

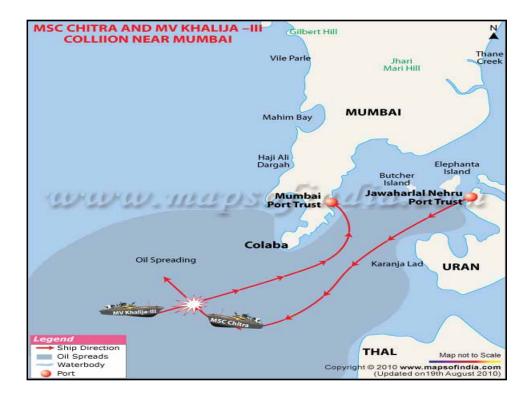


## **Ecological values of mangrove**

- Marine Fisheries It provide nursery habitat for many wildlife species, including commercial fish and crustaceans
- Wildlife Habitat- It support a range of wildlife species
- Improving Coastal Water Quality It maintain coastal water quality by abiotic and biotic retention, removal, and cycling of nutrients, pollutants,
- Protection of coastlines and Development It protect shorelines during storm events by absorbing wave energy and reducing the velocity of water passing through the root barrier







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a5	abc, 18/06/2013			
a6	abc, 18/06/2013			
а7	abc, 18/06/2013			
a8	abc, 18/06/2013			

## **Govt Initiatives**

- The report of collision of two ships received by MPCB on 07.08.2010
- FIR Vide No. 31/10 dt. 08/08/2010 is launched at Yellow Gate Police Station.
- The MPCB team has visited the Coast Guard Office and discussed the issue and threat being caused due to oil spill and Hazardous Cargos.
- Show cause notice is issued to MSC Chitra (Agency) India Pvt. Ltd., Compania Naviera Citra S. A. Panama on dt. 27-08-2010
- Board has also issued show cause notices and directed to Mumbai Port Trust and to Jawaharlal Nehru Port Trust to cope with incident and accelerate clean up in their jurisdiction.



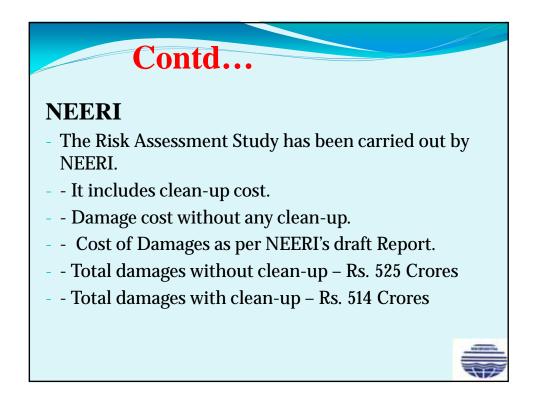
## Environmental Impact Assessment Study

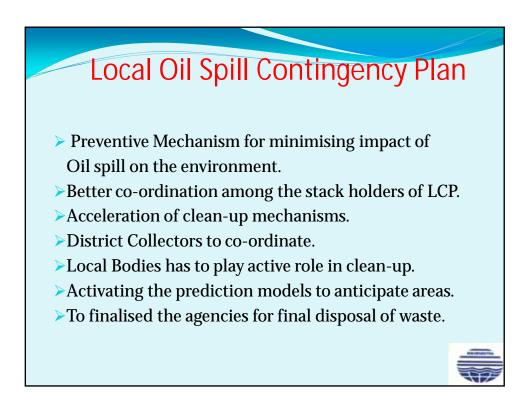
MPCB appointed National Institute of Oceanography and National Environmental Engineering Research Inst.

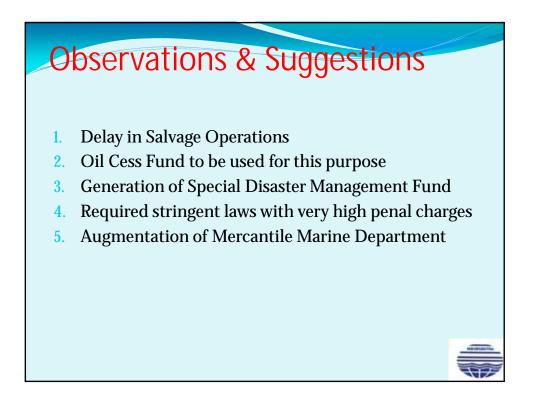
> NIO – Charterstics and threat of spilled oil.

- Model prediction of movement of oil and cargo

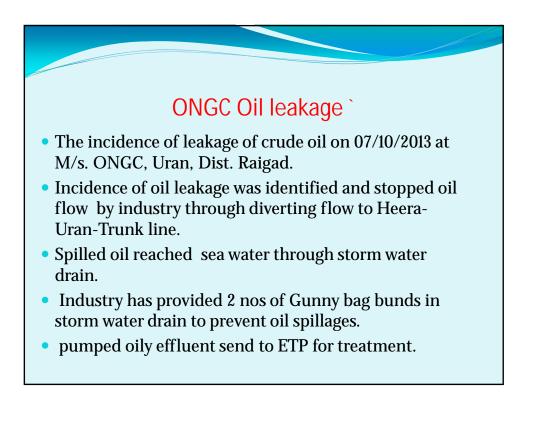
- Ecological Assessment such as impact on sediment quality, Flora and Fauna
- Impact of Genotoxic, Nuerotoxic and Xenobiotic contaminants on zoo planktone, mollusks and fishes noticed.
- Impact of oil on marine environment is difficult to assessment.



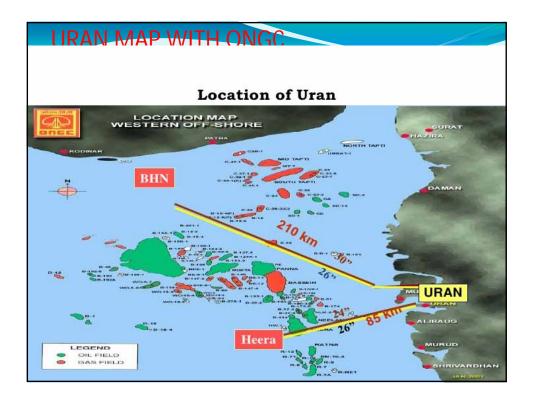


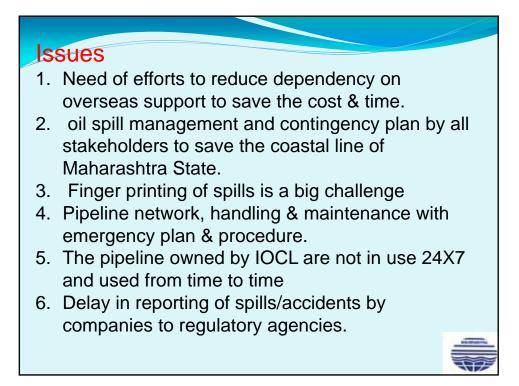


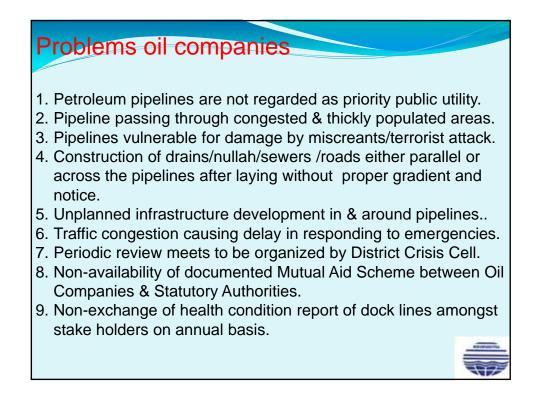




Quantification of crude oil									
	Sr No	Particulars	Quantity LTR						
	1	Crude oil leakage	5000						
	2	Crude oil collected in plant	1930						
	3	Crude oil recovered outside plant	1870						
	4	Crude oil recovered from sea	100						
	5	Not Recovered	1100						









- At present in the Mumbai area MbPT and JNPT as well as Oil refineries do not have facility to deal with the oil spill incidences, which is unfortunate considering the sensitivity of Mumbai area.
- As per National Oil Spill Disaster Contingency Plan (NOSDCP) the concerned oil companies shall provide Tier-I oil spill response capability at individual industry level.
- MbPT is responsible to have TIER I oil spill response facility for Mumbai and Harbor on behalf of oil companies.
- MoU signed between Port authorities & stakeholders on 18th Feb 2011.
- In this regards MPCB has issued directions and obtained B.G. of Rs.25 Lack from MbPT.
- After rigorous follow up MbPT has issued work order on 25/08/2014 to M/s Sadhav Shipping Ltd for commissioning of Tier-I facility.
- Expected date of commissioning of Tier-1 facility is Feb 2015.

Synopsis 0				Supergis of Contract & Schodule of Everytian											
Synopsis of Contract & Schedule of Execution															
MBPT OSR Tender Sayt Oct Nov Dec Jam Feb															
Synopsis of Contract & Schedule of Exe	cution	1 10 17	18 10 30	11012	18 10 31	1 10 13	18 10 30	1 10 13	24 10 32	1 10 17	28 10 32	1 10 13	24.5		
Description	Dates										<u> </u>				
1 LOI Received	25.08.14														
2 Acceptance / Acknowledgement	27.08.14														
3 Performance Guarantee (Rs2.78 cr)	22.09.14														
4 Signing of Contract	50.09.14														
5 Phasing of Work															
Furnish Phased Program of Work	03.09.14														
Pert/CPM Chart / Kick Off Meeting	08.09.14											-	⊢		
6 Establish Oil Spill Response Centre (OSRC)				-	-	<u> </u>	<u> </u>	-	-	<u> </u>		<u> </u>	⊢		
Inspection of site at MOT, Jawahar Dweep	05.09.14			-	-			-	-	<u> </u>	<u> </u>		⊢		
Submission of Plan for OSRC	30.09.14			-	-	-		-	-	<b>└</b>	<u> </u>	<u> </u>	⊢		
Approval of ORSC Plan by MbPT	10.10.14							-	-		<u> </u>	<u> </u>	⊢		
Hand Over of ORSC Site by MbPT	15.10.14						-	-	-	<u> </u>	<u> </u>	<u> </u>	⊢		
Disposal of Old Equipments	15.11.14							_	-		<u> </u>	-	-		
Construction of OSRC Office	15,12,14			-						-	<u> </u>		t		
Purchase & equip OSRC Office	30.12.14										<u> </u>	<u> </u>	t		
Develop storage space	30.12.14							_			<u> </u>	-	-		
Develop repair & maintainance yard	30.01.15												t		
Develop water front mooring & shelter facilities	30.01.15												F		
7 OSR Contingency Plan :															
Preparation and Submission of Plan	15.10.14														
Approval of draft plan by MBPT / JNPT	20.10.14														
Approval by Coast Guard	30,10,14														
Preparation of HSE Plan	15.11.14														
Preparation of Operations Manual	20.11.14.														
Call - off support services Agreement	30.01.15														
											-	-	1		
8 Purchase & Mobilisation of OSR Equipments												-	1		
Submission Vendor List to MbPT	15.09.14				L				-	<u> </u>			1		
Approval of Vendors by MbPT / ICG Issue Purchase Orders	20.09.14														

Inspection as per PO	05.01.15								
Delivery	15.01.15								
Delivery at Site	05.02.15								
9 OSR Vessel									
Construction and Delivery	30.01.15								
Mobilisation to Mumbai	05.02.15								
10 Work Boat									
Finalisation of Workboat	30.01.15								
Mobilisation to Mumbai	05.02.15								
11 Securing Govt. Licenses	05.02.15								
12 Recruitment of Personnel & Training									
Manager Operations, Technician, Responders, Master & Crew						_			
Training of Personnel	05.02.15				_	_			
Induction Training	08.02.15								
HSE specific training	10.02.15								
OSR Training - IMO Level 1	15.02.15	_				_			
On Job Equipment Training & Familierization	15.02.15								
Safe Handling & Boat Operations	15.02.15		_	-		_	_		
					_	_			
13 Commencement of Operations	24.02.15								





