



## THE OSI NEWSLETTER

The OSI Newsletter is published quarterly by Oil Spill India, an industry led forum supported by its advisory board. One of the central goals of OSI is bringing together the global spill response industry & its stakeholders in the region for enhanced cooperation in planning, prevention and response of any spill or disaster in marine ecosystem, concurrently building an informative schedule of the raising Global Standards. It is intended to function as a thought - starter, change - agent and signpost through the intellectual capital that accrues through the rich assortment of diverse, pertinent and eminently interesting subjects of concern to the spill, salvage, wreck removal & marine disaster industries besides showcasing the technological depth and knowledge repertoire of the industry.

## POWERED BY



The Energy and Climate Initiatives Society (ENCIS) is a registered non-profit organisation that supports, encourages & catalyzes the development, discussion and dissemination of consequential research and projects in energy and climate protection industries. An independent, nonpartisan organisation that facilitates stakeholder's analysis and decisions on policy frameworks and initiatives within the global frameworks of sustainable development.

ENCIS produces exclusive and pertinent multi-platform contents fostering inclusive economic prosperity through safer, cleaner, more equitable and climate-friendly energy initiatives.

With leading experts on environment, natural resources and energy, the Advisory Board of ENCIS provides the key impetus to the organisation's initiatives & strategic insights on the evolving global industry, steering an immensely profound impact on the economic, environmental and strategic landscapes of the future.

## Oil Spill India 2018 Links Drive for 'SWACHH SAMUNDRA' to Modi's 'SWACHH BHARAT ABHIYAN'



There are thousands of oil and chemical spills in coastal waters around the nation every year. The causes of these spills range from small ship collisions to fuel transfer mishaps, leakages from offshore construction platforms, to massive spill events. Oil Spill India (OSI), known for its rigorous work in this field, organized their 5<sup>th</sup> Annual Conference & Exhibition at the plush Constitution Club of India, New Delhi to highlight the global concerns on protection of marine environment.

The exclusive two-day conference held on July 05<sup>th</sup> & 06<sup>th</sup> focused on commitment towards preserving the marine environment and synergic efforts using technology to combat the aftermath of disasters. Representative form the Indian Coast Gard, FIPI, ONGC, IOCL, BPCL, ITOFP, IOPC Funds, OSRL, P&I club, OSROs, OEMs & related sectors, encompassing entire Oil & Gas + Maritime industry, were amongst the participants.

The Chief Guest for the event was IG VS Pathania, PTM, TM, Deputy Director General (Policy & Plans) Indian Coast Guard. Guests of Honour were Shri T. K. Sengupta, Director (Exploration & Production), FIPI, Dr. R.K. Malhotra, DG, FIPI, Mr. Jose Maura, Director, IOPC Funds & Shri. Anand Kumar, Co-Chairman, ENCIS.

The Congress kick-started with an inspiring Welcome Address by Conference Co-Chairman - Shri T. K. Sengupta, Director (Exploration & Production), FIPI, Special Address by Conference Chairman - Dr. R. K. Malhotra, DG, FIPI, Special Address by Guest of Honor, Mr. Jose Maura, Director, IOPC Funds, Inaugural Address by Chief Guest, IG VS Pathania, PTM, TM, Deputy Director General (Policy & Plans) Indian Coast Guard & Vote of Thanks by Shri. Anand Kumar, Co-Chairman, ENCIS.

The opening Leadership Panel discussion focused on Global, Regional & National Initiatives. The panelists were S. Rath (Member, PNGRB) threw light on how oil India limited came into existence and the glorious days of India petroleum Industry that began with its Inceptions. He also discussed the Socio economic issues that arises after an oil spill; P. K. Sharma (Director Operations, Oil India Limited) enlighten us with the story of discovering of oil in India and the glory the Indian oil industry has reached since digging up the first well at Digboi. He also talked about innovating in oil tourism in northeast India; Jose Maura (Director, IOPC Funds) explained how IOPC promotes safer shipping and transport while providing assistance training and tools for combating oil spills. He maintained that our efforts are not just enough and more needs to be done. He also quoted "All have to stand together for India to become strong"; Arti Chopra (Sr Exe -Preparedness Solutions, OSRL) focused her talk on delivering urgent regional response for combating oil Spills. She highlighted upon the OSRL's emergency response tactics; & Dr. P.B. Rastogi (Former Advisor to the Govt. of India, MoEFCC) encourages the companies to take commitment to environmental sustainability and to research on toxicity reduction technology. He also encouraged the corporate to collaborate and develop research together. The Panel discussion was Moderated by Shri. Ashok Varma, Former Director (Onshore), ONGC Limited.

The first technical session highlighted Emerging & Future Risks in Marine Environment. The session Chaired by DIG KR Deepak Kumar, OIC CGTC Kochi, Indian Coast Guard had Badal Roy (General Manager - Head Offshore Safety, ONGC Limited) discussed the issue of ocean reserves

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National News

Oil Spill India 2018 Links .... Continue



being overdrawn and spoke of unsustainable development and threats to the oceans. Sir highlighted the emerging need to harness oceanic energy and promote marine tourism; Capt. Sivaraman Krishnamurthi (Past President, The Nautical Institute, London) discussed the eminent need to improve the quality of the Indian ports. He drew the audience's attention towards the carelessness of operators while unloading the oil tankers which results into oil spilled waters near ports. He suggested Double hulk concept and increased penalties for oil tanker to stop this problem & Anne Reglain (Technical Adviser, ITOFF Ltd) brought to light the overlooked oil spill cases from the Indian Coasts. Talking about the incidents at the Chennai coast, she highlighted various challenges like lack of necessary equipments and lack of training as the most eminent problems there.

Dr. J. S. Sharma, Former GGM Corporate HSE, ONGC Limited chaired the second technical session in which Prevention, Contingency Plans & Integrated Response Capabilities were discussed. The speaker were Capt. D C Sekhar (Director, AlphaMERS Ltd) introduced the audience to a nonprofit foundation International Spill Control Organization, ISCO which provides guidelines for oil spill response strategies. He discussed the problem of group V sinking oils, which are rather forgotten about during the oil spill combat procedures. He discussed how these affect the marine flora and fauna. He urged the corporate to develop night time response services; Arti Chopra (Senior Executive- Preparedness Solutions, OSRL) talked about oil spill emergency management, plan development and structural approach for oil spill response. She focused on the necessity of training the employees in oil spill response exercises to reduce further gaps & Trond Gulbrandsøy (International Sales Manager, AllMaritim AS) pressed on improving the mechanical oil spill response strategy and developing products that could actually make a difference. He focused on improving the existing technology and conventional systems and to deliver better options for preparedness in the market.

The third technical session of the day was chaired by D. B. Kamble, General Manager HSSE (Corporate), BPCL with the theme "Spill/Toxicity Detection Tests & Technologies". The speakers were Capt. Kuldeep Singh (Vice President - Technical, Gallagher Marine Systems Llc) pressed upon the need to increase oil spill response awareness among the corporate. He highlighted the use of drones in aerial surveillance equipped with the FLIR photography instruments. He discussed how the spill modeling using various algorithms could help predict the oil spill movement; Dr. Maria Mansurova (Junior Scientist, Federal Institute of Material research and Testing, BAM Germany) introduced her tech, the spectrocube and presented the principle and capabilities of the device. She also tackled the issue of aquifer and ground water contamination during various oil projects & Dr. Gopal Bera (Assistant Research Scientist, Texas A&M University) introduced the Petrotox

model and how it can be used to calculate the effect of oil toxicity within the organisms of oil contaminated waters. He introduced a remedial passive dosing system for the infected organism to treat the effects of contamination.

R. K. Mehra, Former ED, BPCL chaired the fourth technical session in which Technologies - Mapping, Modelling & Remote Sensing were discussed. The speakers were Dr. Theo Hengstermann (Business development and sales, OPTIMARE Systems, GmbH) expressed concerns regarding accidental and illegal discharges from ship traffic and offshore installations. He discussed the use of SLAR and IR/UV technology for precise aerial scanning of hotspots in an oil spill & Neethra Ganesan (Head, HR, Admin & Finance, Viraj Clean Sea Enterprises Pvt. Ltd) discussed various strategies and plans that could actually be put to use for better oil spill response. She displayed that with better planning the oil spill response can actually be made cost efficient.

The day concluded with an open question-answer forum where the audience shared their observation with the speakers of OSI 2018. The Gala entertaining evening & dinner, with a very astounding acts from a celebrity illusionist & Mentalist Preveen Pandita.

The second day commenced with a technical session five was on Advances in Response Management & Mitigation & chaired by Joydev Lahiri, GM (Engg & HSE), Oil India Limited. Kevin Mirise, CFA (COO, MicroSorb) discussed about bioremediation through the Archea Lifeform and gave a new insight towards new data studies and application technologies. Michael Green Lauridsen, Segment Director Oil Spill Response APAC, DESMI Singapore Pte. Ltd shared his views on Investing in Complete offshore and Nearshore oil spill solutions with the latest technology demonstrating significant benefits in regards to interconnect ability, service, training and operations. John Hughes, Engineering Design manager, Ayles Fernie International told about the role of dispersants. He further talked about dispersants and how they are used on Oil spills being a pollutant or not. His discussion also included the basis of dispersant application engineering.

The sixth technical session, chaired by R. K. Mehra, Former ED, BPCL had the theme "Case

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National News

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Studies & Emerging Technologies". Pallav Kumar Singh (National Head for Outreach and Programme Implementation, Federation of Associations of Small Industries of India) talked about oil and ocean diplomacy. Further he added the need of compliance among the neighboring nations who tackle the oil spill situations in the international waters. Udai A. dutta (DY. CE - O&GPS, Oil India Limited) has provided an idea about the Basis schematics of well heads. He further talked about history of wells and what problems are being faced by us. Lastly, he talked about the remedial measures for the such problems. Dr. Sakshi Gupta (Scientist D, explosives Agent Detection Division, Laser Science and Technology Centre(LASTEC), DRDO) talked about the Laser Induced Fluorescence. She further elaborated the involvement of LASTEC towards the development of Laser based sensors. Her discussion ended with the future scope of this field in the years that are to come. Ashish Panwar (Committee member, social and Environmental Committee, UPES SPE student chapter) italked about the technology of DNA recombination. He also talked about the most commonly used Oil digesting Microbes.

Session seven on Conventions, Claims & Compensation - Developments & Legal Perspectives was chaired by Mr. Jose Maura, Director – IOPC Funds. The speakers were Thomas Liebert (Head, External Relations and conference, IOPC Funds, London) talked about the various incidents in different places such as Malaysia and Greece along with this he added the recent developments in these places. He ended his discussion with the adoption of internal assessment criteria for the employee's losses. Tony Paulson (director, International Group of P&I clubs) talked about the international group of P&I clubs and about the way of working of STOPIA and TOPIA. Dominic Jhonson (Partner, Holman Fenwick Wilan) talked about Oil Spill Compensation: who pays and how much? A global perspective.

D. B. Kamble, General Manager HSSE (Corporate), BPCL chaired the eighth technical session in Inland Spills, Shoreline Cleanup &



Wildlife Response were discussed. Sangeeta Nemani Venkata (Manager- Technical, HPCL) spoke on how the Mumbai Refinery has been able to efficiently produce over the years while keeping harmony with the environment and nearby vegetation. She explained the efficient usage of Online Robotic Cleaning of API Separators. Deepam Seth (Marketing Head, Potential Engineering) introduced the new generation of floatable skimming systems with gooseneck arrangements. The skimmers that were explained by him were of such great specifications that adapt according to different circumstances of oil spills. Bokam Rajshekhar (Phd Scholar, IIT Madras) effectively explained the hazardous aftereffects of oil spills that are due to inland oil spills. These spills prove to be carcinogenic and he clearly displayed through Monte Carlo Simulations that cancer risk levels have exceeded significantly well above the acceptable reach.

Technical session nine focused on Disaster Resilience: Assessment & Remediation chaired by Anand Kumar Co-Chairman, ENCIS. Speakers are Dr. Banwari Lal (Senior Director, The Energy and Resources Institute), Dr. Manoj Kumar ( Sr Research Manager (Biotechnology), Indian Oil R&D & Dr. K. Ramesh (Assistant Manager, HPCL R&D) talked about new technology & Product related to the session theme.

This was followed by Valedictory session comprising of Conference Shri. Anand Kumar, Shri. T.K. Sengupta, Mr. Jose Maura & Mr. Dominic Johnson. The session was moderatShri. Ashok Varma. The entire two-day conference was well summarised by the panelists, action points highlighted.

The two-day event was sensational, informative, with thought provoking deliberations, house full attendance, loads of takeaways, global perspectives shared & appreciation form the world community for hosting such a mega congress on Indian soil.

See You in 2020

National News

## Indian Coast Guard Averts Marine Oil Spill Threat



In a thrilling operation, Indian Coast Guard (ICG) on Monday morning averted marine oil spill threat by rescuing a vessel off Gujarat coast.

In a joint operation by ICG and other resource agencies ran aground the ill-fated apprehended vessel MV Henry that was caught with smuggled narcotics at the high seas.

As informed by the authorities, the vessel on completion of judicial trials was finally auctioned to M/S Khodiyar Trading, Porbandar for next course of action.

The vessel was shifted temporarily to the inner anchorage to make way for an inbound vessel at Porbandar. She reportedly drifted after her anchor cable parted and ran aground at about 400 meters West South West of the old light house outside Porbandar harbor.

Though, this vessel did not pose any threat to the navigational safety but the potent threat of oil pollution continued to loom over the coast of Gujarat as it houses about 230 KL High Speed Diesel onboard.

Immediately on receipt of information, the Coast Guard swung into action and mobilised their expertise in response to the situation.

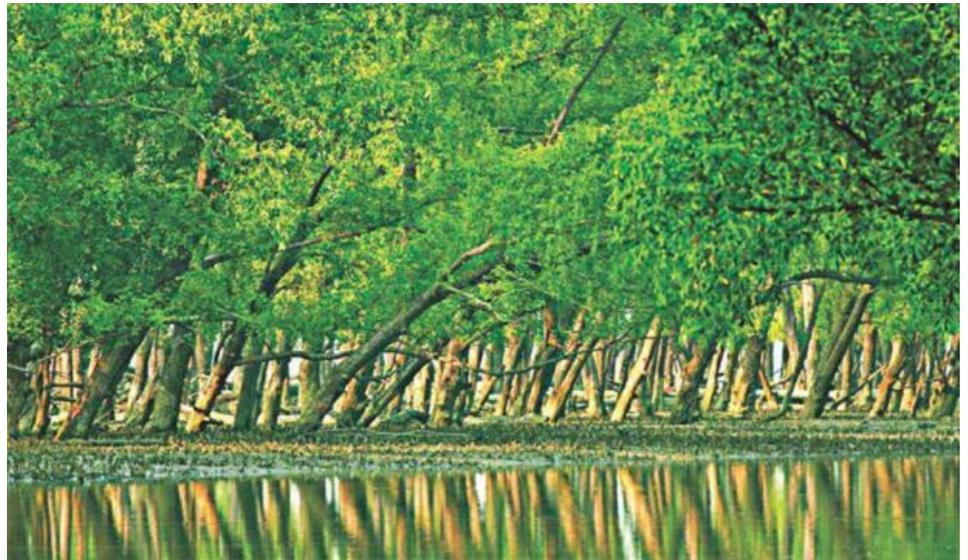
A pre-assessment helicopter sortie was conducted this morning and owing to the analysis, the defueling arrangements was undertaken by winching down Coast Guard personnel and equipment. Though there was no immediate threat but in order to ensure safety of the coast and marine ecosystem, the defueling of the diesel from ship to shore was commenced.

The preparedness to respond to any future developing scenario was also activated in conjunction with port authorities.

The prompt actions averted the marine pollution threat in the area as there are no signs of spillage in the immediate vicinity.

The Indian Coast Guard at Gujarat is also in a process of establishing a Pollution Response Team (NW) based at Vadinar by end July 18, to respond to all such eventualities on the Saurashtra coast as well as both the important Gulfs in the State of Gujarat.

## Ship Stranded off Sundarbans: India conducts ops to prevent major oil spill



India has roped in international expertise to prevent a major oil spill from a stranded cargo ship that caught fire in the Bay of Bengal close to the Sundarbans even as the government yesterday said a "minor oil leakage" took place from the vessel.

India's Directorate General of Shipping and its allied office, Mercantile Marine Department, Kolkata, the Indian Coast Guard and various authorities have been constantly monitoring the developments as efforts to salvage MV SSL Kolkata continued, said a statement issued by the defence ministry.

"There is no apparent damage caused to the environment as of now except a minor oil leakage from vessel which is being attended to with means of oil spill combating gear. Investigation by the directorate is under progress."

The vessel has been grounded at about eight nautical miles off the Indian side of Sundarbans since June 13 when its cargo area caught fire following an explosion. All 22 crew members were rescued by the Indian Coast Guard.

The operations to salvage the ship continued in rough weather with 2-4 metres of waves in the Bay.

The Salvors and M/s SMIT International are at the site and vessels, tugs, crane barges and oil spill response equipment have been mobilised and deployed for salvage and oil recovery operations, the statement said.

The International Tanker Owners Pollution Federation, a leading marine ship pollution response adviser, has also been appointed as specialists for advising and coordinating with local authorities.

A team from Oil Spill Response, the world's largest industry-funded agency for oil spill recovery, is also there to initiate preventive measures in the event of oil pollution.

Due to shallow waters at the spot, only small fishing vessels, trawlers or vessels with less draft can approach the ship and inclement weather due to south west monsoon is also proving to be a challenge.

Shallow draft barges have been requisitioned from Singapore and the UAE and are expected to reach the site soon, which will facilitate bunker oil and cargo removal operations.

A team from Le Floch Depollution, a specialised clean up contractor with expertise in mangroves, is also on site near the Sunderbans. A helicopter dispersant system is also being tested by the Indian Air Force team.

International News

## S'pore and Malaysia conduct joint chemical spill drill off Pulau Ubin



Singapore and Malaysia's marine authorities carried out an exercise off Pulau Ubin yesterday to see how they would deal with a collision between two tankers that sends 500 tonnes of a highly flammable chemical into the sea.

Within minutes, the Singapore Civil Defence Force's (SCDF) Marine Firefighting Vessel created a water curtain to suppress the vaporising benzene, and its officers evacuated a casualty.

The exercise was conducted by the Maritime and Port Authority of Singapore (MPA) and Marine Department of Malaysia (MDM) to test the joint emergency response plan for chemical spill incidents in the East Johor Strait.

The 90-minute exercise was part of a bilateral cooperation programme under the Malaysia-Singapore Joint Committee on the Environment.

It was developed by the MPA, MDM, the National Environment Agency (NEA) and the Johor Department of Environment (DOE).

The chemical tanker suffered damage to its cargo tanks and two crew members were injured. SCDF officers evacuated one casualty who needed immediate medical attention onto a Police Coast Guard vessel, which took him to shore.

The exercise also simulated a response to a gas leak that would be detectable to residents in surrounding areas. In the event of such a chemical spill, the MPA will implement the Chemical Contingency Plan (Marine), which covers the roles and responsibilities of the responding agencies for the cleanup operations.

The authority led Singapore's part of the joint response efforts in spillage cleanup and environment monitoring around the affected tanker, as well as the evacuation procedure.

Seven vessels and 50 officers from participating agencies in Singapore supported the exercise, including the Police Coast Guard, SCDF, Immigration and Checkpoints Authority, National Parks Board, Agri-Food and Veterinary Authority of Singapore and Oil Spill Response Limited.

MPA chief executive Andrew Tan said: "As chemical or oil spills are transboundary in nature, it is important that we conduct regular bilateral exercises with our immediate neighbours to strengthen regional and multi-agency response capabilities. Today's exercise ensures that all agencies are ready to respond swiftly and effectively in the event of a chemical spill."

NEA chief executive officer Ronnie Tay said: "Chemical spills can have a far-reaching impact on the environment and people. We are glad to have participated in this multi-agency exercise, which has allowed us to test our preparedness and sharpen our bilateral response in mitigating chemical spill incidents in the Strait of Johor."

## Damage control: Cleanup efforts underway after Doon oil spill



DOON—Uncertainties linger along with the crude oil still covering the ground south of Doon.

Cleanup crews continue their efforts to sop up the 160,000 gallons of oil spilled in a BNSF Railway train derailment in the early morning hours of Friday, June 22.

BNSF spokesman Andy Williams said the previous estimate of 230,000 gallons of oil spilled was wrong, and that 10 cars — not 14 — were compromised. The area and the number of acres involved still is being assessed, but Williams said, "We believe the footprint is smaller than we originally thought."

He said roughly 50 crew members — alongside representatives of the Environmental Protection Agency and the Iowa Department of Natural Resources — are working every day to clean the mess left behind in the derailment. The first week following the spill, 250 members worked in round-the-clock shifts, stopping only when lightning was present. After the derailed train cars were removed and the track rebuilt, the workload eased.

Williams said oil cleanup comes with numerous aspects that must receive attention. To help with that, BNSF hired a wildlife specialist from the University of California Davis to be on site and respond to impacted wildlife.

"To date, 27 reptiles and two mice were treated, and 24 have been released at a nearby wetland," Williams said.

Some impacted landowners are happy with the amount of work and effort that has been put forth in the cleanup, but questions remain about how long it will take and what effects it will hold down the road.

The shiny oil can be seen on plant life, in soybean and corn fields, coating grass in ditches and sitting on remaining pools of water after the June 21 flood. As a person gets closer to patches of oil, the pungent odor of tar is present.

Williams said much of the oil has been contained to a triangular area between the BNSF tracks, Garfield Avenue and 270th Street, and that area will be excavated.

International News

## Alberta oil company reports leak of more than 100,000 litres of oil and water



CALGARY - More than 100,000 litres of oil and water have leaked into a marsh east of Jenner in southern Alberta from an oil pipeline that belonged until recently to environment-focused Imaginea Energy Corp.

The liquids leaked from a line owned by Calgary-based Cor4 Oil Corp. and flowed down a hill into a marsh, the Alberta Energy Regulator reported on its website.

The spill of oil mixed with produced water was detected on Saturday afternoon, resulting in activation of Cor4's response plan and immediate AER notification, the company said in a statement Monday.

"The release has travelled off site, with a portion of the released fluids contacting a low-lying slough/grassy bog area," it said.

"Impact on wildlife is currently being assessed by specialists on site, but appears to have been minimal. Crews have physically contained the spilled fluids from causing further contamination, and have already recovered a significant volume of the released fluid from the surface."

The spill is affecting farmland that is not currently being used for pasture and the landowner has visited the site, it said.

The leak was detected by staff monitoring pipeline pressure within a few hours of when it began and appears to have come from a connection where a feeder pipeline leaves an oil-testing facility, said Cor4 CEO Colin Davies.

The volume of the spill is estimated by the company to be between 100,000 and 200,000 litres, down from its initial estimate of 250,000 litres.

"The line has been isolated and shut in," said AER spokeswoman Tracie Kenyon in an email. "Cleanup is underway. Vacuum trucks are on site collecting the released product and the company is removing impacted soil."

## Oil Spill Response using Real Time Tracking and GIS Technology



A new project taking place of the coastline of St. John's Newfoundland aims to reshape marine oil spill response through real-time tracking and GIS technology.

Integrated Informatics Inc., headquartered in Houston, Texas, recently received funding from the Newfoundland and Labrador Innovation Council to undertake a project that will aim to reshape the way in which asset and personnel tracking are handled for Marine Oil Spill Response in Newfoundland and Labrador.

The project will include the development of a new Tracking Data Management System to be deployed to Marine Emergency Response Industry users.

A spokesperson for Integrated Informatics, Sharon Janes, stated in a press release, "It is not uncommon to still see paper maps and documents heavily relied upon in Emergency Response Plans. The problem with these resources is that they do not present information that is as complete and current as possible within an emergency situation. This is what we are excited to help change – putting this data into the hands of responders as quickly and efficiently as possible."

The Tracking Data Management System will be completed by August 2019, consisting of a suite of applications for asset and personnel tracking and a data management system to streamline the acquisition of data necessary for emergency preparedness exercises and active response within command centers. These products will utilize Geographic Information System (GIS) technology – including rich mobile and web interfaces – as well as a robust data analytics and reporting dashboard.

Ms. Janes also stated, "By accessing asset and personnel tracking data through mobile devices and the web, first responders will be able to more efficiently interpret data, analyze trends, and plan response in real-time. Because this system rests on such a familiar platform [mobile, web], those with technical and non-technical backgrounds alike will be able to implement it into their workflows with ease."

The planned system is one that has long been of interest within the Emergency Response and Natural Resources sectors of the Province – especially as organizations explore new, more challenging environments alongside their own endeavors to align processes and practices with innovative digital technologies.

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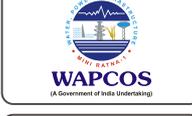
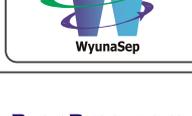
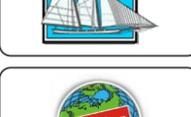
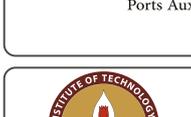
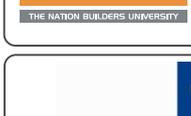
## SUPPORTING



## MEDIA



# OSI 2018 PARTICIPATING ORGANISATIONS

 Government of India Ministry of Environment, Forests & Climate Change		 PNGRB	 FIPI Federation of Indian Petroleum Industry	 DRDO	 ओ एन जी सी ONGC	 IndianOil   2018 YEAR OF TRUST
 Oil India Limited Conquering Newer Horizons	 Bharat Petroleum energising lives	 हिन्दुस्तान पेट्रोलियम HP	 EIL	 40 YEARS COMMEMORATING VICTIMS OF OIL POLLUTION DAMAGE	 ONGC एन आर जी सी MRPL	 IndianOil R&D The Power of Discoveries
 ओ पी एल OPAL	 BHARAT OMAN REFINERIES LIMITED	 WAPCOS (A Government of India Undertaking)	 Reliance Industries Limited Growth is Life	 Oil Spill Response	 ITOPF	 GOA Goa State Pollution Control Board
 GPCB	 PARADIP PORT TRUST पारादीप पोर्ट ट्रस्ट	 DESMI	 L&T Hydrocarbon Engineering	 VOGELSANG ENGINEERED TO WORK	 New Pig	
 Viraj Viraj Clean Sea Enterprises (P) Ltd.	 POTENTIAL ENGINEERING	 SWAN SWAN ENVIRONMENTAL	 LAMOR ENVIRONMENTAL SOLUTIONS	 AYLES FERNIE	 SP BUMI ARMADA	 All Maritim
 darcy Spillcare Manufacture	 ECOSONIC HEPTENES ECOSONIC HEPTENES	 SPILCARE Best Solution to Oil Pollution	 IGP&I	 3M Lakshmi	 ELEKTRONIK LAB SKY IS NOT THE LIMIT	 ERCON SPILL CONTAINMENT PALLETES
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