147250 \times 70\%)$ $\times 0.0000005 =$ 0.5154	$(147250 \times 20\%)$ $\times 0.0000050 =$ 1.4725
Maximum Volume of Spilled Oil				11.620 KL Appx

4. **Oil Spill Quantity Assessment at Sea.** The assessment of spill at sea was carried out through aerial recce / ships. It was observed that traces of spilled oil were found in appx 20 Sq.Km area from Kasathalaiyar river mouth to Kasimedu Harbour.

Based on the observation, the quantity assessment is as follows: -

(a) **Oiled Area Measurement**

- (i) Area from Helo data : 20 Sq.Km
 (ii) Area covered with oil : 50%
 (iii) Oiled Area : $20 \times 50\% = 10 \text{ Sq.Km}$

(b) **Appearance Coverage Allocation**

- (i) Sheen : 80 %
 (ii) Rainbow : 20%

(c) **Thickness band of above appearance**

- (i) Sheen : 0.04 μm to 0.3 μm
 (ii) Rainbow : 0.3 μm to 5.0 μm

(d) **Minimum Volume of spilled oil: -**

- (i) Appearance Sheen : $10 \text{ Km}^2 \times 80\% \times 0.04 \mu\text{m} = 0.32 \text{ M}^3$
 (ii) Appearance Rainbow: $10 \text{ Km}^2 \times 20\% \times 0.3 \mu\text{m} = 0.6 \text{ M}^3$
 (iii) **Minimum Volume:** $0.32 \text{ M}^3 + 0.6 \text{ M}^3 = \mathbf{0.92 \text{ M}^3 (0.92 \text{ KL})}$

(e) **Maximum Volume of spilled oil: -**

- (i) Appearance Sheen : $10 \text{ Km}^2 \times 80\% \times 0.3 \mu\text{m} = 2.4 \text{ M}^3$
 (ii) Appearance Rainbow: $10 \text{ Km}^2 \times 20\% \times 5 \mu\text{m} = 10 \text{ M}^3$
 (iii) **Maximum Volume:** $2.4 \text{ M}^3 + 10 \text{ M}^3 = \mathbf{12.4 \text{ M}^3 (12.4 \text{ KL})}$

Regards,

Your sincerely,



(AS Ali)
 Commandant
 Regional Ops & Plans Officer
 for Commander
 Coast Guard Region (East)

E-Mail: dhq5@indiancoastguard.nic.in
 Tele : 044 -2346 0424



MUKHYALAYA
TATRAKSHAK ZILA NO.5 (NTN)
 Headquarters
 Coast Guard District No.5 (N TN)
 Clive Battery Complex
 Rajaji Salai, Chennai – 600 001

717

04 Jan 24

Dr. Jayanthi. M, IFS,
 Chairperson
 Tamil Nadu Pollution Control Board
 76, Mount Salai, Guindy
 Chennai – 600 032

OIL SPILLAGE DUE TO CYCLONE MICHAUNG IN ENNORE CREEK AREA

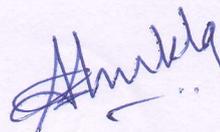
Dear Madam,

1. Refer to TNPCB letter T6/TNPCB/F.12753/RL/2023 dated 03 Jan 24.
2. It is intimated that based on media report on 07 Dec 23, ICG first located Oil Spill employing local Coast Guard Pollution Response Team. Continuous area survey was undertaken thereafter to assess the extent of Oil Spill and quantify the volume of Oil Spilled in creek area and adjoining sea near Kosathalaiyar River mouth to facilitate crucial data of oil spill for concerned Pollution Response agency acting upon as per area of responsibilities.
3. Notwithstanding the containment / recovery action by the polluter, to avoid any damage to coastal eco-system owing to any delay in response by the polluter, ICG undertook necessary response in the affected coastal area on 10 Dec 23 through Helicopter and Ships. The efficacy of the response actions was verified during aerial surveillance on 11 & 12 Dec 23 and it was confirmed to the state authorities during SOS-CMG meeting chaired by Chief Secretary and special meeting of NGT, that oil slick in the coastal water had been contained.
4. In order to analyze the possible effects of spilled / unrecovered oil, a quantum assessment of oil spilled has been undertaken in Ennore creek, Buckingham Canal and Kosathalaiyar river respectively. As per survey undertaken on 16 Dec 23, it was observed that most of the oil have been deposited in banks of Buckingham canal/ Kosthalaiyar river and the floating oil is observed to be leached from sand. Maximum oil spilled over water surface was calculated to be approximately 11.620 KL. Further traces of spilled oil were found in appx 20 Sq. km area outside Ennore Creek. Based on the video footage, the quantity of spilled oil at sea has been calculated. Maximum oil spilled outside Ennore Creek was calculated to be approximately 12.4 KL. Thus approx. 24 KL of oil has been calculated to be spilled over water surface due to the incidence.

5. The Oil Spill in the sea area was responded by the Coast Guard whereas the creek area was cleaned by oil spill response specialists contracted by the CPCL and coordinated by the TNPCB and Tamil Nadu Ministry of Environment. The Oil Spill removal operation was undertaken professionally and suitable advice wherever needed was provided by the Coast Guard regularly. A final aerial survey was undertaken on 29 Dec 23 by the Coast Guard and no trace of oil in the water bodies or at the adjoining sea areas was noticed. However, ICG Ships and Helicopters have been continuously monitoring the situation and it is confirmed that discoloration of water due to other reasons like sewage and other effluents etc. continue to persist in the Buckingham Canal which can be acted by the concerned authorities.

6. Photographs related to oil spill elucidating the status of cleaning operations is also shared as enclosure for better appreciation.

Regards,



(AK Shukla)
Commandant(JG)
Dist Ops and Plans Officer
for Commander, CGDHQ-5(NTN)

Mangrove cleaning & restoration





GPS Map
Camera Lite

6868+H23, Nehru Nagar, Ennore, Chennai, Tamil Nadu 600057, India

Latitude
13.214251666666666°

Longitude
80.31406333333332°

Local 04:37:05 PM
GMT 11:07:05 AM

Altitude 0 meters
Saturday, 06.01.2024



GPS Map Camera



Ennore, Tamil Nadu, India

68F9+7W7, Kathivakkam High School Rd, Kamaraj Nagar,
Talanguppam, Ennore, Chennai, Tamil Nadu 600057, India

Lat 13.223106°

Long 80.318958°

30/12/23 03:50 PM GMT +05:30



Capturing and Treatment of Birds





Rehabilitated Birds





TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date:21-12-2023

Location:Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal &Buckingham canal to Sathyayamurthy Nagar

Activities Carried Out	<ul style="list-style-type: none"> • Oil present on the surface on the bank of Buckingham Canal in Kattukuppakam village were removed by using machinery such as Poclain, JCB. • Cleaning of bunds from Sathyayamurthy Nagar to Ennore Bridge by using power jet wash. • Oil present on the surface in Ennore Bridge to Railway Bridge (Kattukuppakam) is removed using oil absorption pads. 	
Machineries Deployed :	<ul style="list-style-type: none"> • Boats – 80 Nos. • So far installed Booms <ul style="list-style-type: none"> ○ Oil Boom 300 m long installed– Ennore Creek Mouth ○ Two Booms of 325 m long and 275 m at Ennore Bridge ○ Oil Boom 100 m long installed– between Road Bridge and Railway Bridge ○ Oil Boom 80 m long installed – Railway Bridge ○ 50 m long light boom and 50 m hard boom installed - SivanpadaiVeethi ○ 250 m Boom at the mouth of the Buckingham Canal • JCB – 2 Nos. • Truck/ Tipper –11Nos. • Tata ace – 1Nos • Hydras– 2 Nos. • Poclain – 2 Nos. 	
Manpower	CPCL	630 (in Boat = 80 x 4 =320, Machinery labours =22, M/s. Viraj Clean Sea Enterprises - 130, M/s. Sea Care services - 65, M/s. Vens Hydra lift Pvt ltd - 8, M/s. Neowinindia limited-85)
Material Removed :	Oily Water	15,840 litres (72 Nos. of barrels)
	Soil with oil Sludge	12 tons
Detail of Sample Collection :	Surface water samples - 10 numberscollected.	

Number of VOC sample collected:	VOC measured at 10 location.
Photographs if any:	<p data-bbox="384 331 1369 398"><u>Truck with oil waste barrels sent to CPCL permises from Mugathuvara Kuppam:</u></p>  <p data-bbox="451 1066 1302 1133"><u>Waste material collected in polythene bags and stored in the Mugathuvaram bridge:</u></p>  <p data-bbox="464 1821 1289 1888"><u>Unloading of Waste material collected in polythene bags at Mugathuvaram bridge:</u></p>



Storing of Barrels inside the permises of CPCL:



Oil adsorption pads are packed in jumbo bags and the same is loading in the truck :

	
Remarks:	<ul style="list-style-type: none"> • 15,840 litres of oily water has been collected in barrels and sent to CPCL premises for safe storage. • A total of 12 T of oil slick soil was removed and sent to CPCL for safe storage. • Four agencies viz M/s. Viraj Clean Sea Services, M/s. Sea care services, M/s. Vens Hydra Lifts Pvt Ltd & M/s. Neowin India Ltd were engaged by M/s. CPCL for the clean-up operations.
CPCL Official present:	<p>Mr. M.N. Suresh, Senior Manager Mr. Kamala Kannan, DGM Mr. Purushothaman, Manager Mr. T. Ravi, Assistant Manager</p>
Government Official Present:	<ul style="list-style-type: none"> • Tamil Nadu Pollution Control Board • Director of Environment & Climatic Change • Revenue Department, • Greater Chennai Corporation • Fisheries Department • Tamil Nadu Forest Department • Police Department



TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 22-12-2023

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	<ul style="list-style-type: none"> • Cleaning of banks of Buckingham Canal through Poiclain at Sathyamurthy Nagar stretch • Removal of debris, plants with oil on the bunds of B'Canal through JCBs & Poiclains and also manually at Sivanpadai veedhi bridge to Kattukuppam • Oil present on the surface on the bank of Buckingham Canal in Kattukuppakam village were removed by using machinery such as Poiclain, JCB. • Cleaning of bunds from Sathyayamurthy Nagar to Ennore Bridge by using power jet wash. • Oil present on the surface in Ennore Bridge to Railway Bridge (Kattukuppakam) is removed using oil absorption pads. 	
Machineries Deployed:	<ul style="list-style-type: none"> • Boats – 80 Nos. • So far installed Booms <ul style="list-style-type: none"> ○ Oil Boom 300 m long installed – Ennore Creek Mouth ○ Two Booms of 325 m long and 275 m at Ennore Bridge ○ Oil Boom 100 m long installed – between Road Bridge and Railway Bridge ○ Oil Boom 80 m long installed – Railway Bridge ○ 50 m long light boom and 50 m hard boom installed - Sivanpadai Veethi ○ 250 m Boom at the mouth of the Buckingham Canal • JCB – 2 Nos. • Truck/ Tipper – 11 Nos. • Tata ace – 1 Nos • Hydras– 2 Nos. • Poiclain – 2 Nos. 	
Manpower	CPCL	631 (in Boat = 80 x 4 =320, Machinery labours =28, M/s. Viraj Clean Sea Enterprises - 130, M/s. Sea Care services - 65, M/s. Vens Hydra lift Pvt ltd - 8, M/s. Neowin india limited-80)
Material Removed:	Oily Water	3,960 litres (18 Nos. of barrels)
	Soil with oil Sludge	10 tons
Detail of Sample Collection:	NCCR collected Surface water samples - 09 numbers.	
Number of VOC sample collected:	VOC measured at 6 location.	
Photographs if any:	<u>Cleaning the bunds of Buckingham Canal through JCB at Kattukuppam</u>	



Shifting of collected oil waste materials in bags at Mugathuvara Kuppam



Machineries are deployed in cleaning activity at Sathyamurthy Nagar stretch



Receiving of bags containing oil affected materials in boats at Mugathuvara Kuppam



Unloading of barrels containing oily water in CPCL premises



Remarks:

- 3,960 litres of oily water has been collected in barrels and sent to CPCL premises for safe storage.
- A total of 10 T of oil slick soil was removed and sent to CPCL for safe storage.
- The Member Secretary, TNPCB along with the technical committee members constituted by government and Dr.Indumathi M Nambi, IIT Professor have inspected the Sathyamurthy Nagar-B'Canal, CMDA steel complex and CPCL premises
- The Chairperson, TNPCB has inspected the oil spill area and discussed with the NIO scientist for implementation of Bio dispersion work at oil affected stretch on pilot scale basis.
- Additional Chief Secretary, Environment, Climate Change and Forest Department has inspected the oily affected mangroves stretch in presence of the Forest department and TNPCB officials.
- Four agencies Viz M/s. Viraj Clean Sea Services, M/s. Sea care services, M/s. Vens Hydra Lifts Pvt Ltd & M/s. Neowin India Ltd were engaged by M/s. CPCL for the clean-up operations.

CPCL
Official
present:

Mr. M.N.Suresh, Senior Manager
 Mr. Kamala Kannan, DGM
 Mr. Purushothaman, Manager
 Mr. T. Ravi, Assistant Manager

Government
Official
Present:

- Tamil Nadu Pollution Control Board
- Director of Environment & Climatic Change
- Revenue Department,
- Greater Chennai Corporation
- Fisheries Department
- Tamil Nadu Forest Department
- Police Department



TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 23-12-2023

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	<ul style="list-style-type: none"> • Cleaning of banks of Buckingham Canal by using machineries such as JCB, Poclain, Hydras at Sathyamurthy Nagar stretch and CMDA Steel yard • Removal of oil by using skimmer in Buckingham Canal at Sivanpadai veedhi bridge • Removal of plants and debris affected by the oil near Sathyamurthy Nagar 	
Machineries Deployed:	<ul style="list-style-type: none"> • Boats – Nil • So far installed Booms <ul style="list-style-type: none"> ○ Oil Boom 300 m long installed – Ennore Creek Mouth ○ Two Booms of 325 m long and 275 m at Ennore Bridge ○ Oil Boom 100 m long installed – between Road Bridge and Railway Bridge ○ Oil Boom 80 m long installed – Railway Bridge ○ 50 m long light boom and 50 m hard boom installed - Sivanpadai Veethi ○ 250 m Boom at the mouth of the Buckingham Canal • JCB – 5 Nos. • Truck/ Tipper – 13 Nos. • Tata ace – 1 Nos • Tractor-Trailer – 3 No. • Hydras– 2 Nos. • Poclain – 2 Nos. • Gully sucker – 1 No. 	
Manpower	CPCL	242 (in Boat – Nil , Machinery labours =40, M/s. Viraj Clean Sea Enterprises - 120, M/s. Sea Care services - 20, M/s. Vens Hydra lift Pvt Ltd - 2, M/s. Neowin india limited- 60)
Material Removed:	Oily Water	7,920 litres (36 Nos. of barrels)
	Soil with oil Sludge	24 tons
Detail of Sample Collection:	Surface water samples - 10 numbers.	
Number of VOC sample collected:	VOC measured at 10 location.	
Health Camp details	<p>By CPCL : Total screened as on 23.12.2023– 4,500 Nos (Skin related issues – 390 Nos, Respiratory related issues – 590 Nos.)</p> <p>By Health department : Total screened as on 23.12.2023– 12,690 Nos (Skin related issues – 1,879 Nos, Eye irritation issues – 15 Nos.)</p>	
Photographs if any:	<p><u>Manual cleaning of oil affected areas at CMDA Steel yard</u></p>	

Machineries are deployed in cleaning activity at Sathyamurthy Nagar stretch



Loading oil laden soil in the truck near Sathyamurthy nagar land area



Loading of barrels containing oily water at Mugathuvara kuppam



Removal of plants and debris affected by the oil near Sathyamurthy Nagar



Remarks:

- 7,920 litres of oily water has been collected in barrels and sent to CPCL premises for safe storage.
- A total of 24 T of oil slick soil was removed and sent to CPCL for safe storage.
- Four agencies Viz M/s. Viraj Clean Sea Services, M/s. Sea care services, M/s. Vens Hydra Lifts Pvt Ltd & M/s. Neowin India Ltd were engaged by M/s. CPCL for the clean-up operations.
- No boats were involved in the cleaning activities due to protest by the local fishermen's.

**CPCL
Official
present:**

Mr. M.N.Suresh, Senior Manager
 Mr. Kamala Kannan, DGM
 Mr. Purushothaman, Manager
 Mr. T. Ravi, Assistant Manager

**Government
Official
Present:**

- Tamil Nadu Pollution Control Board
- Director of Environment & Climatic Change
- Revenue Department,
- Greater Chennai Corporation
- Fisheries Department
- Tamil Nadu Forest Department
- Police Department



TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 24-12-2023

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	<ul style="list-style-type: none"> • Cleaning of banks of Buckingham Canal by using machineries such as JCB, Poclain, Hydras at Sathyamurthy Nagar stretch, near Sathangadu and CMDA Steel yard • Removal of oily water through gully sucker and manually at CMDA Steel yard premises • Removal of plants, soil and debris affected by the oil near Sathyamurthy Nagar • Oily water sample collected for testing at Sathangadu • Cleaning and removing of oily water and debris by using absorption pads and manually under Ennore Railway bridge area • Cleaning of Mangroves stretches of about 10 m near Kattukuppam temple by using Hydrojet machine 	
Machineries Deployed:	<ul style="list-style-type: none"> • Boats – 80 Nos. • So far installed Booms <ul style="list-style-type: none"> ○ Oil Boom 300 m long installed – Ennore Creek Mouth ○ Two Booms of 325 m long and 275 m at Ennore Bridge ○ Oil Boom 100 m long installed – between Road Bridge and Railway Bridge ○ Oil Boom 80 m long installed – Railway Bridge ○ 50 m long light boom and 50 m hard boom installed - Sivanpadai Veethi ○ 250 m Boom at the mouth of the Buckingham Canal • JCB – 7 Nos. • Truck/ Tipper – 12 Nos. • Tata ace – 1 Nos. • Tractor-Trailer – 2 Nos. • Hydras– 2 Nos. • Poclain – 2 Nos. • Gully sucker – 1 No. 	
Manpower	CPCL	618 (in Boat = 80 x 4 = 320 , Machinery labours =44, M/s. Viraj Clean Sea Enterprises - 125, M/s. Sea Care services - 56, M/s. Vens Hydra lift Pvt ltd - 3, M/s. Neowin india limited- 70)
Material Removed:	Oily Water	12,760 litres (58 Nos. of barrels)
	Soil & debris with oil Sludge	78 tons
Health Camp details	<p>By CPCL : Total screened as on 24.12.2023– 4,540 Nos (Skin related issues – 390 Nos, Respiratory related issues – 590 Nos.)</p> <p>By Health department : Total screened as on 23.12.2023– 12,690 Nos (Skin related issues – 1,879 Nos, Eye irritation issues – 15 Nos.)</p>	
Mangrove Stretches	<p>Cleaning activities carried out in Mangrove stretches reported by the Forest Department</p> <p>Work carried out in Stretch No.1 : Railway Bridge to Kattupuppam (Near Temple area) Stretch cleaned : 150 metres Machinery used: 1 No. oil skimmer, 1 No. hydro jet washer</p>	





Photographs if any:

Cleaning activities carried out through Poclain at CMDA Steel yard area



Machineries are deployed in cleaning activity at Sathyamurthy Nagar stretch



Unloading of oil affected debris and plants in CPCL premises



Oily water collected and filled in barrels at CMDA Steel yard



Loading of barrels containing oily water in the Tipper at Mugathuvvara kuppam



Cleaning activitie in progress under Ennore Railway Bridge



Removal of plants, debris and soil affected by the oil near Sathyamurthy Nagar



Remarks:	<ul style="list-style-type: none"> • 12,760 litres of oily water has been collected in barrels and sent to CPCL premises for safe storage. • A total of 78 T of oil slick soil and debris was removed and sent to CPCL for safe storage. • Oil affected mangrove stretches of about 10 m was cleaned near Kattukuppam temple • Four agencies Viz M/s. Viraj Clean Sea Services, M/s. Sea care services, M/s. Vens Hydra Lifts Pvt Ltd & M/s. Neowin India Ltd were engaged by M/s. CPCL for the clean-up operations.
CPCL Official present:	<p>Mr. M.N.Suresh, Senior Manager Mr. Kamala Kannan, DGM Mr. Purushothaman, Manager Mr. T. Ravi, Assistant Manager</p>
Government Official Present:	<ul style="list-style-type: none"> • Tamil Nadu Pollution Control Board • Director of Environment & Climatic Change • Revenue Department, • Greater Chennai Corporation • Fisheries Department • Tamil Nadu Forest Department • Police Department



TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 25-12-2023

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	<ul style="list-style-type: none"> • Cleaning of banks of Buckingham Canal by using machineries such as JCB, Poclain, Hydras at Sathyamurthy Nagar stretch • Removal of oily water through gully sucker and manually at CMDA Steel yard premises • Cleaning and removal of soil, debris at CMDA Steel yard by using JCB and Poclain • Cleaning and removal of plants, soil and debris affected by the oil through Poclain near Sathyamurthy Nagar. • Cleaning of shores by manually at Nettu Kuppam and Ennore Kuppam area • Cleaning and removing of oily water and debris by using absorption pads and manually under Ennore Railway bridge area • Cleaning of Mangroves stretches of about 50 m near Kattukuppam temple by using Hydrojet machine 	
Machineries Deployed:	<ul style="list-style-type: none"> • Boats – 80 Nos. • So far installed Booms <ul style="list-style-type: none"> ○ Oil Boom 300 m long installed – Ennore Creek Mouth ○ Two Booms of 325 m long and 275 m at Ennore Bridge ○ Oil Boom 100 m long installed – between Road Bridge and Railway Bridge ○ Oil Boom 80 m long installed – Railway Bridge ○ 50 m long light boom and 50 m hard boom installed - Sivanpadai Veethi ○ 250 m Boom at the mouth of the Buckingham Canal • JCB – 7 Nos. • Truck/ Tipper – 21 Nos. • Tata ace – 2 Nos. • Tractor-Trailer – 3 Nos. • Hydras– 2 Nos. • Poclain – 2 Nos. • Gully sucker – 4 No. 	
Manpower	CPCL	690 (in Boat = 80 x 4 = 320 , Machinery labours =99, M/s. Viraj Clean Sea Enterprises - 135, M/s. Sea Care services - 63, M/s. Vens Hydra lift Pvt ltd - 3, M/s. Neowin india limited- 70)
Material Removed:	Oily Water	11,880 litres (54 Nos. of barrels)
	Soil with oil Sludge	28 tons
Health Camp details	<p>By CPCL : Total screened as on 25.12.2023– 4,620 Nos (Skin related issues – 390 Nos, Respiratory related issues – 590 Nos.)</p> <p>By Health department : Total screened as on 23.12.2023– 12,690 Nos (Skin related issues – 1,879 Nos, Eye irritation issues – 15 Nos.)</p>	
Mangrove Stretches	<p>Cleaning activities carried out in Mangrove stretches reported by the Forest Department Work carried out : Kattupuppam (Near Temple area) Stretch cleaned : 50 metres Machinery used: 1 No. oil skimmer, 2 No. hydro jet washer</p> <p>Cleaning of oil affected mangroves was carried out by using hydro jets. The PCCF & Member Secretary, Tamil Nadu Wetland Authority & Chief Mission Director, Green Tamil Nadu Mission (FAC) and DFO Tiruvallur have visited the site and assessed the effectiveness of the hydro jet cleaning. Even though hydro jet washing was done on the leaves, it has not yielded good results. Water mixed with oil is getting flushed back to the</p>	

B'Canal. This process shall take more months with recurrent problem of oil mixed water. Hence it is decided to take out the oiled leaves through harvester like the tea gardens ... and pick those twigs and taking it to the CPCL premises for safe disposal.

As a trial basis selective branch cutting for a stretch of 100 metres will be carried out tomorrow (26-12-2023). After seeing the results, it will be decided to proceed for further stretches.



Stretch -1 : 1000 metres, Stretch-2: 3500 m, Stretch-3: 1000 m, Stretch-4: 9000 m





Photographs if any:

Cleaning activities carried out through Poclaim at CMDA Steel yard area



Removal of oily water out through Gully suckers at CMDA Steel yard area



Unloading of barrels containing oily water in CPCL premises



Cleaning activities in progress at Nettu Kuppam and Ennore Kuppam area



Cleaning activities in progress under Ennore Railway Bridge



Removal of soil and debris affected by the oil through Poclairn near Sathyamurthy Nagar



Remarks:

- 11,880 litres of oily water has been collected in barrels and sent to CPCL premises for safe storage.
- A total of 28 T of oil slick soil was removed and sent to CPCL for safe storage.
- Oil affected mangrove stretches of about 50 m was cleaned near Kattukuppam temple
- Four agencies Viz M/s. Viraj Clean Sea Services, M/s. Sea care services, M/s. Vens Hydra Lifts Pvt Ltd & M/s. Neowin India Ltd were engaged by M/s. CPCL for the clean-up operations.

CPCL Official present:	Mr. M.N.Suresh, Senior Manager Mr. Kamala Kannan, DGM Mr. Purushothaman, Manager Mr. T. Ravi, Assistant Manager
Government Official Present:	<ul style="list-style-type: none">• Tamil Nadu Pollution Control Board• Director of Environment & Climatic Change• Revenue Department,• Greater Chennai Corporation• Fisheries Department• Tamil Nadu Forest Department• Police Department



TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 26-12-2023

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	<ul style="list-style-type: none"> Removal of oily water through gully sucker and manually at CMDA Steel yard premises Cleaning and removal of soil and debris at CMDA Steel yard by using JCB & Poclain Cleaning of banks of Buckingham Canal by using machineries such as JCB, Poclain at Sathyamurthy Nagar stretch Removal of soil and debris affected by the oil through Poclain near Sathyamurthy Nagar. Cleaning and removing of oily water and debris by using absorption pads and manually under Ennore Railway bridge area Cleaning of oil affected Mangrove stretches of about 33 m near Kattukuppam temples 				
Machineries Deployed:	<ul style="list-style-type: none"> Boats –80 Nos. So far installed Booms <ul style="list-style-type: none"> Oil Boom 300 m long installed– Ennore Creek Mouth Two Booms of 325 m long and 275 m at Ennore Bridge Oil Boom 100 m long installed– between Road Bridge and Railway Bridge Oil Boom 80 m long installed – Railway Bridge 50 m long light boom and 50 m hard boom installed - SivanpadaiVeethi 250 m Boom at the mouth of the Buckingham Canal JCB – 10 Nos. Truck/ Tipper –23 Nos. Tata ace – 1 Nos. Tractor-Trailer – 2 Nos. Hydras– 1 Nos. Poclain – 2 Nos. Gully sucker – 4 No. 				
Manpower	CPCL	643 (in Boat =80 x 4 = 320, Machinery labours =64, M/s. Viraj Clean Sea Enterprises - 125, M/s. Sea Care services - 56, M/s. Vens Hydra lift Pvt ltd - 03, M/s. Neowinindia limited- 75)			
Material Removed:	Oily Water	7,920 litres (36 Nos. of barrels)			
	Soil with oil Sludge	48 tons			
Detail of Sample Collection:	NCCR collected Surface water samples – 09 numbers Ground water samples – 08 numbers Mobile CAAQM is being in operation at Sathyamoorthy Nagar.				
Number of VOC sample collected:	VOC measured at 10 location				
Health Camp details	Description		Period	Total Screened (in Nos)	Skin related issues (in Nos)
	By CPCL		as on 26.12.2023	4,760	410
	Mobile camp by Health department		06.12.2023 to 20.12.2023	14,241	2,078
	Static camp by Health department		10.12.2023 to 26.12.2023	1,638	294
Mangrove Stretches	<p>Cleaning activities carried out in Mangrove stretches reported by the Forest Department OIL REMOVAL WORK IN MANGROVES - PROGRESS REPORT (26.12.2023)</p> <p>Total equipment used : 6 boats and 10 branch pruner (6 branch pruner scissors and 4 billhooks)</p> <p>Total manpower used : 10 members for cutting work and 15 members for clearing branches (collection and disposal).</p>				

Total area cleared today : 33 m.

GPS Coordination: 13°13'19"N 80°19'03"E

Total no of removal (collection of mangrove leaves and branches in garbage bags) : 45 bags







Photographs if any:

Removal of oily water and debris by manually below the ennore railway bridge:



Removal of oily water out through Gully suckers at CMDA Steel yard area



Loading of barrels containing oily water in the truck through crane at Mugathurvara Kuppam



Unloading of oily sludge within the CPCL premises



Removal of soil and debris affected by the oil through Poclain and loaded in the truck near Sathyamurthy Nagar



Cleaning of banks of Buckingham Canal by using JCB and manually at Sathyamurthy Nagar stretch



The Chairperson, TNPCB has inspected the Oil spill cleanup activities



Remarks:

- 7,920 litres of oily water has been collected in barrels and sent to CPCL premises for safe storage.
- A total of 48 T of oil slick soil was removed and sent to CPCL for safe storage.
- Oil affected mangrove stretches of about 33 m was cleaned near Kattukuppam temple
- The Chairperson, Tamil Nadu Pollution Control Board has inspected the oil cleanup activities at Sathyamurthy Nagar, Mugathuvara Kuppam, Ennore Railway Bridge and oil affected mangrove stretches near Kattukuppam temple area
- Four agencies Viz M/s. Viraj Clean Sea Services, M/s. Sea care services, M/s. Vens Hydra Lifts Pvt Ltd & M/s. Neowin India Ltd were engaged by M/s. CPCL for the clean-up operations.

CPCL Official present:

Mr.M.N.Suresh, Senior Manager
 Mr. Kamala Kannan, DGM
 Mr.Purushothaman, Manager
 Mr. T. Ravi, Assistant Manager

Government Official Present:

- Tamil Nadu Pollution Control Board
- Director of Environment & Climatic Change
- Revenue Department
- Greater Chennai Corporation
- Fisheries Department
- Tamil Nadu Forest Department
- Police Department



TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 27-12-2023

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	<ul style="list-style-type: none"> • Removal of oily water through gully sucker and by using adsorption boom at CMDA Steel yard premises. • Cleaning of banks of Buckingham Canal by using machineries such as JCB, Poclain at Sathyamurthy Nagar stretch. • Removal of soil and debris affected by the oil through Poclains near Sathyamurthy Nagar. 																		
Machineries Deployed:	<ul style="list-style-type: none"> • Boats – Nil. • So far installed Booms <ul style="list-style-type: none"> ○ Oil Boom 300 m long installed– Ennore Creek Mouth ○ Two Booms of 325 m long and 275 m at Ennore Bridge ○ Oil Boom 100 m long installed– between Road Bridge and Railway Bridge ○ Oil Boom 80 m long installed – Railway Bridge ○ 50 m long light boom and 50 m hard boom installed - SivanpadaiVeethi ○ 250 m Boom at the mouth of the Buckingham Canal • JCB – 7 Nos. • JCB concrete breakers – 2 Nos. • Truck/ Tipper –19 Nos. • Tata ace – 1 Nos. • Tractor-Trailer – 2 Nos. • Hydras– 1 Nos. • Poclain – 2 Nos. • Gully sucker – 4 Nos. 																		
Manpower	CPCL	283 (in Boat- Nil, Machinery labours =73, M/s. Viraj Clean Sea Enterprises - 55, M/s. Sea Care services - 55, M/s. Vens Hydra lift Pvt Ltd - Nil, M/s. Neo win India limited- 100)																	
Material Removed:	Oily Water	4,400 litres (20 Nos. of barrels)																	
	Soil with oil Sludge	70 tons																	
Health Camp details	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Description</th> <th style="width: 20%;">Period</th> <th style="width: 20%;">Total Screened (in Nos)</th> <th style="width: 30%;">Skin related issues (in Nos)</th> </tr> </thead> <tbody> <tr> <td>By CPCL</td> <td>as on 27.12.2023</td> <td>4,950</td> <td>410</td> </tr> <tr> <td>Mobile camp by Health department</td> <td>06.12.2023 to 20.12.2023</td> <td>14,241</td> <td>2,078</td> </tr> <tr> <td>Static camp by Health department</td> <td>10.12.2023 to 26.12.2023</td> <td>1,638</td> <td>294</td> </tr> </tbody> </table>			Description	Period	Total Screened (in Nos)	Skin related issues (in Nos)	By CPCL	as on 27.12.2023	4,950	410	Mobile camp by Health department	06.12.2023 to 20.12.2023	14,241	2,078	Static camp by Health department	10.12.2023 to 26.12.2023	1,638	294
Description	Period	Total Screened (in Nos)	Skin related issues (in Nos)																
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Static camp by Health department	10.12.2023 to 26.12.2023	1,638	294																
Mangrove Stretches	<p>Cleaning activities carried out in Mangrove stretches reported by the Forest Department</p> <p>No work was carried out in oil affected mangrove stretches due to local public protest in Ennore area</p>																		

Photographs if any:

Removal of soil affected by the oil through Poclaim and loaded in the truck near Sathyamurthy Nagar



Oil removal by using adsorption boom at at CMDA Steel yard area



Removal of oily water by using Gully suckers at CMDA Steel yard area



Unloading of barrels containing collected oily water within the CPCL premises



Cleaning of banks of Buckingham Canal by using machineries at Sathyamurthy Nagar stretch



Remarks:

- 4,400 litres of oily water has been collected in barrels and sent to CPCL premises for safe storage.
- A total of 70 T of oil slick soil was removed and sent to CPCL for safe storage.
- Local public protest in ennore area affected the clean-up operations.
- Three agencies Viz M/s. Viraj Clean Sea Services, M/s. Sea care services, & M/s. Neowin India Ltd were engaged by M/s. CPCL for the clean-up operations.

CPCL Official present:

Mr.M.N.Suresh, Senior Manager
 Mr. Kamala Kannan, DGM
 Mr.Purushothaman, Manager
 Mr. T. Ravi, Assistant Manager

Government
Official Present:

- Tamil Nadu Pollution Control Board
- Director of Environment & Climatic Change
- Revenue Department
- Greater Chennai Corporation
- Fisheries Department
- Tamil Nadu Forest Department
- Police Department



TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 28-12-2023

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	<ul style="list-style-type: none"> • Removal of oily water through gully sucker at CMDA Steel yard premises • Cleaning and removal of debris at CMDA Steel yard by using JCB & Poclain • Cleaning and removing of oily water and debris by using absorption pads and manually under Ennore Railway bridge area • Cleaning of oil affected Mangrove stretches of about 80 m near Kattu kuppam 																		
Machineries Deployed:	<ul style="list-style-type: none"> • Boats –80 Nos. • So far installed Booms <ul style="list-style-type: none"> ○ Oil Boom 300 m long installed– Ennore Creek Mouth ○ Two Booms of 325 m long and 275 m at Ennore Bridge ○ Oil Boom 100 m long installed– between Road Bridge and Railway Bridge ○ Oil Boom 80 m long installed – Railway Bridge ○ 50 m long light boom and 50 m hard boom installed - SivanpadaiVeethi ○ 250 m Boom at the mouth of the Buckingham Canal • JCB – 10 Nos. • JCB concrete breakers – 2 Nos. • Truck/ Tipper –20 Nos. • Tata ace – 1 Nos. • Tractor – 2 Nos. • Hydras– 1 Nos. • Poclain – 2 Nos. • Gully sucker – 3 Nos. 																		
Manpower	CPCL	657 (in Boat =80 x 4 = 320, Machinery labours =67, M/s. Viraj Clean Sea Enterprises - 105, M/s. Sea Care services - 65, M/s. Vens Hydra lift Pvt ltd - 0, M/s. Neowin India limited- 100)																	
Material Removed:	Oily Water	7,920 litres (36 Nos. of barrels)																	
	Soil with oil Sludge	Nil																	
Detail of Sample Collection:	Surface water samples – 10 numbers																		
Number of VOC sample collected:	VOC measured at 10 location																		
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Description	Period	Total Screened (in Nos)	Skin related issues (in Nos)																
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Static camp by Health department	10.12.2023 to 26.12.2023	1,638	294																
Mangrove Stretches	<p><u>Cleaning activities carried out in Mangrove stretches as reported by the Forest Department</u></p> <p>The PCCF & Member Secretary, Tamil Nadu Wetland Authority & Chief Mission Director, Green Tamil Nadu Mission (FAC) has inspected the site.</p> <p>Total area cleared today: 80 m stretch at Kattu Kuppam was cleaned by selective pruning of the oil affected branches of Mangroves.</p>																		

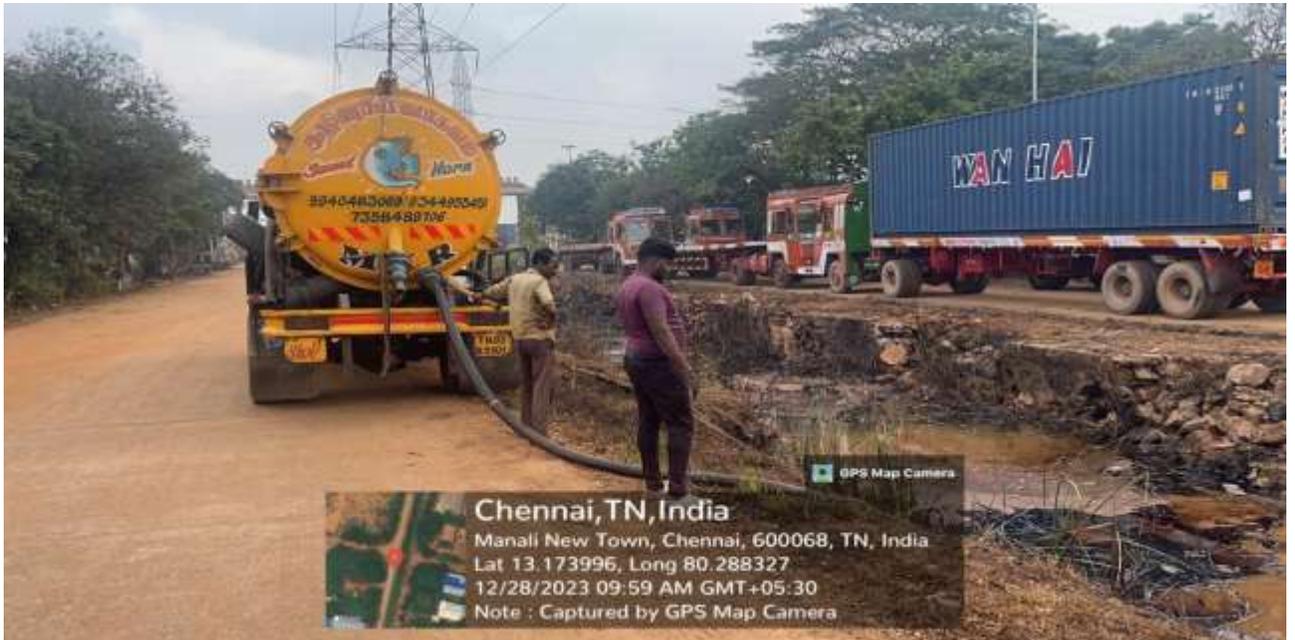


Photographs if any:

Receiving of used contaminated absorption pads in polythene bags at mugathuvaram bridge:



Removal of oily water out through Gully suckers at CMDA Steel yard area



Removal and loading of boulders in the shore line by using machineries such as poclain and breaker at Nettu kuppam and Mukathuvarakuppam area



Cleaning work in progress by using JCB at at CMDA Steel yard area



Loading of barrels containing oily water in the truck at Mugathuvara Kuppam



Unloading of barrels and bags containing oily materials from boats at ennore mugathuvaram bridge



Sprinkling of saw dust over the place near Railway Bridge



Unloading of barrels containing oily water within the CPCL premises



Remarks:	<ul style="list-style-type: none"> 7,920 litres of oily water has been collected in barrels and sent to CPCL premises for safe storage. Oil affected mangrove stretches of about 80 m was cleaned near Kattukuppam. <p align="center">Details of Stretch for oil cleaning operation from Ennore Creek to Buckingham Canal:</p> <table border="1" data-bbox="264 370 1552 1177"> <thead> <tr> <th>Sl. No</th> <th>Stretch Name</th> <th>Distance (Km)</th> <th>Agency Engaged</th> <th>Status of work as on 28.12.2023</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Creek Mouth to Ennore Bridge (Nettu Kuppam, Ennore Kuppam, Thazhan Kuppam, Mugathuvara Kuppam)</td> <td>1.5</td> <td>M/s. Viraj Clean Sea Enterprises, New Delhi</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>2.</td> <td>Ennore Bridge to Railway Bridge (Kattukuppam)</td> <td>0.350</td> <td>M/s.Sea care Services, Mumbai</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>3.</td> <td>Railway Bridge to entrance of Buckingham canal</td> <td>1.0</td> <td>M/s. Viraj Clean Sea Enterprises, New Delhi</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>4.</td> <td>Entrance of Buckingham canal to Sivan padai Veedu</td> <td>0.1</td> <td>M/s.Vens Hydra Lift Pvt Ltd, Chennai</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>5.</td> <td>Sivan Padai Veedhi to Sathyamurthy Nagar</td> <td>6</td> <td>M/s. Neo win India Ltd, Chennai</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>6.</td> <td>Land area near Sathyamurthy Nagar bridge</td> <td>-</td> <td>M/s. Neo win India Ltd, Chennai</td> <td>Work in progress</td> </tr> <tr> <td>7.</td> <td>CMDA steel yard area</td> <td>-</td> <td>M/s. Neo win India Ltd, Chennai</td> <td>Work in progress</td> </tr> </tbody> </table> <p>* Even though the cleaning works were completed in the above 5 stretches (Sl. No 1 to 5), shore cleaning is carried out on daily basis for any carryover of oil due to tidal action</p>	Sl. No	Stretch Name	Distance (Km)	Agency Engaged	Status of work as on 28.12.2023	1.	Creek Mouth to Ennore Bridge (Nettu Kuppam, Ennore Kuppam, Thazhan Kuppam, Mugathuvara Kuppam)	1.5	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	2.	Ennore Bridge to Railway Bridge (Kattukuppam)	0.350	M/s.Sea care Services, Mumbai	Cleaning work completed in this stretch*	3.	Railway Bridge to entrance of Buckingham canal	1.0	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	4.	Entrance of Buckingham canal to Sivan padai Veedu	0.1	M/s.Vens Hydra Lift Pvt Ltd, Chennai	Cleaning work completed in this stretch*	5.	Sivan Padai Veedhi to Sathyamurthy Nagar	6	M/s. Neo win India Ltd, Chennai	Cleaning work completed in this stretch*	6.	Land area near Sathyamurthy Nagar bridge	-	M/s. Neo win India Ltd, Chennai	Work in progress	7.	CMDA steel yard area	-	M/s. Neo win India Ltd, Chennai	Work in progress
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TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 29-12-2023

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	<ul style="list-style-type: none"> • Removal of oily water through gully sucker and also by using oil absorption boom at CMDA Steel yard premises • Cleaning and removal of debris at CMDA Steel yard by using JCB & Poclain • Cleaning and removing of oily water by using soft booms and sludge & debris manually under Ennore Railway bridge area • Cleaning of oil affected Mangrove stretches of about 130 m near Kattu kuppam 				
Machineries Deployed:	<ul style="list-style-type: none"> • Boats –80 Nos. • So far installed Booms <ul style="list-style-type: none"> ○ Oil Boom 300 m long installed– Ennore Creek Mouth ○ Two Booms of 325 m long and 275 m at Ennore Bridge ○ Oil Boom 100 m long installed– between Road Bridge and Railway Bridge ○ Oil Boom 80 m long installed – Railway Bridge ○ 50 m long light boom and 50 m hard boom installed – Sivanpadai Veethi ○ 250 m Boom at the mouth of the Buckingham Canal • JCB – 10 Nos. • Truck/ Tipper – 18 Nos. • Tata ace – 1 Nos. • Tractor trolley – 2 Nos. • Hydras– 1 Nos. • Poclain – 2 Nos. • Gully sucker – 4 Nos. 				
Manpower	CPCL	672 (in Boat =80 x 4 = 320, Machinery labours = 72, M/s. Viraj Clean Sea Enterprises - 105, M/s. Sea Care services - 65, M/s. Vens Hydra lift Pvt ltd - 0, M/s. Neo win india limited- 110)			
Material Removed:	Oily Water	7,920 litres (32 Nos. of barrels- 220 ltr capacity) 900 litres (36 Nos. of barrels- 25 ltr capacity) Total - 8,820 litres			
	Soil with oil Sludge	Nil			
Detail of Sample Collection:	NCCR collected Surface water samples - 09 numbers. Ground water samples – 08 numbers				
Number of VOC sample collected:	VOC measured at 10 location				
Health Camp details	Description		Period	Total Screened (in Nos)	Skin related issues (in Nos)
	By CPCL		as on 29.12.2023	5,255	410
	Mobile camp by Health department		06.12.2023 to 20.12.2023	14,241	2,078
	Static camp by Health department		10.12.2023 to 26.12.2023	1,638	294
Mangrove Stretches	<p>Cleaning activities carried out in Mangrove stretches reported by the Forest Department</p> <p>OIL REMOVAL WORK IN MANGROVES - PROGRESS REPORT (29.12.2023)</p> <p>Equipments used: 6 boats, 10 cutting tools, 1 hydro get, 1 sprayer.</p> <p>Manpower used: 10 for cutting, 2 for hydroget and sprayer and 33 for collection and disposal,</p> <p>Totally 45 members.</p>				

Clearing sites: Total three sites, the first 2 sites are on the right and left side of the temple and the third side is located at kattukuppam near B. Canal.

GPS Coordinates:- Site 1: 13.2222889 N, 80.3177901 E, Site 2: 13.2217650 N, 80.3175302 E, Site 3 : 13.2175102 N, 80.2175103 E.

Today cleared area: 130 m (site 1-50 m, site 2-40 m, site 3- 40 m)

Collection of wastes in bags: 30 bags.



Photographs
if any:

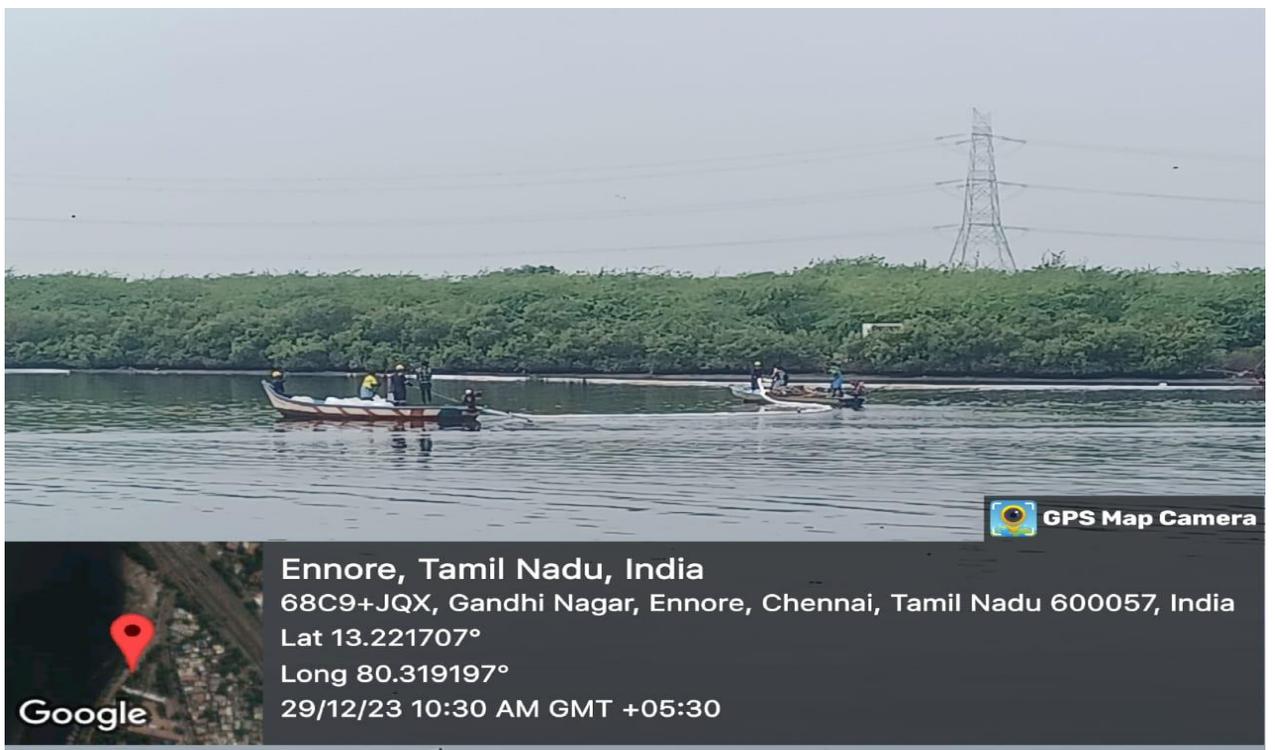
Collection of Surface water sample by NCCR team



Cleaning of bunds of Buckingham Canal by using JCB at Sathyamoorthy Nagar



Scooping of oil from water surface by using soft booms near Kattukuppam temple area



Cleaning work in progress under Ennore Railway Bridge



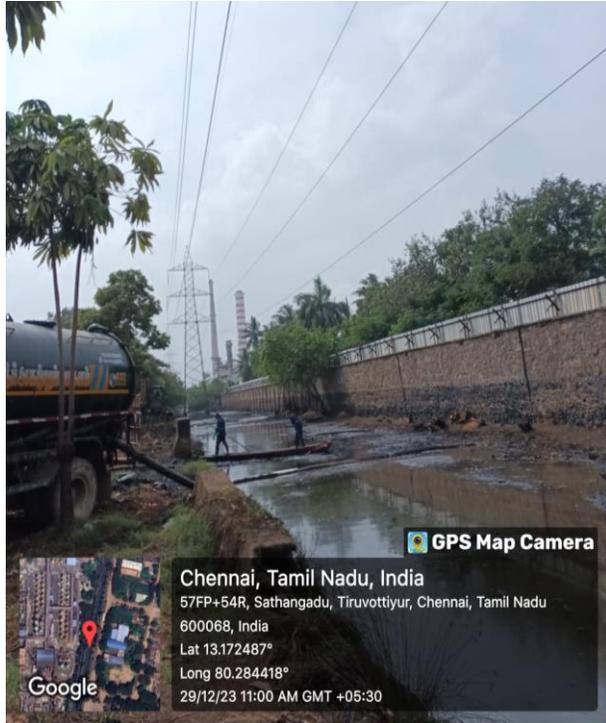
Unloading of barrels containing oily water from boats at Mugathuvara Kuppam



Removal of oil from water surface by using soft boom near Ennore Railway bridge



Removal of oily water out through Gully suckers and manually at CMDA Steel yard area



Unloading of barrels containing oily water within the CPCL premises



Remarks:	<ul style="list-style-type: none"> • 8,820 litres of oily water has been collected in barrels and sent to CPCL premises for safe storage. • Oil affected mangrove stretches of about 130 m was cleaned near Kattukuppam. <p align="center">Details of Stretch for oil cleaning operation from Ennore Creek to Buckingham Canal:</p> <table border="1"> <thead> <tr> <th>Sl. No</th> <th>Stretch Name</th> <th>Distance (Km)</th> <th>Agency Engaged</th> <th>Status of work as on 29.12.2023</th> <th>Details of oily water and oily sludge removed from 12.12.2023 onwards</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Creek Mouth to Ennore Bridge (Nettu Kuppam, Ennore Kuppam, Thazhan Kuppam, Mugathuvara Kuppam)</td> <td>1.5</td> <td>M/s. Viraj Clean Sea Enterprises, New Delhi</td> <td>Cleaning work completed in this stretch*</td> <td rowspan="7">Total quantity of oily water removed as on 29.12.2023 is 2,14,820 litres and oily sludge removed as on 29.12.2023 is 663.5 Tonnes and the same is sent to the CPCL premises for further treatment and disposal.</td> </tr> <tr> <td>2.</td> <td>Ennore Bridge to Railway Bridge (Kattukuppakam)</td> <td>0.350</td> <td>M/s.Sea care Services, Mumbai</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>3.</td> <td>Railway Bridge to entrance of Buckingham canal</td> <td>1.0</td> <td>M/s. Viraj Clean Sea Enterprises, New Delhi</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>4.</td> <td>Entrance of Buckingham canal to Sivan padai Veedu</td> <td>0.1</td> <td>M/s.Vens Hydra Lift Pvt Ltd, Chennai</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>5.</td> <td>Sivan Padai Veedhi to Sathyamurthy Nagar</td> <td>6</td> <td>M/s. Neo win India Ltd, Chennai</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>6.</td> <td>Land area near Sathyamurthy Nagar bridge</td> <td>-</td> <td>M/s. Neo win India Ltd, Chennai</td> <td>Work in progress</td> </tr> <tr> <td>7.</td> <td>CMDA steel yard area</td> <td>-</td> <td>M/s. Neo win India Ltd, Chennai</td> <td>Work in progress</td> </tr> </tbody> </table> <p>* Even though the cleaning works were completed in the above 5 stretches (Sl. No 1 to 5), shore cleaning is carried out on daily basis for any carryover of oil due to tidal action</p>	Sl. No	Stretch Name	Distance (Km)	Agency Engaged	Status of work as on 29.12.2023	Details of oily water and oily sludge removed from 12.12.2023 onwards	1.	Creek Mouth to Ennore Bridge (Nettu Kuppam, Ennore Kuppam, Thazhan Kuppam, Mugathuvara Kuppam)	1.5	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	Total quantity of oily water removed as on 29.12.2023 is 2,14,820 litres and oily sludge removed as on 29.12.2023 is 663.5 Tonnes and the same is sent to the CPCL premises for further treatment and disposal.	2.	Ennore Bridge to Railway Bridge (Kattukuppakam)	0.350	M/s.Sea care Services, Mumbai	Cleaning work completed in this stretch*	3.	Railway Bridge to entrance of Buckingham canal	1.0	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	4.	Entrance of Buckingham canal to Sivan padai Veedu	0.1	M/s.Vens Hydra Lift Pvt Ltd, Chennai	Cleaning work completed in this stretch*	5.	Sivan Padai Veedhi to Sathyamurthy Nagar	6	M/s. Neo win India Ltd, Chennai	Cleaning work completed in this stretch*	6.	Land area near Sathyamurthy Nagar bridge	-	M/s. Neo win India Ltd, Chennai	Work in progress	7.	CMDA steel yard area	-	M/s. Neo win India Ltd, Chennai	Work in progress
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TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 30-12-2023

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	<ul style="list-style-type: none"> • Cleaning and removing of oily water by using soft booms and sludge & debris manually under Ennore Railway bridge area • Removal of oily water through gully sucker and also by using oil absorption boom at CMDA Steel yard premises • Cleaning and removal of debris at CMDA Steel yard by using JCB & Poclain • Cleaning of oil affected Mangrove stretches of about 100 m near Kattu kuppam 																		
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Manpower	CPCL	641 (in Boat =80 x 4 = 320, Machinery labours = 71, M/s. Viraj Clean Sea Enterprises - 85, M/s. Sea Care services - 60, M/s. Vens Hydra lift Pvt ltd - 0, M/s. Neo win india limited- 105)																	
Material Removed:	Oily Water	500 litres (20 Nos. of barrels- 25 ltr capacity) 1,920 litres (32 Nos. of barrels- 60 ltr capacity) Total – 2,420 litres																	
	Soil with oil Sludge	Nil																	
Detail of Sample Collection:	Surface water samples - 10 numbers																		
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Photographs if any:

Collection of Surface water sample by TNPCB



Cleaning and removal of debris manually under Ennore Railway Bridge



Removal of oily water out through Gully suckers at CMDA Steel yard area



Unloading of barrels containing oily water within CPCL premises



The Additional Chief Secretary, Environment, Climate Change & Forest department and The Chairperson, Tamil Nadu Pollution Control Board have inspected the oil clean-up operation at Ennore area



Remarks:	<ul style="list-style-type: none"> • 2,420 litres of oily water has been collected in barrels and sent to CPCL premises for safe storage. • Oil affected mangrove stretches of about 100 m was cleaned near Kattukuppam. • The Additional Chief Secretary, Environment, Climate Change, The Chairperson, Tamil Nadu Pollution Control Board and Forest Department officials have inspected the oil clean-up operation at Ennore area <p style="text-align: center;">Details of Stretch for oil cleaning operation from Ennore Creek to Buckingham Canal:</p> <table border="1" data-bbox="266 540 1560 1569"> <thead> <tr> <th>Sl. No</th> <th>Stretch Name</th> <th>Distance (Km)</th> <th>Agency Engaged</th> <th>Status of work as on 29.12.2023</th> <th>Details of oily water and oily sludge removed from 12.12.2023 onwards</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Creek Mouth to Ennore Bridge (Nettu Kuppam, Ennore Kuppam, Thazhan Kuppam, Mugathuvara Kuppam)</td> <td>1.5</td> <td>M/s. Viraj Clean Sea Enterprises, New Delhi</td> <td>Cleaning work completed in this stretch*</td> <td rowspan="7">Total quantity of oily water removed as on 30.12.2023 is 2,17,240 litres and oily sludge removed as on 30.12.2023 is 663.5 Tonnes and the same is sent to the CPCL premises for further treatment and disposal.</td> </tr> <tr> <td>2.</td> <td>Ennore Bridge to Railway Bridge (Kattukuppakam)</td> <td>0.350</td> <td>M/s. Sea care Services, Mumbai</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>3.</td> <td>Railway Bridge to entrance of Buckingham canal</td> <td>1.0</td> <td>M/s. Viraj Clean Sea Enterprises, New Delhi</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>4.</td> <td>Entrance of Buckingham canal to Sivan padai Veedu</td> <td>0.1</td> <td>M/s. Vens Hydra Lift Pvt Ltd, Chennai</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>5.</td> <td>Sivan Padai Veedhi to Sathyamurthy Nagar</td> <td>6</td> <td>M/s. Neo win India Ltd, Chennai</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>6.</td> <td>Land area near Sathyamurthy Nagar bridge</td> <td>-</td> <td>M/s. Neo win India Ltd, Chennai</td> <td>Work in progress</td> </tr> <tr> <td>7.</td> <td>CMDA steel yard area</td> <td>-</td> <td>M/s. Neo win India Ltd, Chennai</td> <td>Work in progress</td> </tr> </tbody> </table> <p>* Even though the cleaning works were completed in the above 5 stretches (Sl. No 1 to 5), shore cleaning is carried out on daily basis for any carryover of oil due to tidal action</p>	Sl. No	Stretch Name	Distance (Km)	Agency Engaged	Status of work as on 29.12.2023	Details of oily water and oily sludge removed from 12.12.2023 onwards	1.	Creek Mouth to Ennore Bridge (Nettu Kuppam, Ennore Kuppam, Thazhan Kuppam, Mugathuvara Kuppam)	1.5	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	Total quantity of oily water removed as on 30.12.2023 is 2,17,240 litres and oily sludge removed as on 30.12.2023 is 663.5 Tonnes and the same is sent to the CPCL premises for further treatment and disposal.	2.	Ennore Bridge to Railway Bridge (Kattukuppakam)	0.350	M/s. Sea care Services, Mumbai	Cleaning work completed in this stretch*	3.	Railway Bridge to entrance of Buckingham canal	1.0	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	4.	Entrance of Buckingham canal to Sivan padai Veedu	0.1	M/s. Vens Hydra Lift Pvt Ltd, Chennai	Cleaning work completed in this stretch*	5.	Sivan Padai Veedhi to Sathyamurthy Nagar	6	M/s. Neo win India Ltd, Chennai	Cleaning work completed in this stretch*	6.	Land area near Sathyamurthy Nagar bridge	-	M/s. Neo win India Ltd, Chennai	Work in progress	7.	CMDA steel yard area	-	M/s. Neo win India Ltd, Chennai	Work in progress
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TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 31-12-2023

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	<ul style="list-style-type: none"> • Removal of oily water through gully sucker and also by using oil absorption boom at CMDA Steel yard premises • Cleaning and removing of oily water by using soft booms and sludge & debris manually under Ennore Railway bridge area • Cleaning of shores by manually at Nettu Kuppam and Ennore Kuppam area • Cleaning of oil affected Mangrove stretches at Ennore area (Ennore railway bridge, Temple area, Nettukuppam area, Near Lock Bridge) • Spreading of sand in Nettukuppam area as requested by the local fishermen in the presence of WRD officials 	
Machineries Deployed:	<ul style="list-style-type: none"> • Boats –80 Nos. • So far installed Booms <ul style="list-style-type: none"> ○ Oil Boom 300 m long installed– Ennore Creek Mouth ○ Two Booms of 325 m long and 275 m at Ennore Bridge ○ Oil Boom 100 m long installed– between Road Bridge and Railway Bridge ○ Oil Boom 80 m long installed – Railway Bridge ○ 50 m long light boom and 50 m hard boom installed – Sivanpadai Veethi ○ 250 m Boom at the mouth of the Buckingham Canal • JCB – 5 Nos. • Truck/ Tipper – 17 Nos. • Tata ace – 2 Nos. • Tractor trolley – 2 Nos. • Hydras– 1 No. • Poclain – 2 Nos. • Gully sucker – 6 Nos. 	
Manpower	CPCL	608 (in Boat =80 x 4 = 320, Machinery labours = 58, M/s. Viraj Clean Sea Enterprises - 85, M/s. Sea Care services - 60, M/s. Vens Hydra lift Pvt Ltd - 0, M/s. Neo win india limited- 85)
Material Removed:	Oily Water	220 litres (1 No. of barrel- 220 ltr capacity) 2,580 litres (43 Nos. of barrels- 60 ltr capacity) Total – 2,800 litres <u>Consolidated</u> <i>(Total quantity of oily water removed as on 31.12.2023 is 2,20,040 litres and oily sludge removed as on 31.12.2023 is 663.5 Tonnes and the same is sent to the CPCL premises for further treatment and disposal.)</i>
	Soil with oil Sludge	Nil
Detail of Sample Collection:	Surface water samples - 10 numbers	
Number of VOC sample collected:	VOC measured at 10 location	

Health Camp details	<table border="1"> <thead> <tr> <th>Description</th> <th>Period</th> <th>Total Screened (in Nos)</th> <th>Skin related issues (in Nos)</th> </tr> </thead> <tbody> <tr> <td>By CPCL</td> <td>as on 31.12.2023</td> <td>5,410</td> <td>410</td> </tr> <tr> <td>Mobile camp by Health department</td> <td>06.12.2023 to 20.12.2023</td> <td>14,241</td> <td>2,078</td> </tr> <tr> <td>Static camp by Health department</td> <td>10.12.2023 to 26.12.2023</td> <td>1,638</td> <td>294</td> </tr> </tbody> </table>	Description	Period	Total Screened (in Nos)	Skin related issues (in Nos)	By CPCL	as on 31.12.2023	5,410	410	Mobile camp by Health department	06.12.2023 to 20.12.2023	14,241	2,078	Static camp by Health department	10.12.2023 to 26.12.2023	1,638	294
Description	Period	Total Screened (in Nos)	Skin related issues (in Nos)														
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Static camp by Health department	10.12.2023 to 26.12.2023	1,638	294														
Mangrove Stretches	<p><u>Cleaning activities carried out in Mangrove stretches reported by the Forest Department</u></p> <p>OIL REMOVAL WORK IN MANGROVES - PROGRESS REPORT (31.12.2023)</p> <p>Total Manpower: 83 nos.</p> <p>Total number of boats deployed : 6 nos.</p> <ol style="list-style-type: none"> 1. Ennore railway bridge - 1 Nos. Manpower deployed - 11 Nos. 2. Temple area cleaning works- 1 Nos. Manpower deployed - 8 Nos. 3. Nettukuppam area cleaning - 2 Nos. Manpower deployed – 6 Nos 4. Mangroove area cleaning near lock bridge - By road. Manpower deployed - 54 Nos 5. Sorbent boom sweeping near temple area- 4 Nos. Manpower deployed - 4 Nos.  																



Removal of oily water out through Gully suckers at CMDA Steel yard area

Photographs if any:



Cleared area along the canal near Indian Additives compound wall in CMDA Steel complex in Sathankadu.



Unloading of barrels containing oily water within CPCL premises



Cleaning and removal of debris manually under Ennore Railway Bridge



Shore cleaning work in progress at Nettukuppam

Remarks:

- **2,800** litres of oily water has been collected in barrels and sent to CPCL premises for safe storage.
- Oil affected mangrove stretches were cleaned at Ennore area (Ennore Railway Bridge, Temple area, Nettukuppam area, Near Lock Bridge).

Details of Stretch for oil cleaning operation from Ennore Creek to Buckingham Canal:

Sl. No	Stretch Name	Distance (Km)	Agency Engaged	Status of work as on 29.12.2023	Details of oily water and oily sludge removed from 12.12.2023 onwards
1.	Creek Mouth to Ennore Bridge (Nettu Kuppam, Ennore Kuppam, Thazhan Kuppam, Mugathuvara Kuppam)	1.5	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	Total quantity of oily water removed as on 31.12.2023 is 2,20,040 litres and oily sludge removed as on 31.12.2023 is 663.5 Tonnes and the same is sent to the CPCL premises for further treatment and disposal.
2.	Ennore Bridge to Railway Bridge (Kattukuppakam)	0.350	M/s. Sea care Services, Mumbai	Cleaning work completed in this stretch*	
3.	Railway Bridge to entrance of Buckingham canal	1.0	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	
4.	Entrance of Buckingham canal to Sivan padai Veedu	0.1	M/s. Vens Hydra Lift Pvt Ltd, Chennai	Cleaning work completed in this stretch*	
5.	Sivan Padai Veedhi to Sathyamurthy Nagar	6	M/s. Neo win India Ltd, Chennai	Cleaning work completed in this stretch*	
6.	Land area near Sathyamurthy Nagar bridge	-	M/s. Neo win India Ltd, Chennai	Work in progress	
7.	CMDA steel yard area	-	M/s. Neo win India Ltd, Chennai	Work in progress	

	* Even though the cleaning works were completed in the above 5 stretches (Sl. No 1 to 5), shore cleaning is carried out on daily basis for any carryover of oil due to tidal action
CPCL Official present:	Mr.M.N.Suresh, Senior Manager Mr. Kamala Kannan, DGM Mr.Purushothaman, Manager Mr. T. Ravi, Assistant Manager
Government Official Present:	<ul style="list-style-type: none"> • Tamil Nadu Pollution Control Board • Director of Environment & Climatic Change • Revenue Department • Greater Chennai Corporation • Fisheries Department • Tamil Nadu Forest Department • Police Department



TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 01-01-2024

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	Cleaning of oil affected Mangrove stretches at Ennore area (Temple area and Near Lock Bridge)																		
	In view of New Year – No activity for Oily sludge & Oily water																		
Machineries Deployed:	<ul style="list-style-type: none"> • Boats –20 Nos. • So far installed Booms <ul style="list-style-type: none"> ○ Oil Boom 300 m long installed– Ennore Creek Mouth ○ Two Booms of 325 m long and 275 m at Ennore Bridge ○ Oil Boom 100 m long installed– between Road Bridge and Railway Bridge ○ Oil Boom 80 m long installed – Railway Bridge ○ 50 m long light boom and 50 m hard boom installed – Sivanpadai Veethi ○ 250 m Boom at the mouth of the Buckingham Canal • JCB – 1 No. • Truck/ Tipper – 8 Nos. • Tata ace – 1 Nos. • Hydras– 1 No. • Gully sucker – 2 Nos. 																		
Manpower	CPCL	248 (in Boat =20 x 4 = 80, Machinery labours = 12, M/s. Viraj Clean Sea Enterprises - 85, M/s. Sea Care services - 46, M/s. Vens Hydra lift Pvt ltd - 0, M/s. Neo win india limited- 25)																	
Material Removed:	Oily Water	Nil																	
	Soil with oil Sludge	Nil																	
Health Camp details	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Description</th> <th style="width: 20%;">Period</th> <th style="width: 20%;">Total Screened (in Nos)</th> <th style="width: 30%;">Skin related issues (in Nos)</th> </tr> </thead> <tbody> <tr> <td>By CPCL</td> <td>as on 01.01.2024</td> <td style="text-align: center;">5,425</td> <td style="text-align: center;">410</td> </tr> <tr> <td>Mobile camp by Health department</td> <td>06.12.2023 to 20.12.2023</td> <td style="text-align: center;">14,241</td> <td style="text-align: center;">2,078</td> </tr> <tr> <td>Static camp by Health department</td> <td>10.12.2023 to 26.12.2023</td> <td style="text-align: center;">1,638</td> <td style="text-align: center;">294</td> </tr> </tbody> </table>			Description	Period	Total Screened (in Nos)	Skin related issues (in Nos)	By CPCL	as on 01.01.2024	5,425	410	Mobile camp by Health department	06.12.2023 to 20.12.2023	14,241	2,078	Static camp by Health department	10.12.2023 to 26.12.2023	1,638	294
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Mangrove Stretches	<p>Cleaning activities carried out in Mangrove stretches reported by the Forest Department</p> <p>OIL REMOVAL WORK IN MANGROVES - PROGRESS REPORT (01.01.2024)</p> <p>Total Manpower: 123 nos.</p> <p>Total number of boats deployed : 20 nos. and 20 cutting equipment's were used today for cleaning work</p> <p>Today cleared area: 200 m , Temple area and Log bridge area was cleaned by selective pruning of the oil affected branches of Mangroves.</p> <p>Collection of wastes in bags: 250 bags</p>																		



Photographs if any:

Remarks:	<ul style="list-style-type: none"> Oil affected mangrove stretches were cleaned at Ennore area (Temple area and Near Lock Bridge). Today, no oil cleaning work was carried out in other stretches. <p style="text-align: center;">Details of Stretch for oil cleaning operation from Ennore Creek to Buckingham Canal:</p> <table border="1" data-bbox="297 438 1560 1588"> <thead> <tr> <th>Sl. No</th> <th>Stretch Name</th> <th>Distance (Km)</th> <th>Agency Engaged</th> <th>Status of work as on 29.12.2023</th> <th>Details of oily water and oily sludge removed from 12.12.2023 onwards</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Creek Mouth to Ennore Bridge (Nettu Kuppam, Ennore Kuppam, Thazhan Kuppam, Mugathuvara Kuppam)</td> <td>1.5</td> <td>M/s. Viraj Clean Sea Enterprises, New Delhi</td> <td>Cleaning work completed in this stretch*</td> <td rowspan="7">Total quantity of oily water removed as on 01.01.2024 is 2,20,040 litres and oily sludge removed as on 01.01.2024 is 663.5 Tonnes and the same is sent to the CPCL premises for further treatment and disposal.</td> </tr> <tr> <td>2.</td> <td>Ennore Bridge to Railway Bridge (Kattukuppakam)</td> <td>0.350</td> <td>M/s.Sea care Services, Mumbai</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>3.</td> <td>Railway Bridge to entrance of Buckingham canal</td> <td>1.0</td> <td>M/s. Viraj Clean Sea Enterprises, New Delhi</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>4.</td> <td>Entrance of Buckingham canal to Sivan padai Veedu</td> <td>0.1</td> <td>M/s.Vens Hydra Lift Pvt Ltd, Chennai</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>5.</td> <td>Sivan Padai Veedhi to Sathyamurthy Nagar</td> <td>6</td> <td>M/s. Neo win India Ltd, Chennai</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>6.</td> <td>Land area near Sathyamurthy Nagar bridge</td> <td>-</td> <td>M/s. Neo win India Ltd, Chennai</td> <td>Work in progress</td> </tr> <tr> <td>7.</td> <td>CMDA steel yard area</td> <td>-</td> <td>M/s. Neo win India Ltd, Chennai</td> <td>Work in progress</td> </tr> </tbody> </table> <p>* Even though the cleaning works were completed in the above 5 stretches (Sl. No 1 to 5), shore cleaning is carried out on daily basis for any carryover of oil due to tidal action</p>	Sl. No	Stretch Name	Distance (Km)	Agency Engaged	Status of work as on 29.12.2023	Details of oily water and oily sludge removed from 12.12.2023 onwards	1.	Creek Mouth to Ennore Bridge (Nettu Kuppam, Ennore Kuppam, Thazhan Kuppam, Mugathuvara Kuppam)	1.5	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	Total quantity of oily water removed as on 01.01.2024 is 2,20,040 litres and oily sludge removed as on 01.01.2024 is 663.5 Tonnes and the same is sent to the CPCL premises for further treatment and disposal.	2.	Ennore Bridge to Railway Bridge (Kattukuppakam)	0.350	M/s.Sea care Services, Mumbai	Cleaning work completed in this stretch*	3.	Railway Bridge to entrance of Buckingham canal	1.0	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	4.	Entrance of Buckingham canal to Sivan padai Veedu	0.1	M/s.Vens Hydra Lift Pvt Ltd, Chennai	Cleaning work completed in this stretch*	5.	Sivan Padai Veedhi to Sathyamurthy Nagar	6	M/s. Neo win India Ltd, Chennai	Cleaning work completed in this stretch*	6.	Land area near Sathyamurthy Nagar bridge	-	M/s. Neo win India Ltd, Chennai	Work in progress	7.	CMDA steel yard area	-	M/s. Neo win India Ltd, Chennai	Work in progress
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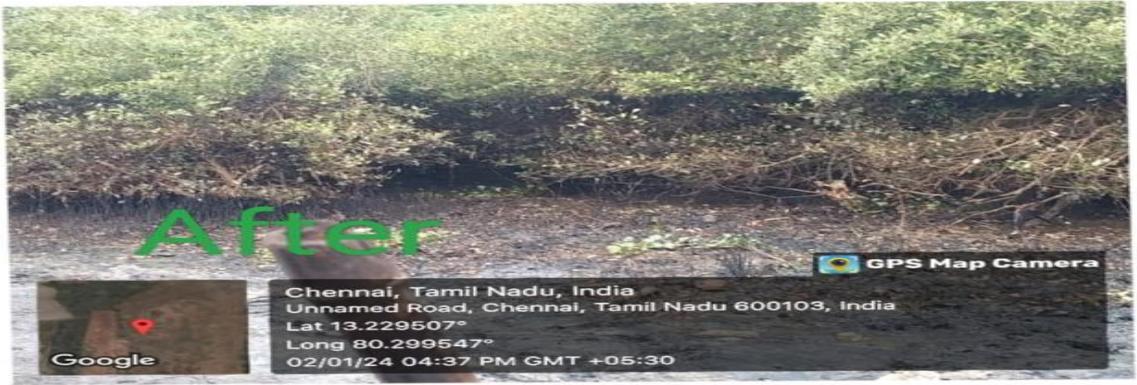
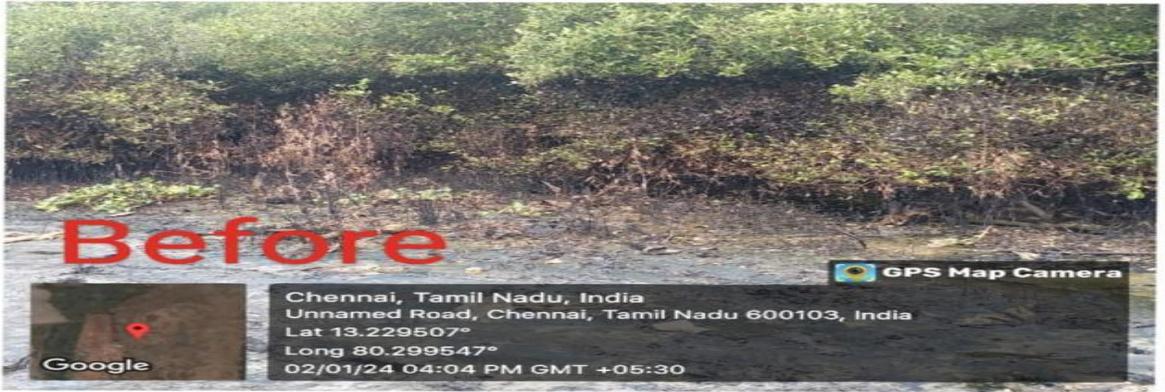
TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 02-01-2024

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	<ul style="list-style-type: none"> • Cleaning of shores by manually and removing of oily water by using soft booms under Ennore Railway bridge area • Cleaning of thin oily layer patches present on water surface between Temple area at Kattukuppam and Ennore Railway Bridge by sweeping using oil absorbent boom • Cleaning of oil affected Mangrove stretches at Temple area, Lock bridge and Pathukannu bridge 																		
Machineries Deployed:	<ul style="list-style-type: none"> • Boats –20 Nos. • So far installed Booms <ul style="list-style-type: none"> ○ Oil Boom 300 m long installed– Ennore Creek Mouth ○ Two Booms of 325 m long and 275 m at Ennore Bridge ○ Oil Boom 100 m long installed– between Road Bridge and Railway Bridge ○ Oil Boom 80 m long installed – Railway Bridge ○ 50 m long light boom and 50 m hard boom installed –SivanpadaiVeethi ○ 250 m Boom at the mouth of the Buckingham Canal • Truck/ Tipper – 7 Nos. • Tata ace – 1 No. • Hydras– 1 No. • Gully sucker – 7 Nos. 																		
Manpower	CPCL	239 (in Boat =20 x 4 = 80, Machinery labours =13, M/s. Viraj Clean Sea Enterprises - 85, M/s. Sea Care services - 36, M/s. Vens Hydra lift Pvt ltd - 0, M/s. Neowin india limited-25)																	
Material Removed:	Oily Water	Nil																	
	Soil with oil Sludge	Nil																	
Detail of Sample Collection:	NCCR collected Surface water samples – 09 numbers Ground water samples – 08 numbers																		
Health Camp details	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Description</th> <th style="width: 20%;">Period</th> <th style="width: 20%;">Total Screened (in Nos)</th> <th style="width: 30%;">Skin related issues (in Nos)</th> </tr> </thead> <tbody> <tr> <td>By CPCL</td> <td>as on 01.01.2024</td> <td>5,425</td> <td>410</td> </tr> <tr> <td>Mobile camp by Health department</td> <td>06.12.2023 to 20.12.2023</td> <td>14,241</td> <td>2,078</td> </tr> <tr> <td>Static camp by Health department</td> <td>10.12.2023 to 26.12.2023</td> <td>1,638</td> <td>294</td> </tr> </tbody> </table>			Description	Period	Total Screened (in Nos)	Skin related issues (in Nos)	By CPCL	as on 01.01.2024	5,425	410	Mobile camp by Health department	06.12.2023 to 20.12.2023	14,241	2,078	Static camp by Health department	10.12.2023 to 26.12.2023	1,638	294
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Mangrove Stretches	<p>Cleaning activities carried out in Mangrove stretches reported by the Forest Department</p> <p>OIL REMOVAL WORK IN MANGROVES - PROGRESS REPORT (02.01.2024)</p> <p>Total Manpower: 85 nos.</p> <p>Total number of boats deployed : 20 nos. and 20 cutting equipment's were used today for cleaning work</p> <p>Today cleared area: 320 m, 1. Temple area, 2. Lock bridge and 3. Pathukannu bridge area were cleaned by selective pruning of the oil affected branches of Mangroves.</p> <p>Collection of wastes in bags: 390 bags</p>																		





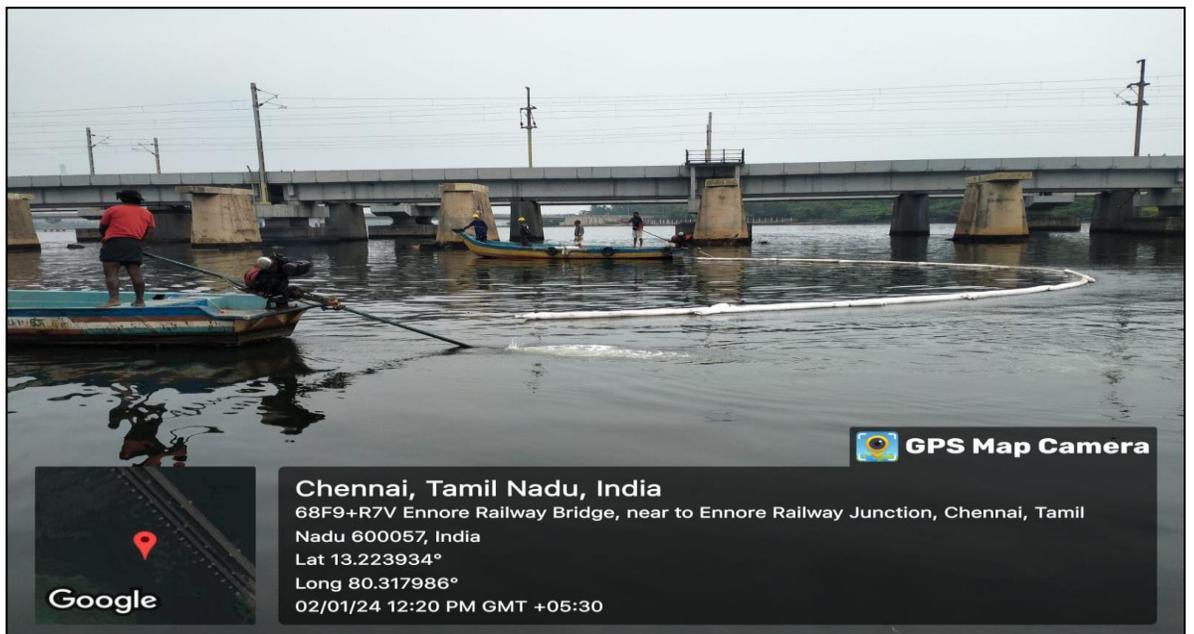
Suresh's S23



Ennore, Tamil Nadu, India
6868+H23, Nehru Nagar, Ennore, Chennai, Tamil Nadu 600057, India
Lat 13.207209°
Long 80.310644°
02/01/24 03:38 PM GMT +05:30

Photographs if any:

Removal of thin oily layer present on water surface by sweeping using oil absorbent boom near Ennore Railwar bridge



Chennai, Tamil Nadu, India
68F9+R7V Ennore Railway Bridge, near to Ennore Railway Junction, Chennai, Tamil Nadu 600057, India
Lat 13.223934°
Long 80.317986°
02/01/24 12:20 PM GMT +05:30

CPCL Official present:	Mr.M.N.Suresh, Senior Manager Mr. Kamala Kannan, DGM Mr.Purushothaman, Manager Mr. T. Ravi, Assistant Manager
Government Official Present:	<ul style="list-style-type: none">• Tamil Nadu Pollution Control Board• Director of Environment & Climatic Change• Tamil Nadu Forest Department



TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 03-01-2024

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	<ul style="list-style-type: none"> Cleaning of thin oily layer patches present on water surface between Temple area at Kattukuppam and Ennore Railway Bridge by sweeping using oil absorbent boom Cleaning of oil affected Mangrove stretches at Log bridge and Pathukannu bridge area 			
Machineries Deployed:	<ul style="list-style-type: none"> Boats –20 Nos. So far installed Booms <ul style="list-style-type: none"> Oil Boom 300 m long installed– Ennore Creek Mouth Two Booms of 325 m long and 275 m at Ennore Bridge Oil Boom 100 m long installed– between Road Bridge and Railway Bridge Oil Boom 80 m long installed – Railway Bridge 50 m long light boom and 50 m hard boom installed –SivanpadaiVeethi 250 m Boom at the mouth of the Buckingham Canal Tractor trolley – 1 No. Tata ace – 1 No. Hydra– 1 No. Mini truck – 1 No. Grass cutting machine – 1 No. 			
Manpower	CPCL	222 (in Boat =20 x 4 = 80, Machinery labours =6, M/s. Viraj Clean Sea Enterprises - 85, M/s. Sea Care services - 26, M/s. Vens Hydra lift Pvt Ltd - 0, M/s. Neowin india limited-25)		
Material Removed:	Oily Water	Nil		
	Soil with oil Sludge	Nil		
Detail of Sample Collection:	Surface water samples – 06 numbers			
Health Camp details	Description	Period	Total Screened (in Nos)	Skin related issues (in Nos)
	By CPCL	as on 01.01.2024	5,425	410
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	Static camp by Health department	10.12.2023 to 26.12.2023	1,638	294
Mangrove Stretches	<p>Cleaning activities carried out in Mangrove stretches reported by the Forest Department</p> <p>OIL REMOVAL WORK IN MANGROVES - PROGRESS REPORT (03.01.2024)</p> <p>Total Manpower: 90 nos.</p> <p>Total Equipment's : 20 boats, 45 cutting equipment's and 10 Shovel were used today for cleaning work</p> <p>Today cleared area: 210 m,</p> <p>Total sites – 2 sites, 1.Log Bridge area, 2. Pathukannu bridge</p> <p>Collection of wastes in bags: 370 bags</p>			

Photographs if any:

Removal of thin oily layer present on water surface by sweeping using oil absorbent boom near Ennore Railwar bridge



Remarks:

- Oil affected mangrove stretches were cleaned of about 210 m at Log bridge and Pathukannu bridge area

Details of Stretch for oil cleaning operation from Ennore Creek to Buckingham Canal:

Sl. No	Stretch Name	Distance (Km)	Agency Engaged	Status of work as on 03.01.2024	Details of oily water and oily sludge removed from 12.12.2023 onwards
1.	Creek Mouth to Ennore Bridge (Nettukuppam, Ennorekuppam, ThazhanKuppam, MugathuvaraKuppam)	1.5	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	Total quantity of oily water removed as on 03.01.2024 is 2,20,040 litres and oily sludge removed as on 03.01.2024 is 663.5 Tonnes and the same is sent to the CPCL premises for further treatment and disposal.
2.	Ennore Bridge to Railway Bridge (Kattukuppakam)	0.350	M/s. Sea care Services, Mumbai	Cleaning work completed in this stretch*	
3.	Railway Bridge to entrance of Buckingham canal	1.0	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	
4.	Entrance of Buckingham canal to Sivan padai Veedu	0.1	M/s. Vens Hydra Lift Pvt Ltd, Chennai	Cleaning work completed in this stretch*	
5.	Sivan Padai Veedhi to Sathyamurthy Nagar	6	M/s. Neo win India Ltd, Chennai	Cleaning work completed in this stretch*	
6.	Land area near Sathyamurthy Nagar bridge	-	M/s. Neo win India Ltd, Chennai	Work in progress	
7.	CMDA steel yard area	-	M/s. Neo win India Ltd, Chennai	Work in progress	

***Even though the cleaning works were completed in the above 5 stretches (Sl. No 1 to 5), shore cleaning is carried out on daily basis for any carryover of oil due to tidal action**

CPCL Official present:	Mr.M.N.Suresh, Senior Manager Mr. Kamala Kannan, DGM Mr.Purushothaman, Manager Mr. T. Ravi, Assistant Manager
Government Official Present:	<ul style="list-style-type: none">• Tamil Nadu Pollution Control Board• Director of Environment & Climatic Change• Tamil Nadu Forest Department



TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 04-01-2024

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	Cleaning of oil affected Mangrove stretches at Log bridge and Pathukannu bridge area																		
Machineries Deployed:	<ul style="list-style-type: none"> • Boats –20 Nos. • So far installed Booms <ul style="list-style-type: none"> ○ Oil Boom 300 m long installed– Ennore Creek Mouth ○ Two Booms of 325 m long and 275 m at Ennore Bridge ○ Oil Boom 100 m long installed– between Road Bridge and Railway Bridge ○ Oil Boom 80 m long installed – Railway Bridge ○ 50 m long light boom and 50 m hard boom installed –Sivanpadai Veethi ○ 250 m Boom at the mouth of the Buckingham Canal • Tractor trolley – 3 No. • Tata ace – 1 No. • Grass cutting machine – 2 Nos. 																		
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Material Removed:	Oily Water	Nil																	
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Mangrove Stretches	<p>Cleaning activities carried out in Mangrove stretches reported by the Forest Department</p> <p>OIL REMOVAL WORK IN MANGROVES - PROGRESS REPORT (04.01.2024)</p> <p>Total equipment's- 20 boats, 45 cutting Equipments and 10 shovels were used today for mangrove work.</p> <p>No of manpower- 90 nos</p> <p>Total sites- 2 sites, 1. Log Bridge area, 2. Pathukannu bridge</p> <p>Total area cleared- 338 m.</p> <p>Total garbage collected today - 388 bags.</p> <p>1 floating excavator machine was used today. In Temple area upper soil has been removed for 20 m and 35 bags of soil has been collected.</p>																		
Remarks:	<ul style="list-style-type: none"> • Oil affected mangrove stretches were cleaned of about 338 m at Log bridge and Pathukannu bridge area <p style="text-align: center;">Details of Stretch for oil cleaning operation from Ennore Creek to Buckingham Canal:</p>																		

Sl. No	Stretch Name	Distance (Km)	Agency Engaged	Status of work as on 04.01.2024	Details of oily water and oily sludge removed from 12.12.2023 onwards
1.	Creek Mouth to Ennore Bridge (NettuKuppam, EnnoreKuppam, ThazhanKuppam, MugathuvaraKuppam)	1.5	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	Total quantity of oily water removed as on 04.01.2024 is 2,20,040 litres and oily sludge removed as on 04.01.2024 is 663.5 Tonnes and the same is sent to the CPCL premises for further treatment and disposal.
2.	Ennore Bridge to Railway Bridge (Kattukuppakam)	0.350	M/s. Sea care Services, Mumbai	Cleaning work completed in this stretch*	
3.	Railway Bridge to entrance of Buckingham canal	1.0	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	
4.	Entrance of Buckingham canal to Sivan padai Veedu	0.1	M/s. Vens Hydra Lift Pvt Ltd, Chennai	Cleaning work completed in this stretch*	
5.	Sivan Padai Veedhi to Sathyamurthy Nagar	6	M/s. Neo win India Ltd, Chennai	Cleaning work completed in this stretch*	
6.	Land area near Sathyamurthy Nagar bridge	-	M/s. Neo win India Ltd, Chennai	Work in progress	
7.	CMDA steel yard area	-	M/s. Neo win India Ltd, Chennai	Cleaning work completed in this stretch	
<p>*Even though the cleaning works were completed in the above 5 stretches (Sl. No 1 to 5), shore cleaning is carried out on daily basis for any carryover of oil due to tidal action</p>					
CPCL Official present:	<p>Mr.M.N.Suresh, Senior Manager</p> <p>Mr. Kamala Kannan, DGM</p> <p>Mr.Purushothaman, Manager</p> <p>Mr. T. Ravi, Assistant Manager</p>				
Government Official Present:	<ul style="list-style-type: none"> • Tamil Nadu Pollution Control Board • Director of Environment & Climatic Change • Tamil Nadu Forest Department 				



TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 05-01-2024

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	Cleaning of oil affected Mangrove stretches at Log bridge and Pathukannu bridge area																		
Machineries Deployed:	<ul style="list-style-type: none"> • Boats –20 Nos. • So far installed Booms <ul style="list-style-type: none"> ○ Oil Boom 300 m long installed– Ennore Creek Mouth ○ Two Booms of 325 m long and 275 m at Ennore Bridge ○ Oil Boom 100 m long installed– between Road Bridge and Railway Bridge ○ Oil Boom 80 m long installed – Railway Bridge ○ 50 m long light boom and 50 m hard boom installed –Sivanpadai Veethi ○ 250 m Boom at the mouth of the Buckingham Canal • Tractor trolley – 2 Nos. • Tata ace – 1 No. • Grass cutting machine – 2 Nos. 																		
Manpower	CPCPL	212 (in Boat =20 x 4 = 80, Machinery labours =6, M/s. Viraj Clean Sea Enterprises - 85, M/s. Sea Care services - 16, M/s. Vens Hydra lift Pvt ltd - 0, M/s. Neowin india limited-25)																	
Material Removed:	Oily Water	Nil																	
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Remarks:	<ul style="list-style-type: none"> • Oil affected mangrove stretches were cleaned of about 450 m at Log bridge and Pathukannu bridge area <p style="text-align: center;">Details of Stretch for oil cleaning operation from Ennore Creek to Buckingham Canal:</p>																		

Sl. No	Stretch Name	Distance (Km)	Agency Engaged	Status of work as on 05.01.2024	Details of oily water and oily sludge removed from 12.12.2023 onwards
1.	Creek Mouth to Ennore Bridge (NettuKuppam, EnnoreKuppam, ThazhanKuppam, MugathuvaraKuppam)	1.5	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	Total quantity of oily water removed as on 05.01.2024 is 2,20,040 litres and oily sludge removed as on 05.01.2024 is 663.5 Tonnes and the same is sent to the CPCL premises for further treatment and disposal.
2.	Ennore Bridge to Railway Bridge (Kattukuppakam)	0.350	M/s.Sea care Services, Mumbai	Cleaning work completed in this stretch*	
3.	Railway Bridge to entrance of Buckingham canal	1.0	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	
4.	Entrance of Buckingham canal to Sivan padai Veedu	0.1	M/s.Vens Hydra Lift Pvt Ltd, Chennai	Cleaning work completed in this stretch*	
5.	Sivan Padai Veedhi to Sathyamurthy Nagar	6	M/s. Neo win India Ltd, Chennai	Cleaning work completed in this stretch*	
6.	Land area near Sathyamurthy Nagar bridge	-	M/s. Neo win India Ltd, Chennai	Work in progress	
7.	CMDA steel yard area	-	M/s. Neo win India Ltd, Chennai	Cleaning work completed in this stretch	
<p>*Even though the cleaning works were completed in the above 5 stretches (Sl. No 1 to 5), shore cleaning is carried out on daily basis for any carryover of oil due to tidal action</p>					
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Government Official Present:	<ul style="list-style-type: none"> • Tamil Nadu Pollution Control Board • Director of Environment & Climatic Change • Tamil Nadu Forest Department 				



TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 06-01-2024

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	Cleaning of oil affected Mangrove stretches at Island near Log Bridge area, Sivan padai veedu and Pathukannu bridge area																		
Machineries Deployed:	<ul style="list-style-type: none"> • Boats –20 Nos. • So far installed Booms <ul style="list-style-type: none"> ○ Oil Boom 300 m long installed– Ennore Creek Mouth ○ Two Booms of 325 m long and 275 m at Ennore Bridge ○ Oil Boom 100 m long installed– between Road Bridge and Railway Bridge ○ Oil Boom 80 m long installed – Railway Bridge ○ 50 m long light boom and 50 m hard boom installed –Sivanpadai Veethi ○ 250 m Boom at the mouth of the Buckingham Canal • Tractor trolley – 2 Nos. • Tata ace – 1 No. • Grass cutting machine – 2 Nos. 																		
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Material Removed:	Oily Water	Nil																	
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Photographs if any:																			

Bags containing oil affected plant debris was received at Mugathuvara Kuppam and loaded in the truck and sent to CPCL premises



Remarks:

- Oil affected mangrove stretches were cleaned of about 251 m at Island near Log Bridge area, Sivan padai veedu and Pathukannu bridge area

Details of Stretch for oil cleaning operation from Ennore Creek to Buckingham Canal:

Sl. No	Stretch Name	Distance (Km)	Agency Engaged	Status of work as on 06.01.2024	Details of oily water and oily sludge removed from 12.12.2023 onwards
1.	Creek Mouth to Ennore Bridge (Nettukuppam, Ennorekuppam, ThazhanKuppam, MugathuvaraKuppam)	1.5	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	Total quantity of oily water removed as on 06.01.2024 is 2,20,040 litres and oily sludge removed as on 06.01.2024 is 663.5 Tonnes and the same is sent to the CPCL premises for further treatment and disposal.
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5.	Sivan Padai Veedhi to Sathyamurthy Nagar	6	M/s. Neo win India Ltd, Chennai	Cleaning work completed in this stretch*	
6.	Land area near Sathyamurthy Nagar bridge	-	M/s. Neo win India Ltd, Chennai	Cleaning work completed	
7.	CMDA steel yard area	-	M/s. Neo win India Ltd, Chennai	Cleaning work completed	

***Even though the cleaning works were completed in the above 5 stretches (Sl. No 1 to 5), shore cleaning is carried out on daily basis for any carryover of oil due to tidal action**

CPCL Official present:

Mr.M.N.Suresh, Senior Manager
Mr. Kamala Kannan, DGM
Mr.Purushothaman, Manager
Mr. T. Ravi, Assistant Manager

Government Official Present:

- Tamil Nadu Pollution Control Board
- Director of Environment & Climatic Change
- Tamil Nadu Forest Department



TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 07-01-2024

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	The workers were unable to carry out cleaning work today due to the rain.																						
Machineries Deployed:	<ul style="list-style-type: none"> • Boats – Nil. • So far installed Booms <ul style="list-style-type: none"> ○ Oil Boom 300 m long installed– Ennore Creek Mouth ○ Two Booms of 325 m long and 275 m at Ennore Bridge ○ Oil Boom 100 m long installed– between Road Bridge and Railway Bridge ○ Oil Boom 80 m long installed – Railway Bridge ○ 50 m long light boom and 50 m hard boom installed –Sivanpadai Veethi ○ 250 m Boom at the mouth of the Buckingham Canal • Tractor trolley – Nil. • Tata ace – Nil. • Grass cutting machine – Nil. 																						
Manpower	CPCL	Nil																					
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TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 08-01-2024

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	Cleaning of oil affected Mangrove stretches at Island near Log Bridge area, Sivan padai veedu and Pathukannu bridge area																		
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Mangrove Stretches	<p>Cleaning activities carried out in Mangrove stretches reported by the Forest Department</p> <p>Mangrove restoration work in Ennore - Daily progress report (08.01.2024)</p> <p>Total equipment's- 20 boats, 45 cutting Equipments, 10 shovels were used today for mangrove work.</p> <p>No of manpower- 75 nos</p> <p>Total sites- 3 sites, 1. Island near Log Bridge area, 2. Sivan padai veedu 3. Pathukannu bridge</p> <p>Total area cleared- 181 m.</p> <p>Total garbage collected today - 254 bags.</p>																		



Photographs if any:

NIO officials, Goa, TNPCB officials and CPCL officials have inspected the oil slick affected stretches of Ennore Creek, Buckingham Canal and River Kosasthalaiyaru





Remarks:

- Oil affected mangrove stretches were cleaned of about 181 m at Island near Log Bridge area, Sivan padai veedu and Pathukannu bridge area
- The officials from NIO Goa, TNPCB and CPCL have inspected the stretches of oil slick affected areas of Ennore Creek, Buckingham Canal, and River Kosasthalaiyaru and identified the sites for bio remediation by application of Herbal Nanotech Bio dispersant on pilot scale basis.

Details of Stretch for oil cleaning operation from Ennore Creek to Buckingham Canal:

Sl. No	Stretch Name	Distance (Km)	Agency Engaged	Status of work as on 08.01.2024	Details of oily water and oily sludge removed from 12.12.2023 onwards
1.	Creek Mouth to Ennore Bridge (NettuKuppam, EnnoreKuppam, ThazhanKuppam, MugathuvaraKuppam)	1.5	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	Total quantity of oily water removed as on 08.01.2024 is 2,20,040 litres and oily sludge
2.	Ennore Bridge to Railway Bridge (Kattukuppakam)	0.350	M/s.Sea care Services, Mumbai	Cleaning work completed in this stretch*	

	3.	Railway Bridge to entrance of Buckingham canal	1.0	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	removed as on 08.01.2024 is 663.5 Tonnes and the same is sent to the CPCL premises for further treatment and disposal.
	4.	Entrance of Buckingham canal to Sivan padai Veedu	0.1	M/s.Vens Hydra Lift Pvt Ltd, Chennai	Cleaning work completed in this stretch*	
	5.	Sivan Padai Veedhi to Sathyamurthy Nagar	6	M/s. Neo win India Ltd, Chennai	Cleaning work completed in this stretch*	
	6.	Land area near Sathyamurthy Nagar bridge	-	M/s. Neo win India Ltd, Chennai	Cleaning work completed	
	7.	CMDA steel yard area	-	M/s. Neo win India Ltd, Chennai	Cleaning work completed	
<p>*Even though the cleaning works were completed in the above 5 stretches (Sl. No 1 to 5), shore cleaning is carried out on daily basis for any carryover of oil due to tidal action</p>						
CPCL Official present:	<p>Mr.M.N.Suresh, Senior Manager</p> <p>Mr. Kamala Kannan, DGM</p> <p>Mr.Purushothaman, Manager</p> <p>Mr. T. Ravi, Assistant Manager</p>					
Government Official Present:	<ul style="list-style-type: none"> • Tamil Nadu Pollution Control Board • Director of Environment & Climatic Change • Tamil Nadu Forest Department 					



TAMIL NADU POLLUTION CONTROL BOARD

ENNORE CREEK OIL SPILL MANAGEMENT DAILY REPORT

Date: 09-01-2024

Location: Creek Mouth to Ennore Bridge, Ennore Bridge to Railway Bridge (Kattukuppakam), Railway Bridge to entrance of Buckingham canal & Buckingham canal to Sathyamurthy Nagar

Activities Carried Out	Cleaning of oil affected Mangrove stretches at Sivan Padai Veedu area																		
Machineries Deployed:	<ul style="list-style-type: none"> • Boats –20 Nos. • So far installed Booms <ul style="list-style-type: none"> ○ Oil Boom 300 m long installed– Ennore Creek Mouth ○ Two Booms of 325 m long and 275 m at Ennore Bridge ○ Oil Boom 100 m long installed– between Road Bridge and Railway Bridge ○ Oil Boom 80 m long installed – Railway Bridge ○ 50 m long light boom and 50 m hard boom installed –Sivanpadai Veethi ○ 250 m Boom at the mouth of the Buckingham Canal • Tractor trolley – 3 Nos. • JCB – 1 No. • Tata ace – 1 No. • Gully sucker – 2 Nos. • Grass cutting machine – 2 Nos. 																		
Manpower	CPCL	188 (in Boat =20 x 4 = 80, Machinery labours =8, M/s. Viraj Clean Sea Enterprises - 75, M/s. Sea Care services - 0, M/s. Vens Hydra lift Pvt ltd - 0, M/s. Neowin india limited-25)																	
Material Removed:	Oily Water	Nil																	
	Soil with oil Sludge	Nil																	
Detail of Sample Collection:	NCCR collected surface water samples – 10 numbers and Ground water samples – 8 numbers collected through TNPCB Lab																		
Health Camp details	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Description</th> <th style="width: 20%;">Period</th> <th style="width: 20%;">Total Screened (in Nos)</th> <th style="width: 30%;">Skin related issues (in Nos)</th> </tr> </thead> <tbody> <tr> <td>By CPCL</td> <td>as on 01.01.2024</td> <td>5,425</td> <td>410</td> </tr> <tr> <td>Mobile camp by Health department</td> <td>06.12.2023 to 20.12.2023</td> <td>14,241</td> <td>2,078</td> </tr> <tr> <td>Static camp by Health department</td> <td>10.12.2023 to 26.12.2023</td> <td>1,638</td> <td>294</td> </tr> </tbody> </table>			Description	Period	Total Screened (in Nos)	Skin related issues (in Nos)	By CPCL	as on 01.01.2024	5,425	410	Mobile camp by Health department	06.12.2023 to 20.12.2023	14,241	2,078	Static camp by Health department	10.12.2023 to 26.12.2023	1,638	294
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Photographs if any:

NIO, Goa and TNPCB officials have collected the water and sediment samples at the identified sites for bio remediation



Remarks:	<ul style="list-style-type: none"> Oil affected mangrove stretches were cleaned of about 400 m at Sivan Padai Veedu area Bio-remediation process: - The water samples were collected from the Control site and T1, T2 locations before treatment of bio-dispersion. Also, the sediments were collected from the above said locations in various depths 2 cm, 5cm and 10 cm by the NIO team. The T3 location could not be reached by boat due to low tide at that time. The dilutions of bio dispersant were decided by visiting the sites with Dr. Sreepada. <p style="text-align: center;">Details of Stretch for oil cleaning operation from Ennore Creek to Buckingham Canal:</p> <table border="1" data-bbox="256 585 1565 1612"> <thead> <tr> <th>Sl. No</th> <th>Stretch Name</th> <th>Distance (Km)</th> <th>Agency Engaged</th> <th>Status of work as on 09.01.2024</th> <th>Details of oily water and oily sludge removed from 12.12.2023 onwards</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Creek Mouth to Ennore Bridge (Nettukuppam, Ennorekuppam, ThazhanKuppam, MugathuvaraKuppam)</td> <td>1.5</td> <td>M/s. Viraj Clean Sea Enterprises, New Delhi</td> <td>Cleaning work completed in this stretch*</td> <td rowspan="7">Total quantity of oily water removed as on 09.01.2024 is 2,20,040 litres and oily sludge removed as on 09.01.2024 is 663.5 Tonnes and the same is sent to the CPCL premises for further treatment and disposal.</td> </tr> <tr> <td>2.</td> <td>Ennore Bridge to Railway Bridge (Kattukuppakam)</td> <td>0.350</td> <td>M/s.Sea care Services, Mumbai</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>3.</td> <td>Railway Bridge to entrance of Buckingham canal</td> <td>1.0</td> <td>M/s. Viraj Clean Sea Enterprises, New Delhi</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>4.</td> <td>Entrance of Buckingham canal to Sivan padai Veedu</td> <td>0.1</td> <td>M/s.Vens Hydra Lift Pvt Ltd, Chennai</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>5.</td> <td>Sivan Padai Veedhi to Sathyamurthy Nagar</td> <td>6</td> <td>M/s. Neo win India Ltd, Chennai</td> <td>Cleaning work completed in this stretch*</td> </tr> <tr> <td>6.</td> <td>Land area near Sathyamurthy Nagar bridge</td> <td>-</td> <td>M/s. Neo win India Ltd, Chennai</td> <td>Cleaning work completed</td> </tr> <tr> <td>7.</td> <td>CMDA steel yard area</td> <td>-</td> <td>M/s. Neo win India Ltd, Chennai</td> <td>Cleaning work completed</td> </tr> </tbody> </table> <p>*Even though the cleaning works were completed in the above 5 stretches (Sl. No 1 to 5), shore cleaning is carried out on daily basis for any carryover of oil due to tidal action</p>	Sl. No	Stretch Name	Distance (Km)	Agency Engaged	Status of work as on 09.01.2024	Details of oily water and oily sludge removed from 12.12.2023 onwards	1.	Creek Mouth to Ennore Bridge (Nettukuppam, Ennorekuppam, ThazhanKuppam, MugathuvaraKuppam)	1.5	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	Total quantity of oily water removed as on 09.01.2024 is 2,20,040 litres and oily sludge removed as on 09.01.2024 is 663.5 Tonnes and the same is sent to the CPCL premises for further treatment and disposal.	2.	Ennore Bridge to Railway Bridge (Kattukuppakam)	0.350	M/s.Sea care Services, Mumbai	Cleaning work completed in this stretch*	3.	Railway Bridge to entrance of Buckingham canal	1.0	M/s. Viraj Clean Sea Enterprises, New Delhi	Cleaning work completed in this stretch*	4.	Entrance of Buckingham canal to Sivan padai Veedu	0.1	M/s.Vens Hydra Lift Pvt Ltd, Chennai	Cleaning work completed in this stretch*	5.	Sivan Padai Veedhi to Sathyamurthy Nagar	6	M/s. Neo win India Ltd, Chennai	Cleaning work completed in this stretch*	6.	Land area near Sathyamurthy Nagar bridge	-	M/s. Neo win India Ltd, Chennai	Cleaning work completed	7.	CMDA steel yard area	-	M/s. Neo win India Ltd, Chennai	Cleaning work completed
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Health Screening



AdiDravidar (AD) Colony Eranvur
Mr Jayaraman Councillor Ward 4



Sathyamurthy Nagar Mr Samuel Diraviyam Councillor Ward 6



Thallankuppam Mr Sivakumar Councillor Ward 1



Ennore Creek Mr Sivakumar Councillor Ward 1



Medicine for Zone 1 & 2

Veterinary Camp conducted in affected areas









Fire & Rescue services stationed at site



**BEFORE THE HON'BLE NATIONAL
GREEN TRIBUNAL
SOUTHERN ZONE, CHENNAI.**

**Original Application No. 180 of 2023 (SZ)
And
Original Application No. 183 of 2023 (SZ)**

SUOMOTU based on the Visual media titled
Chennai Rains Makkalai Vathaikkum Oil
Companies- Shocking Story - Michaung
Ground Report covered by on VIKATAN TV
Chennai dt.06.12.2023

Vs

The District Collector Chennai District
And Ors

...Respondents

With

R.L. Srinivasan, Chennai.

..Applicant

Versus

The Tamil Nadu Coastal Zone Management
Authority,Rep. by its Member Secretary,
Chennai and Ors.

...Respondent(s)

**REPORT FILED ON BEHALF OF THE
RESPONDNET -TAMIL NADU POLLUTION
CONTROL BOARD**

**Advocate for Respondent:TNPCB
Thiru.S. Sai Sathya Jith ,
Advocate, Chennai.**

Date:10.01.2024.

Date of hearing on:11.01.2024