पांचवीं तक बच्चों को गेंद और कंचों की मदद से शिक्षक पढ़ायेंगे गणित के पाठ

संवाददाता, पटना

जिले के प्राथमिक स्कूलों के बच्चों में पढ़ाई के प्रति रुचि बढ़ाने और बेहतर ढंग से पाठ्यक्रम को समझाने के लिए शिक्षक टीचिंग लर्निंग मटेरियल (टीएलएम) का इस्तेमाल करेंगे. बिहार शिक्षा परियोजना परिषद की ओर से जारी की गयी नयी समय सारिणी के तहत कक्षा एक से पांचवीं के बच्चों को क्लास में शिक्षक टीएलएम की मदद लेकर पढ़ायेंगे. इसमें हिंदी, गणित, अंग्रेजी और इवीएस की किताबों के साथ ही शिक्षक विभिन्न टॉपिक को बच्चों को बेहतर ढंग से समझाने के लिए टीएलएम का भी इस्तेमाल करेंगे. इसमें हिंदी व अंग्रेजी के शब्द, वाक्य और वर्णमाल को समझाने के लिए फ्लावर चार्ट, विंडो चार्ट की मदद लेंगे. इसके साथ ही गणित विषय को रुचिकर बनाने और तरीके से समझाने के लिए शिक्षक गेंद, कंचे व तीलियों का भी सहारा लेंगे. कंचों व गेंदों को गिनकर गिनती सिखायी जायेगी. इसके साथ ही घड़ी, मानक पैमाना, तापमापी आदि मॉडल पर्यावरण अध्ययन को समझाने के लिए इस्तेमाल किया जायेगा. स्कूली शिक्षकों को परिषद की ओर से टीएलएम किट और प्रशिक्षण भी दिया गया है.

शिक्षकों को दी जा चुकी है ट्रेनिंग : जिले के सरकारी स्कूलों में पढ़ने वाले बच्चों में विज्ञान और गणित विषय के प्रति रुचि बढ़ाने के लिए प्रैक्टिकल क्लास आयोजित किये जायेंगे. इसमें साइंस फॉर सोसाइटी का भी सहयोग लिया जायेगा. कक्षा एक से पांचवीं के बच्चों में पाठ्यक्रम में दिये वैज्ञानिक सिद्धांतों को बेहतर ढंग से समझाने के लिए प्रैक्टिकल व प्रोजेक्ट के जरिये बच्चों को जानकारी दी गयी है. इसके साथ ही विज्ञान की विधियों का उपयोग करने व नवाचार के महत्व से भी बच्चों को अवगत कराया जायेगा. वहीं, गणित विषय में मापन, संख्या प्रयोग व पाठ्यक्रम में दिये टॉपिक को टीचिंग लर्निंग मटेरियल की मदद से पढ़ाने को लेकर भी प्रशिक्षण दिया गया है.

राजकोट-बरौनी साप्ताहिक स्पेशल की परिचालन अवधि में हुई वृद्धि

पटना. यात्रियों की सुविधा को देखते हुए पूमरे की ओर से साप्ताहिक व स्पेशल ट्रेनों के फेरे बढ़ाने का क्रम जारी है. इसी कड़ी में पंडित दीन दयाल उपाध्याय जंक्शन, बक्सर, आरा, दानापुर, पाटलिपुत्र, हाजीपुर के रास्ते राजकोट और बरौनी के बीच संचालित की जा रही राजकोट-बरौनी-राजकोट स्पेशल ट्रेन के परिचालन अवधि में वृद्धि की गयी है. गाड़ी संख्या 09569 राजकोट-बरौनी साप्ताहिक स्पेशल 15, 22 एवं 29 दिसंबर को राजकोट से बरौनी के लिए प्रस्थान करेगी. इसी तरह गाड़ी संख्या 09570 बरौनी-राजकोट साप्ताहिक स्पेशल दिनांक 19, 24 एवं 31 दिसंबर को बरौनी से राजकोट के लिए प्रस्थान करेगी.

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES
(A Super Speciality, Autonomous Institute Of Govt. Of Bihar)
IGIMS Medical College, IGIMS Nursing College
Sheikhpura, Patna-14. EPBX:0612-2297099/2297631, Website: www.igims.org

Tender Notice No.: 01 / IGIMS / BME /Repair- Maint.

TENDER NOTIFICATION

Sealed tenders in two packet system (Technical & Financial bid) are invited from eligible and qualified manufacturers or their authorized distributors / agents for **repair / maintenance of modular Operation Theatre (Qty.: 02 Nos.)** Installed at this Institute.

The last date of submission of completed bidding document is 09.01.2024 up to 3 P.M. through Speed / Registered Post / Courier services. The technical bid will be opened on 10.01.2024 at 3 P.M.

The details terms & conditions and technical specifications of the system may be downloaded from Institute official Website: **www.igims.org.** The undersigned reserve the right to accept or reject any or all the tender without assigning any reasons. Prospective bidders are advised to regularly visit **www.igims.org** for corrigendum / amendments etc., if any. It will be notified on this website only and no separate advertisement will be made.

Director, I.G.I.M.S., Patna

सिटी बाइट्स

ऑल इंडिया रोड ट्रांसपोर्ट वर्कर्स फेडरेशन ने की बैठक

पटना. जमाल रोड स्थित सूर्या कॉम्प्लेक्स में सोमवार को ऑल इंडिया रोड ट्रांसपोर्ट वर्कर्स फेडरेशन बिहार की बैठक हुई. बैठक में फेडरेशन के महासचिव राजकुमार झा ने कहा कि बिहार की सरकार में कुछ भी मांगने से कोई फायदा नहीं है. अपने अधिकारों के लिए खुद ही लड़ना होगा. इसके लिए संगठन को मजबूत और कार्यकर्ताओं को प्रशिक्षित करना होगा. प्रशिक्षित करने के लिए फरवरी में एक राज्यस्तरीय वर्कशॉप एवं सभी जिलों में भी वर्कशॉप आयोजित किया जायेगा. इसके साथ ही कार्यकर्ताओं का मनोबल बढ़ाने के लिए उनके घर जाकर सम्मानित किया जायेगा. अध्यक्षता फेडरेशन के कार्यकारी अध्यक्ष चंचल मुखर्जी ने की. उद्घाटन राष्ट्रीय सचिव कामरेड जीवन साहा ने किया व मुख्य अतिथि सीटू बिहार के अध्यक्ष गणेश शंकर सिंह रहे. मौके पर पप्पू यादव, मोहम्मद ईलू, टीमन कुमार, नकुल सिंह, मोहम्मद सैदुल, लड्डू कुमार, कवारिस हुसैन, संजय कुमार, पवन फौजी व बिरेंद्र कुमार ने समस्याओं को रखा.

अंशुल होम्स की ओर से किया गया कंबल का वितरण

पटना. नेऊरा में छह दिवसीय श्री राम जानकी शुभ विवाहोत्सव मनाया गया. इसके अंतित दिन अंशुल होम्स प्राइवेट लिमिटेड के निदेशक राहुल कुमार भी शामिल हुए. उन्होंने वहां उपस्थित जरूरतमंद लोगों को कंबल वितरित किया. विवाहोत्सव के मौके पर लगभग पांच हजार श्रद्धालुओं ने प्रसाद के साथ-साथ भोजन भी ग्रहण किया.

बिहार विधान परिषद् सचिवालय

आवश्यक सूचना

विज्ञापन सं. -01/2023
(प्रतिवेदक के पद पर सीधी भर्ती हेतु)

बिहार विधान परिषद् सचिवालय के विज्ञापन सं. -01/2023 के अन्तर्गत प्रतिवेदक के रिक्त पदों पर सीधी भर्ती हेतु द्वितीय चरण की हिन्दी आशुलिपि जांच परीक्षा तथा हिन्दी एवं अंग्रेजी टंकण (कम्प्यूटर आधारित) जांच परीक्षा तथा एम. एस. ऑफिस वर्ड प्रोसेसिंग जांच परीक्षा के प्रकाशित परीक्षाफल में सफल अभ्यर्थियों को सूचित किया जाता है :-

1. बिहार विधान परिषद् सचिवालय के विज्ञापन सं.-01/2023 के आलोक में प्रतिवेदक के रिक्त पदों पर सीधी भर्ती हेतु साक्षात्कार का आयोजन दिनांक 26.12.2023, मंगलवार को समय 10:00 बजे से पू. बिहार विधान परिषद् सचिवालय के नवविस्तारित भवन में आयोजित है।
2. साक्षात्कार के लिए प्रवेश पत्र (Admit Card) बिहार विधान परिषद् की वेबसाईट http://www.biharvidhanparishad.gov.in पर दिनांक 19.12.2023 मंगलवार को 06:00 बजे अप. से उपलब्ध रहेगा।
3. आवेदक अपना Registration Id एवं Password के द्वारा ऑनलाईन लॉग ईन के माध्यम से प्रवेश- पत्र डाउनलोड कर सकते हैं।

आवेदकों को डाक से (By Post) प्रवेश-पत्र निर्गत नहीं किया जाएगा।

4. उपर्युक्त के संबंध में के संबंध में विस्तृत सूचना बिहार विधान परिषद् के वेबसाईट http://www.biharvidhanparishad.gov.in पर उपलब्ध है।

(कमलेन्दु कुमार सिंह)
निदेशक
बिहार विधान परिषद्

Oil on water: Chennai's mega cleaning challenge

An unexpected side effect of Cyclone Michaung, the oil spill in north Chennai is yet another reminder to the State to finalise an SOP for an ecological disaster that happens on shore. Geetha Srimathi and Deepa H. Ramakrishnan learn the costs of not doing so

Frantic operation: The Environment, Climate Change and Forest Department, along with the Chennai Petroleum Corporation Limited, has deployed 110 boats, 300 fishermen, and contract workers to manually remove oil from the surface of the creek. B. JOTHI RAMALINGAM

When Cyclone Michaung brought heavy rainfall to Chennai on December 4, residents of Manali and Ennore – industrial areas in the north of the city – faced a more vicious, and viscous, problem. Thick, dark oil deposits from guard ponds and storm-water drain ponds of the Chennai Petroleum Corporation Limited (CPCL) in Manali washed out with the floodwater, entered homes, Buckingham Canal, and, eventually, Ennore Creek.

After visuals of residents and flood relief volunteers wading through the sludge went viral on social media, the Tamil Nadu Pollution Control Board (TNPCB) inspected the site on December 7 and declared that "traces of oil" were found mainly on the banks of the canal. The mellow response was subsequently questioned by the National Green Tribunal (NGT), following which the State Oil Spill Crisis Management Group surveyed the area and concluded that the oil from CPCL adversely impacted the livelihoods of the fishing community.

The CPCL, initially denying reports of the spillage originating from its premises, started remediation works with a few gully suckers and boomers. As of last Friday, 46.8 tonnes of oil waste had been removed from the river.

'No pipeline leak'

In a later statement, the CPCL said Cyclone Michaung led to severe flooding in its Manali refinery. Further discharge of 48,000 cusecs of water from reservoirs of Poondi and Puzhal aggravated the situation. Further, as the level in the canal also increased, this likely caused a reverse flow and slipping of oil into Buckingham Canal. "There was no pipeline leak in the refinery as reported in the media," it said.

Meanwhile, the Environment, Climate Change and Forest (ECCF) Department, along with the CPCL, deployed 110 boats, 300 fisherfolk, and contract workers to manually remove oil from the surface of the creek. An additional 150 trained workers and two more oil skimmers are to be brought in.

Notably, the Tamil Nadu government does not yet have an approved oil spill disaster contingency plan as the draft plan sent to the Indian Coast Guard (ICG) in August 2021 remains unapproved.

While the ICG stated that oil has spread over 20 square kilometres from the Kosathalaiyar mouth into the sea till Kasimedu Fishing Harbour, the State government maintained that the booms placed at the creek have managed to contain the spread of oil despite drone visuals clearly showing seepage into the sea. Oil continues to flow along Kosasthalaiyar and Buckingham Canal, near Manali, as nearly two weeks after the oil spill, the interior areas have not started to recover.

The desultory approach to the remedial actions by the State government, district authorities, and the CPCL has revealed, once again, a glaring lack of preparedness in the event of an ecological disaster.

The CPCL on Saturday said additional containment booms of 350 m had been deployed, and 4 specialised agencies, with 182 trained personnel, had been pressed into service.

'Ad hoc protocol'

The ECCF Department claims to be following the draft contingency plan, which is "designed for use in responding to marine oil spills of any manner that occur within 24 km off the State's coast and riverine systems extending 40 km inland", for the oil spill clean up.

However, Supriya Sahu, Additional Chief Secretary in the ECCF Department, said, "There is a set standard operating procedure (SOP) when the oil spill happens in the ocean. You have big machines, ships; the Coast Guard comes in. But nobody has been able to share an SOP for an oil spill in an estuary."

Highlighting the lack of clarity on the process and the responsible authority for the clean-up operations, Nityanand Jayaraman, environmental activist, said: "First, we don't know who is in charge of what. The second thing is that the protective gear is inadequate, and fisherfolk have been employed without being informed of the risks."

> First, we don't know who is in charge of what. The second thing is that the protective gear is inadequate, and fisherfolk have been employed without being informed of the risks
>
> NITYANAND JAYARAMAN
> Environmental activist

Fishermen's demands

Fishermen of Nettukuppam, who have been affected by the second major oil spill in recent years, said the last time, it took over a year for breeding activity of fish to resume in their areas.

"This time, the quantity of oil seems twice as much as last time. I am afraid it will take us at least two years to come back to normal. At least a thousand boats, engines, and nets have oil deposits, rendering them unusable," said D. Joseph, a resident of the hamlet.

Sivanpadaiveedhi, Kattukuppam, Ennorekuppam, Thalangkuppam, Nettukuppam, Mugadwarakuppam, Chinnakuppam, and Periyakuppam have been affected by the oil.

"A lot of damage could have been avoided by just containment. The first response is what matters. And that did not happen till four days ago," Mr. Jayaraman said.

Fishing community leaders want jobs for the affected fishermen, and a reasonable compensation for the losses incurred. "We are also firm in our demand for only treated waters entering our waterbodies. So far, thermal power plants, and fertiliser and oil companies have only sullied our environment," said Kalaivanan, a fisherman.

M. Karunakaran, a fisherman from Kattukuppam, said people from his hamlet needed jobs more than relief funds as the impact of the oil spill would last for over a year.

A team from IIT-M has been lifting samples of the oil, water, and soil. According to a source, it will take them at least a week to get results. The team will identify the type of oil, which will help them form a remediation strategy. It is also likely to find out the quantum of the oil spill.

An oil industry expert in cleaning such spills said a similar incident had happened in Houston recently, and it had created a huge mess. The quantity of oil pushed by the floodwater seems quite large.

"Most of it has likely been pushed into the sea. If fishing is to be done in these areas, the sediments have to be removed and oil cleaned from that. This is going to be an expensive operation. The houses and goods can be cleaned. The soil and water have to be remediated. The sludge ponds should have been cleaned ahead of the rain. They are open ponds. There are many industries in the areas, and many of them have shop floors where oil and grease is used in large quantities. TNPCB should put in place some kind of SOP for removing the oil and grease in these units," he pointed out.

An abused river

R. Ramasubramanian, coastal systems researcher at M.S. Swaminathan Research Foundation, said the oil would cause major problems to marine life in the area. "Because of the oil presence, fish, crabs, and prawns won't get oxygen and will perish. Especially juvenile fishes that breed near the estuary, as they are fragile," he said.

"From the looks of it, the oil seems to contain a lot of sediment. When this settles on the riverbed, it will kill the smaller organisms like molluscs. So, the sediment has to be removed continuously for at least two weeks and remedied," he added.

The recent oil spill is only another blow to the Kosasthalaiyar, which is not new to mistreatment. "Spectacular incidents are the only ones that attract government attention," said Mr. Jayaraman, who has been involved in campaigns against environmental pollution in the Ennore-Manali region for years.

Notably, the NGT directed the State government to notify the unutilised portions of the Ennore wetlands under the Tamil Nadu Wetland Mission to protect them from further encroachments.

The Additional Chief Secretary, Environment, Forests and Climate Change was also asked to develop a plan for restoration of the fragile Ennore Creek ecosystem and wetland complex.

However, this is yet to be done.

BRIHANMUMBAI MUNICIPAL CORPORATION
TREE AUTHORITY
PUBLIC NOTICE

In accordance with the provision under section 8(3) (C) of the Maharashtra (Urban Areas) Protection & Preservation of Trees Act 1975 (As modified up to 24th June 2021), [illegible] proposals from E/ward, [illegible] proposal from F/South and [illegible] proposal from F/North ward in Zone-IV i.e. Total [illegible] proposals are received requesting approval of Hon. Municipal Commissioner & Chairman, Tree Authority BMC Tree Authority for removal of trees.

The information of the trees for cutting/ transplanting in above mentioned proposals is available on BMC website www.mcgm.gov.in > About us > Ward/Departments > Department Manuals > Gardens & Tree Authority >Documents> Notice 7 days- [illegible]

Objections/suggestions from citizens for above said proposals, if any, are invited in prescribed format within 7 days from the date of publishing of this NOTICE in the office of Supdt of Gardens & Tree Officer. You can also submit your suggestions/ objections in the prescribed format on Email [illegible]. Objections/suggestions received after this date will not be entertained which may please be noted.

Hearing for the objections suggestions is scheduled on [illegible]/01/2024 at 4.[illegible] pm to 5.[illegible] pm at the Office of Supdt. Of Gardens & Tree Officer. Those who find it necessary to attend this hearing can remain present with a copy of their Email/objection/ suggestion in prescribed format.

Supdt. Of Gardens & Tree Officer,
Office of the Tree Authority, Penguin Building, 2nd floor,
Veermata Jijabai Bhosle Udyan, Byculla (E), Mumbai-400027.
Tel. No.[illegible]
E-mail: [illegible]

PRO/ [illegible] /ADV/2023-24
Avoid self medication

Sd/-
Supdt. Of Gardens
& Tree Officer

BRIHANMUMBAI MUNICIPAL CORPORATION
No. Dy.Ch. Eng./[illegible]/W.S. dtd. 15.12.2023
e-TENDER NOTICE

The Municipal Commissioner of Greater Mumbai invites online e-Tenders for the following works on "Item Rate Basis" from the eligible bidders. The Bid Start Date & time and Bid End Date & time is specified in the detailed tender notice on BMC's website as well as on NIC Portal under "Tenders" section.

BRIHANMUMBAI MUNICIPAL CORPORATION e-Tender Notice	
Department:	Ch. Engg (M&E)
Section:	Dy.Ch.Engg.(M&E)W.S.
e-tender No.:	2023_MCGM_[illegible]_1
Subject:	Triennial Operation & Maintenance contract for Electrical installation & the stage lights at Prabodhankar Thackeray Natyagruha, Borivali(W) in R/C Ward
Bid Start: Bid Ends	Date-19.12.2023 Time-11.00 am Date-08.01.2024 Time- 16.00 pm
Portal:	Http://portal.mcgm.gov.in
Contact Person: a) Name: b) Contact No.(Office): c) Telephone No.: d) e-mail Address	E.E. (M&E) W.S. Shri. J.D. Shirsath 022-[illegible] 022-[illegible] [illegible]@mcgm.gov.in

The intending tenderers shall visit the Municipal website https://portal.mcgm.gov.in/ or NIC Portal https://mahatenders.gov.in for further details of the tender.

The tender documents will not be issued or received by post/courier.

PRO/ [illegible]/ADV/2023-24 Sd/-

[illegible] INSTITUTE OF MEDICAL SCIENCES
Tender Notice No.: [illegible]
TENDER NOTIFICATION

Sealed tenders in two packet system (Technical & Financial bid) are invited from eligible and qualified manufacturers or their authorized distributors / agents for repair / maintenance of modular Operation Theatre ([illegible] Nos.) installed at this Institute.

The last date of submission of completed bidding document is 08.01.2024 up to 3 P.M. through Speed / Registered Post / Courier services. The technical bid will be opened on 10.01.2024 at 3 P.M.

The details terms & conditions and technical specifications of the system may be downloaded from Institute official Website: www.igims.org. The undersigned reserve the right to accept or reject any or all the tender without assigning any reasons. Prospective bidders are advised to regularly visit www.igims.org for corrigendum / amendments etc., if any. It will be notified on this website only and no separate advertisement will be made.

Director, I.G.I.M.S., Patna

कार्यालय अतिरिक्त मुख्य अभियन्ता, सार्वजनिक निर्माण विभाग, संभाग प्रथम जोधपुर

क्रमांक: 3570 दिनांक: 06.12.2023

अल्पकालीन निविदा सूचना संख्या: 43/पीएमजीएसवाई/2023–24

NIB No.: PWD2324A3897

[illegible] http://dipr.rajasthan.gov.in व http://pwd.rajasthan.gov.in व http://pmgsytenders.raj.gov.in पर देखा जा सकता है। [illegible]

1.PWD2324WSOB16884

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सा.नि.वि. संभाग प्रथम, जोधपुर

DIPR/C/15761/2023

WESTERN RAILWAY-RAJKOT DIVISION
VARIOUS WORKS

E-Tender Notice No. [illegible] of 2023-24 date 13-12-2023. Address of the office: Divisional Railway Manager (Engg.), Western Railway, Kothi Compound, Rajkot, Gujarat - 360001. Website: [illegible]

Sr. No.	e-Tender No.	Name of the work	Approx. MT Cost (₹)	Date & Time of Opening of Tender
1	DRM-RJT-[illegible]	Rajkot Division: Providing LHS/RUB at Level crossing No. 169, 174, [illegible] between Rajkot-Okha section under Divisional Engineer (West) Rajkot's jurisdiction.	[illegible]	04/01/2024 15:00 Hrs.
2	DRM-RJT-[illegible]	Rajkot Division: Providing LHS/RUB at Level crossing No. [illegible] between Viramgam-Okha section and Level crossing No. [illegible] & 17 between Surendranagar-Dhrangadhra section under Divisional Engineer (East) Rajkot's jurisdiction.	[illegible]	04/01/2024 15:00 Hrs.
3	DRM-RJT-[illegible]	Rajkot Division: Provision of store and office building for Electrical [illegible] staff at Okha, Rajkot and Surendranagar.	[illegible]	04/01/2024 15:00 Hrs.
4	DRM-RJT-[illegible]	Rajkot Division: Rag picking and cleaning of track on approaches to various station under jurisdiction of Divisional Engineer (West) Rajkot.	[illegible]	04/01/2024 15:00 Hrs.
5	DRM-RJT-[illegible]	Annual repair and maintenance of bridges under jurisdiction of Sr. Section Engineer (Works) Hapa for a period of one year.	1,[illegible]	04/01/2024 15:00 Hrs.

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[illegible]

WATER SUPPLY AND SANITATION DEPT.,
GOVERNMENT OF MAHARASHTRA
Notice For Tender

Water Supply and Sanitation Department, Government of Maharashtra invites proposal from reputed and experienced companies to participate in the competitive bidding process of Procurement of Wireless Router, External Hard Disk, Tablet Computers, Smart Rack for Server, 98 Inch Touch Screen with VC Setup, Poly Carbonate Smart Podium with Pen Display etc. for the office of Ground Water Survey and Development Agency, Pune as well as to update the infrastructure data center in Ground Water Information Center building under National Hydrology Project through GEM Portal Bid Number GEM/2023/B/4347127.

For the detailed tender document, interested bidders should visit https://www.maharashtra.gov.in/1145/Tenders Or https://Water.maharashtra.gov.in

Tender Submission will be online only on GeM Portal and the deadline to submit the Proposal is 28.12.2023 (Time 07.00 PM)

Sd/-
Pratiksha Kadam,
Desk Officer,
Water Supply And Sanitation Department.
GOVERNMENT OF MAHARASHTRA

DGIPR/2023/2024/5796

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Oil on water: Chennai's mega cleaning challenge

An unexpected side effect of Cyclone Michaung, the oil spill in north Chennai is yet another reminder to the State to finalise an SOP for an ecological disaster that happens on shore. Geetha Srimathi and Deepa H. Ramakrishnan learn the costs of not doing so

When Cyclone Michaung brought heavy rainfall to Chennai on December 4, residents of Manali and Ennore – industrial areas in the northern part of the city – faced another, far more vicious, and viscous, problem.

In the days that followed, thick, dark oil deposits from guard ponds and storm-water drain ponds of the Chennai Petroleum Corporation Limited (CPCL) in Manali washed out with the floodwater, entered homes, Buckingham Canal, and, eventually, Ennore Creek.

After visuals of residents and flood relief volunteers wading through the sludge went viral on social media, the Tamil Nadu Pollution Control Board (TNPCB) inspected the site on December 7 and declared that "traces of oil" were found mainly on the banks of the canal.

The mellow response was subsequently questioned by the National Green Tribunal (NGT), following which the State Oil Spill Crisis Management Group, headed by the Chief Secretary, surveyed the area and concluded that the oil from CPCL adversely impacted the livelihoods of the fishing community.

The CPCL, initially denying reports of the spillage originating from its premises, started remediation works with a few gully suckers and boomers. It did not quantify the amount of oil-grease waste that reached the river and canal.

As of last Friday, 46.8 tonnes of oil waste, containing approximately 15 tonnes of oil, had been removed from the river.

'No pipeline leak'

In a later statement, the CPCL said Cyclone Michaung caused 36 hours of incessant rain, leading to severe flooding in its Manali refinery.

Further discharge of 48,000 cusecs of water from reservoirs of Poondi and Puzhal aggravated the situation. It said due to unprecedented flooding, mixing of floodwater with contaminated rainwater systems of the refinery, was likely the cause. Further, as the level in the canal also increased around one metre above normal storm-water level, this likely caused a reverse flow and slipping of oil into Buckingham Canal (outside the boundary). "There was no pipeline leak in the refinery as reported in the media," it said.

"In Manali, there are about 25 industries and around 500 small units, comprising upstream and downstream units, along tributaries leading to Ennore Creek, and all these industries are to be taken into account while looking into the issue of oil slippage in the floodwater," the CPCL said.

Meanwhile, the Environment, Climate Change and Forest (ECCF) Department, along with the CPCL, deployed 110 boats, 300 fisherfolk, and contract workers to manually remove oil from the surface of the creek. An additional 150 trained workers and two more oil skimmers are to be brought in.

Notably, the Tamil Nadu government does not yet have an approved oil spill disaster contingency plan as the draft plan sent to the Indian Coast Guard (ICG) in August 2021 remains unapproved.

While the ICG stated that oil has spread over 20 square kilometres from the Kosathalaiyar mouth into the sea till Kasimedu Fishing Harbour, the State government maintained that the booms placed at the creek have managed to contain the spread of oil despite drone visuals clearly showing seepage into the sea. Oil continues to flow along Kosasthalaiyar and Buckingham Canal, near Manali, as nearly two weeks after the oil spill, the interior areas have not started to recover.

The desultory approach to the remedial actions by the State government, district authorities, and the CPCL has revealed, once again, a glaring lack of preparedness in the event of an ecological disaster.

The CPCL on Saturday said additional containment booms of 350 m had been deployed, and 4 specialised agencies, with 182 trained personnel, had been pressed into service.

'Ad hoc protocol'

The ECCF Department claims to be following the draft contingency plan, which is "designed for use in responding to marine oil spills of any manner that occur within 24 km off the State's coast and riverine systems extending 40 km inland", for the oil spill clean up.

Frantic operation: The Environment, Climate Change and Forest Department, along with the Chennai Petroleum Corporation Limited, has deployed 110 boats, 300 fishermen, and contract workers to manually remove oil from the surface of the creek. B. JOTHI RAMALINGAM

However, Supriya Sahu, Additional Chief Secretary in the ECCF Department, said, "There is a set standard operating procedure (SOP) when the oil spill happens in the ocean. You have big machines, ships; the Coast Guard comes in. But nobody has been able to share an SOP for an oil spill in an estuary."

The draft plan specifies that the nodal agency is the Tamil Nadu State Disaster Management Authority (TNSDMA) and the on-scene commander is the Collector. However, while initially the Environment Department managed with experts from Chennai port, which has a wing that deals with oil spills, since December 12, it has started working with the Indian Institute of Technology-Madras (IIT-M).

Highlighting the lack of clarity on the process and the responsible authority for the clean-up operations, Nityanand Jayaraman, environmental activist, said: "First, we don't know who is in charge of what. The second thing is that the protective gear is inadequate, and fisherfolk have been employed without being informed of the risks."

> First, we don't know who is in charge of what. The second thing is that the protective gear is inadequate, and fisherfolk have been employed without being informed of the risks
>
> **NITYANAND JAYARAMAN** Environmental activist

A fisherman from Kattukuppam said that during the first two days of the remediation work at the creek, no personal protective equipment was provided. After the NGT stressed on protective gear, some of the fisherfolk were given rubber boots, gloves, and masks. When *The Hindu* visited Ennore on Friday, a group of fishermen employed to clean the creek left the used rubber boots and gloves in their boats and stepped into the oily waters barefoot to walk home.

Fishermen's demands

Fishermen of Nettukuppam, who have been affected by the second major oil spill in recent years, said the last time, it took over a year for breeding activity of fish to resume in their areas.

"This time, the quantity of oil seems twice as much as last time. I am afraid it will take us at least two years to come back to normal. Until then, what will happen to our livelihoods? At least a thousand boats, engines, and nets have oil deposits, rendering them unusable," said D. Joseph, a resident of the hamlet.

Sivanpadaiveedhi, Kattukuppam, Ennorekuppam, Thalangkuppam, Nettukuppam, Mugadwarakuppam, Chinnakuppam, and Periyakuppam have been affected by the oil.

Fishing community leaders want jobs for the affected fishermen, and a reasonable compensation for the losses incurred. "We are also firm in our demand for only treated waters entering our waterbodies. So far, thermal power plants, and fertiliser and oil companies have only sullied our environment," said Kalaivanan, a fisherman.

M. Karunakaran, a fisherman from Kattukuppam, said people from his hamlet needed jobs more than relief funds as the impact of the oil spill would last for over a year.

A team from IIT-M has been lifting samples of the oil, water, and soil. According to a source, it will take them at least a week to get results. The team will identify the type of oil, which will help them form a remediation strategy. It is also likely to find out the quantum of the oil spill, soil, and water and sediment in the water and deposits on the banks of Buckingham Canal and the Kosasthalaiyar.

An oil industry expert in cleaning such spills said a similar incident had happened in Houston recently, and it had created a huge mess. The quantity of oil pushed by the floodwater seems quite large.

"Most of it has likely been pushed into the sea. If fishing is to be done in these areas, the sediments have to be removed and oil cleaned from that. This is going to be an expensive operation. The houses and goods can be cleaned. The soil and water have to be remediated. The sludge ponds should have been cleaned ahead of the rain. They are open ponds. There are many industries in the areas, and many of them have shop floors where oil and grease is used in large quantities. TNPCB should put in place some kind of SOP for removing the oil and grease in these units," he pointed out.

An abused river

R. Ramasubramanian, coastal systems researcher at M.S. Swaminathan Research Foundation, said the oil would cause major problems to marine life in the area. "Because of the oil presence, fish, crabs, and prawns won't get oxygen and will perish. Especially juvenile fishes that breed near the estuary, as they are fragile," he said.

"From the looks of it, the oil seems to contain a lot of sediment. When this settles on the riverbed, it will kill the smaller organisms like molluscs. So, the sediment has to be removed continuously for at least two weeks and remedied," he added.

The recent oil spill is only another blow to the Kosasthalaiyar, which is not new to mistreatment. "Spectacular incidents are the only ones that attract government attention," said Mr. Jayaraman, who has been involved in campaigns against environmental pollution in the Ennore-Manali region for years.

Notably, the NGT directed the State government to notify the unutilised portions of the Ennore wetlands under the Tamil Nadu Wetland Mission to protect them from further encroachments.

The Additional Chief Secretary, Environment, Forests and Climate Change was also asked to develop a plan for restoration of the fragile Ennore Creek ecosystem and wetland complex.

However, this is yet to be done.

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Security breach: police officials seek details of deleted Facebook page, accounts

Press Trust of India
NEW DELHI

Delhi Police has written to Meta to access social media accounts of the six accused arrested in the Parliament security breach case and details of the now-deleted Facebook page 'Bhagat Singh Fan Club', where they met each other, according to sources.

One of the accused arrested in Parliament security breach case

Police have collected bank account details of all the accused to see if they received money from someone for executing the December 13 incident, they said on Monday.

According to sources, police have also approached Google Pay and Paytm to know if there were any digital transactions on the bank accounts of the accused.

Various police teams approached family members of the accused on Sunday and collected details of their bank accounts. Bank passbooks of accused Neelam Devi and Sagar Sharma were seized from their residences in Haryana's Jind and Uttar Pradesh's Lucknow, respectively, sources said.

UAPA invoked

A total of six accused have been arrested so far in the case. Apart from Sagar and Neelam, other accused are Manoranjan D, Amol Shinde, Lalit Jha and Mahesh Kumawat. They have been booked under the stringent Unlawful Activities (Prevention) Act (UAPA). A team of Special Cell visited Manoranjan's residence in Mysuru on Monday and recorded the statements of his parents and relatives. The family was asked about his bank details and foreign visits, sources said, adding the team remained at his residence for at least seven hours.

Plea opposed

Meanwhile, the Delhi Police opposed before a court an application filed by an accused seeking a copy of the FIR, asserting the "leak' of "crucial information" at this stage can influence the investigation.

The police made the submission before Special Judge Hardeep Kaur, who reserved for December 19 the order on the application filed by Neelam Azad. The only woman accused arrested in the case has claimed not providing her a copy of the FIR violated her "constitutional right" as she was unaware about the charges against her. Police told the court that the copy of the FIR is in a "sealed cover" because of its sensitive nature.

Stripping case: HC expresses anguish

The Hindu Bureau
BENGALURU

It is high time for the authorities to deal with the 'collective cowardice' among people for remaining mute spectators to offences committed in public places and fix 'collective responsibility', the High Court Karnataka said on Monday.

The court made these observations while expressing anguish over the fact that 50-60 villagers had remained 'mute spectators' when a group of 13 assailants recently stripped, assaulted and tied a woman to an electricity pole in a public place in Vantamuri village of Belagavi district after her son eloped with a girl of the same village.

A division Bench comprising Chief Justice Prasanna B. Varale and Justice Krishna S. Dixit, which on December 11 had suo motu taken cognisance of the incident, on Monday took note of the fact from the status report, submitted by the police, which indicated that only one person had came forward to help the woman among the 50-60 persons, who had gathered when the woman was being assaulted.

NGT questions Tamil Nadu government on how oil spill reached Pulicat

The Hindu Bureau
CHENNAI

The southern Bench of the National Green Tribunal (NGT) on Monday questioned the State government and the Chennai Petroleum Corporation Limited (CPCL) on how the oil spill reached Pulicat backwaters if, as per reports submitted by the government, the slick was stopped from entering the sea.

Hearing a *suo motu* case on oil spill from CPCL's refinery in Manali during Cyclone Michaung, the Bench comprising Justice Pushpa Sathyanarayana and expert member Satyagopal Korlapati pressed the State government for reports on the effect of oil spill on marine species and birds. "If birds and fish are dying why are all the reports silent about it?," asked Justice Sathyanarayana.

Bharat Nirman through Rural Roads
Chief Engineer (Shimla Zone) HPPWD Nirman Bhawan
Nigam Vihar Shimla H.P., 171002
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Notice Inviting Tender
1. The Superintending Engineer, 11th Circle, HPPWD, [illegible] on behalf of Governor of Himachal Pradesh, invites the item rate bids, in electronic tendering system, for construction of roads under Pradhan Mantri Gram Sadak Yojana [illegible] registered with CPWD, HPPWD, [illegible], Railway and other State Govt. or Central Govt. [illegible] before signing the contract.
[illegible]
Superintending Engineer
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[illegible]
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[illegible] HIM SUCHANA AVAM JAN SAMPARK

Water Ways Division, Khunti
e-Procurement Notice (1st Call)
Tender Reference No. [illegible]
Date : [illegible]

1	Name of work	Reconstruction of Culvert at Chainage [illegible] Km, Chainage 14.487 Km and Chainage 14.524 Km of LMC Under [illegible] Scheme.
2(a)	Estimated Cost (Rs.)	Rs. 1,02,77,941.25 (Rupees One Crore Two Lakhs Seventy Seven thousand Nine Hundred forty One and Twenty Five Paise Only)
(b)	Bid Security (Rs.)	Rs. 2,05,600/- (Rupees Two Lakh Five Thousand Six Hundred Only) (Online-mode)
3	Cost of Tender Document	Rs. 10,000/- (Rupees Ten Thousand only) (Online-mode)
4	Time of Completion	11 months (355 Days)
5	Date of Publication of Tender on Website	22.12.2023/From 03:00 pm
6	Last Date/Time for Submission of Bids Online	09.01.2024 (Upto 5:00 PM)
7	Date of Opening of e-tender	10.01.2024 (2:00 pm)
8	Name and address of Officer inviting tender	Executive Engineer, Water Ways Division, Khunti-[illegible]
9	Contact No. of Procurement Officer	[illegible]
10	E-mail ID	[illegible]
11	Help Line No. of e-Procurement	9771450780

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Water Ways Division, Khunti

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Senior Manager
Work Circle-4, Noida
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Govt. of Maharashtra
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Office of the Engineer-in-Chief, Rural Works Department, Bihar
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5. Last Date & Time for uploading tender Documents by bidder : [illegible]
6. Date, time for online opening of Technical bid : [illegible]
7. Last date, time and place for submission of [illegible]
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