

INDIAN COAST GUARD

OVERVIEW OF NATIONAL OIL SPILL DISASTER CONTINGENCY PLAN



INDIAN COAST GUARD PERSPECTIVE

A MULTI MISSION SERVICE

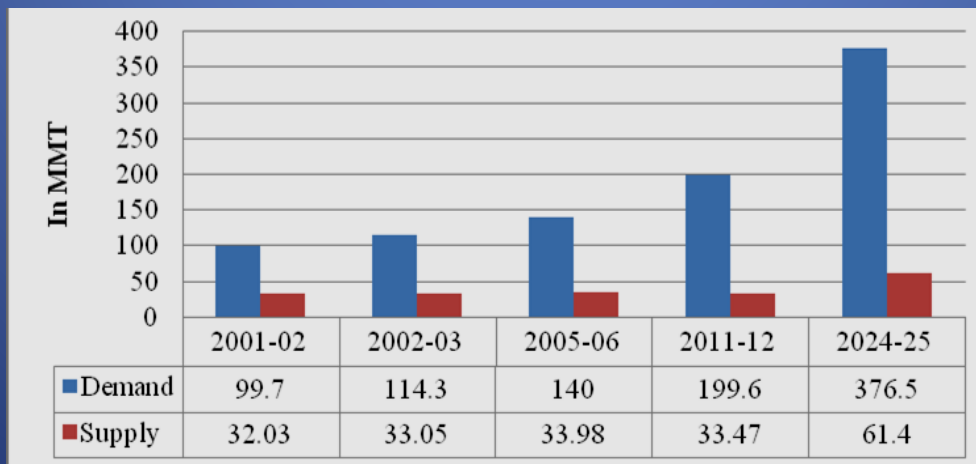


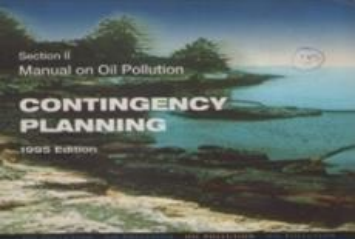
**BY
COMMANDANT JBS VIRK, TM**

INTRODUCTION

ENERGY OVERVIEW

- 6TH LARGEST ENERGY MARKET
- PRODUCTION 32-33 MMTPA
- IMPORT 140.25 MMPTA WEST & 46.75 MMPTA EAST COAST





NATIONAL CONTINGENCY PLAN

- INTERNATIONAL CONVENTION ON OIL POLLUTION AND PREPAREDNESS, RESPONSE AND COOPERATION (OPRC) 1990
- APPROVED BY COMMITTEE OF SECRETARIES IN 1993
- DELINEATES RESPONSIBILITIES OF STAKEHOLDERS
- SYSTEMISES NATIONAL PREPAREDNESS AND RESPONSE
- OBLIGES COMMITMENT OF RESOURCES FOR OSR



INDIAN COAST GUARD

MEASURES AND INITIATIVES

ICG POLLUTION RESPONSE CAPABILITIES



THREE POLLUTION RESPONSE TEAMS (PRT) AT MUMBAI, CHENNAI AND PORT BLAIR.

IN ADDITION READY RESPONSE EQUIPMENT AT VADINAR, KOCHI AND VIZAG

THREE INDIGENOUS 2400 TONS PCVs

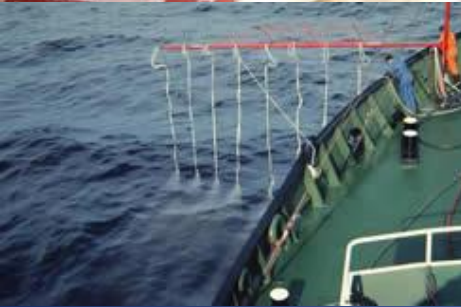
FURTHER AUGMENTATION IN EACH MARITIME STATE

ICG POLLUTION RESPONSE capabilities

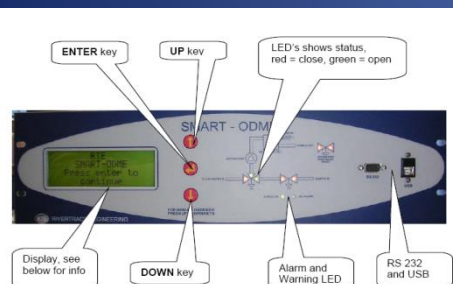


- **DEDICATED POLLUTION RESPONSE VESSEL**
 - 02 COMMISSIONED
 - 01 WILL BE INDUCTED SHORTLY

PCV PR EQUIPMENT AND SYSTEM



- SWEEPING ARMS - 02 Nos.
- OPTI SKIMMER - 02 Nos.
- DISK SKIMMER - 02 Nos.
- WEIR SKIMMER - 02 Nos.
- BOOMS - 02 Nos.
- HYDRAULIC WASTE COMPACTOR - 06 Nos.
- OIL RECOVERY OPERATIONS (ORO) SYSTEM
- OIL DISCHARGE MONITORING EQUIPMENT (ODME)



ICG POLLUTION RESPONSE CAPABILITIES



➤ **OPV WITH INTEGRAL PR EQUIPMENT**



➤ **IPV AND SMALLER VESSELS CAN BE FITTED WITH OSD SPRAY ARMS**



➤ **HELI - SKIMMER
SELF PROPELLED OIL RECOVERY SYSTEM**

ICG POLLUTION RESPONSE CAPABILITIES



➤ DORNIER WITH OSD SPRAY PODS



➤ CHETAK WITH UNDER SLUNG
TC-III SPRAY BUCKET

ICG POLLUTION RESPONSE CAPABILITIES



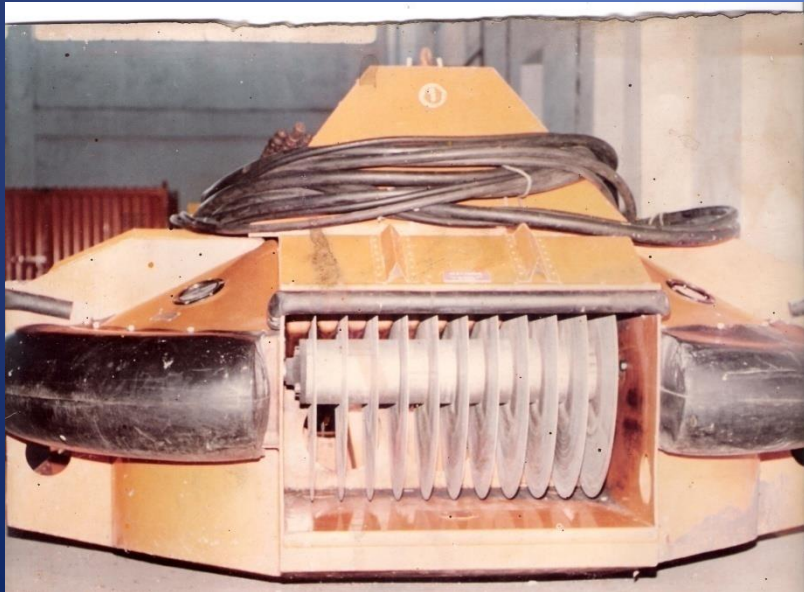
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ICG POLLUTION RESPONSE CAPABILITIES



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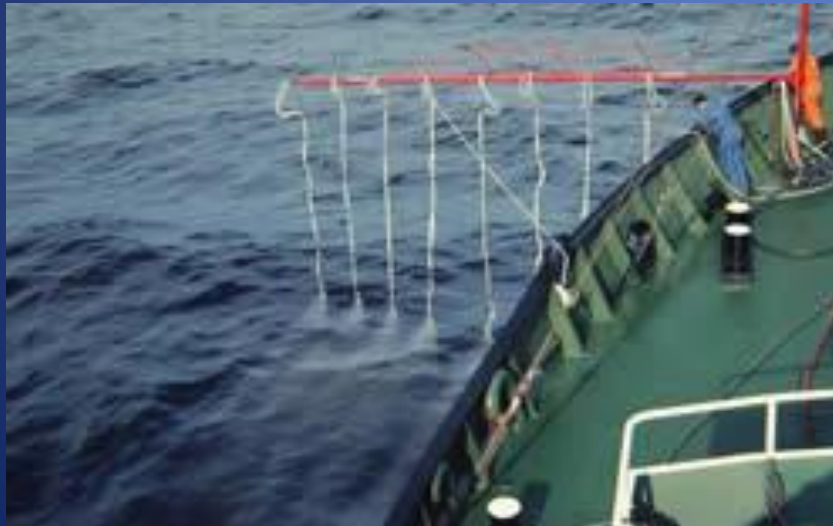


ICG POLLUTION RESPONSE CAPABILITIES

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ICG POLLUTION RESPONSE CAPABILITIES



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ICG POLLUTION RESPONSE CAPABILITIES



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TRAINING

IMO LEVEL -1 TRAINING



IMO LEVEL 1 TRAINING CONDUCTED BY PRTs FOR FIRST RESPONDERS

TRAINING – IMO LEVEL -1



➤ TRAINING PROGRAMME STRUCTURED ON SYLLABUS PROMULGATED BY IMO.

➤ MEANT FOR FIRST RESPONDENT IN POLLUTION RESPONSE.

➤ PARTICIPANTS FROM OIL HANDLING AGENCIES.

➤ 05 DAYS TRAINING ENCOMPASSES CLASS ROOM INSTRUCTIONS, PRACTICALS / VIDEO DEMO ON EQUIPMENT, VISIT TO AIR STATION AND VISIT ONBOARD OPV / AOPV.



IMO LEVEL -1



CLASS ROOM INSTRUCTIONS

IMO LEVEL -1



PRACTICAL DEMONSTRATION

IMO LEVEL -1



VISIT TO AIR STATION

IMO LEVEL -1



VISIT ONBOARD CGOPV

TRAINING – IMO LEVEL -2



IMO LEVEL- 2 TRAINING CONDUCTED JOINTLY BY COAST GUARD AND AMET UNIVERSITY AT CHENNAI

TRAINING – IMO LEVEL -2



➤ TRAINING PROGRAMME STRUCTURED ON SYLLABUS PROMULGATED BY IMO.

➤ MEANT FOR ON SCENE COMMANDERS

➤ PARTICIPANTS FROM OIL HANDLING AGENCIES ARE TRAINED.

➤ 05 DAYS TRAINING ENCOMPASSES CLASS ROOM INSTRUCTIONS, VISIT TO PRT(E), SHORE LINE ASSESSMENT MEDIA AND TABLE TOP EXERCISES.



IMO LEVEL -2



CLASS ROOM INSTRUCTIONS

IMO LEVEL -2



VISIT TO PRT

IMO LEVEL -2



SHORE LINE ASSESSMENT

IMO LEVEL -2



VALIDATION

INTERNATIONAL TRAINING COOPERATION



TRILATERAL COOPERATION PROGRAMME INDO-SRILANKA-MALDIVES



- THE INDIAN COAST GUARD CONDUCTED IMO LEVEL 1 AND LEVEL 2 TRILATERAL TRAINING FROM 25 NOV 2013 TO 06 DEC 2013.
- SUBJECT MATTER EXPERTS FROM THE COAST GUARD AND DIFFERENT ORGANISATIONS INCLUDING NDMA , NIO, ONGC, STATE GOVT, MUMBAI UNIVERSITY ETC SERVED AS FACULTY.
- POST TRAINING, FOREIGN OFFICERS PARTICIPATED AS OBSERVERS IN THE FIFTH EDITION OF NATIONAL LEVEL POLLUTION RESPONSE EXERCISE AT SEA OFF MUMBAI ON 10 DEC 2013.

BANGLADESH OFFICERS TRAINING AT CGTC KOCHI



CURRICULUM ON OIL SPILL RESPONSE WAS COVERED IN 26 SESSIONS

EXERCISES

POLLUTION RESPONSE EXERCISES



EXERCISE	ANNUAL FREQUENCY	PARTICIPATION
LEVEL-1	TWO IN REGION, 06 TO 08	LOCAL
MOCK DRILLS	10 TO 12	FACILITY
LEVEL-2	ONE IN REGION, 04 TO 05	REGIONAL
LEVEL-3 (NATPOLREX)	ALTERNATE YEAR	NATIONAL

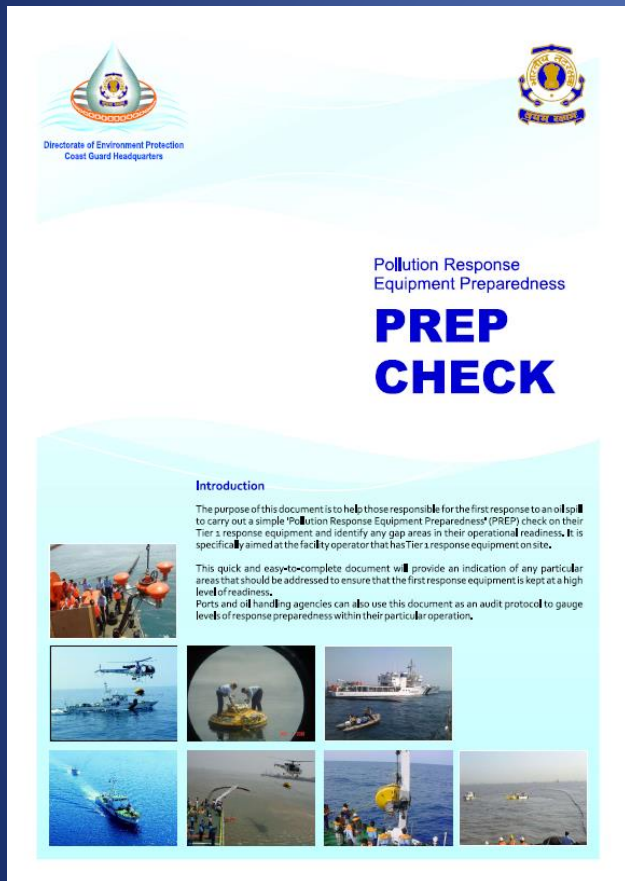
IMO LEVEL 3 EXERCISE



NATPOLREX - CLEAN SEA-V

- THE INDIAN COAST GUARD DEMONSTRATED PREPAREDNESS AND READINESS TO INTERVENE EFFECTIVELY IN CONTAINING AN OIL SPILL RESPONSE EXERCISE OFF MUMBAI FROM 09-10 DEC 2013.
- A TABLE TOP EXERCISE WAS CONDUCTED ON 09 DEC 2013, WHEREIN A SIMULATION WAS CARRIED OUT TO REHEARSE THE STANDARD OPERATING PROCEDURES OF VARIOUS STAKEHOLDERS FOR SEARCH AND RESCUE, ACTIVATION OF NOSDCP, OIL SPILL TRAJECTORY ASSESSMENT, MITIGATION MEASURE FOR RESOURCES AT RISK AND SHORELINE PROTECTION.
- AT SEA OIL SPILL RESPONSE EXERCISE WERE CONDUCTED ON 10 DEC 2013 OFF MUMBAI. EVOLUTIONS INCLUDED MOBILISATION OF VARIOUS RESOURCES, FIRE FIGHTING ASSISTANCE TO STRANDED SHIP, TOWING OF STRANDED VESSEL AWAY FROM COAST TO MINIMIZE THE EFFECT OF OIL SPILL ON THE COASTLINE AND PR OPERATIONS INCLUDED CONTAINMENT AND RECOVERY OF SPILT OIL, APPLICATION OF DISPERSANT BY ICG SHIPS/AIRCRAFT AND SHIPS OF OTHER RESOURCE AGENCIES.
- NINE INDIAN COAST GUARD SHIPS INCLUDING ONE POLLUTION CONTROL VESSEL, THREE CG CHETAKS, TWO DORNIER AIRCRAFT, ONE IAF SUPER HERCULES C130J AIRCRAFT, ONE INDIAN NAVAL SHIP, TWO TUGS FROM MBPT/JNPT, TWO OSVs FROM ONGC, TWO MMSVs/OSVs FROM OTHER RESOURCE AGENCIES AND ONE TANKER FROM SHIPPING CORPORATION OF INDIA PARTICIPATED.
- A TOTAL OF 58 PARTICIPANT FROM 35 AGENCIES PARTICIPATED IN THE EXERCISE.

JOINT INSPECTIONS



➤ CONTINGENCY PLANS OF PORTS AND OIL HANDLING AGENCIES ARE VETTED BY THE COAST GUARD

➤ INDIAN COAST GUARD AND MINISTRY OF SHIPPING (MoS) CONDUCT INSPECTION OF PORTS TO CHECK TIER -1 OIL SPILL RESPONSE CAPABILITIES .

➤ INDIAN COAST GUARD AND OIL INDUSTRY SAFETY DIRECTORATE (OISD) CONDUCTS INSPECTION OF CONCERNED OIL HANDLING AGENCIES

GLIMPSE OF INCIDENTS/ACCIDENTS

MV AMSTERDAM BRIDGE

➤ FLAG - ANTIGUA AND BARBUDA



➤ FIRE ONBOARD AT 1725H ON 09 SEP 12

➤ MUMBAI INNER ANCHORAGE



➤ 20 TONS FLAMMABLE LIQUIDS AND
7.6 TONS FLAMMABLE GAS

➤ 24 CONTAINERS CONTAINING
DANGEROUS CARGO

MV AMSTERDAM BRIDGE



- SOLID AND LIQUID SUBSTANCES – MARINE POLLUTANTS
- OPERATION “AGNISHAMAN” BY ICG, MBPT AND STAKE HOLDERS
- ICGS SANKALP, SAMRAT, SAMUDRA PRAHARI TOGETHER WITH MBPT TUGS AND ONGC OSVs WERE DEPLOYED TO CONTAIN FIRE. CG HELO KEPT AIR SURVEILLANCE
- PRT (W), CG DORNIER STANDBY
- EMBARKATION BY PROFESSIONAL SALVERS – 11 SEP 2012
- TERMINATED – 12 SEP 2012

MV MOL COMFORT



➤ ON 17 JUN 13, MRCC(MB) COORDINATED RESCUE OF 26 CREW OF MV MOL COMFORT 900NM OFF WEST COAST OF INDIA . AFTER THE CONTAINER VESSEL SUSTAIN UNCONTROLLED FLOODING DUE TO CRACK IN THE HULL.

➤ CONSTANT SURVEILLANCE WAS MAINTAINED BY AERIAL AND SURFACE UNITS .

➤ AFT PORTION OF THE VESSEL SANK ON 27 JUN 13

➤ ICGS SUMDRA PRAHARI ENGAGED IN FIRE FIGHTING OF FORWARD PORTION OF THE SHIP IN EXTREME WEATHER CONDITIONS. THE FORWARD PORTION SANK ON 11 JUL 13

➤ A VESSEL CARRIED ESTIMATED 2567 MT OF BUNKER FUEL AND 3355 MT OF HAZARDOUS CARGO AND MARINE POLLUTANTS



MSC CHITRA

MSC CHITRA



OIL SPILL OCCURRED AFTER MSC CHITRA AND MV KHILIJA-3 COLLIDED IN MUMBAI HARBOUR ON 07 AUGUST 2010



INCIDENT

- RUPTURE OF TWO FUEL TANKS SITUATED ON THE PORT SIDE
- OIL SPILL AT A STEADY RATE OF 20 TONS PER HOUR
- OIL EGRESS FROM THE TANKS STOPPED AFTER 48 HOURS RESULTING OIL SPILLAGE OF ABOUT 879 TONNES
- 300 CONTAINERS FELL OVER BOARD



IMPACT

- 60 KMS OF SHORELINE AREA, INCLUDING RESIDENTIAL, FISHERIES, MANGROVES, PORTS AND HISTORIC ISLANDS WERE AFFECTED
- SPILT OIL IN COASTAL AREAS AFFECTED FISHER FOLKS SERIOUSLY
- PORT'S TRAFFIC WAS CLOSED DUE TO FLOATING CONTAINERS

OIL SPILL RESPONSE

- ICG DEPLOYED 05 SHIPS, 02 HELICOPTERS AND 02 DORNIER AIRCRAFT
- SHORELINE RESPONSE TEAM INCLUDING OSRL, SINGAPORE UNDERTOOK SHORELINE CLEAN-UP
- END AUGUST 10, ALL THE SUNKEN CONTAINERS WERE IDENTIFIED AND REMOVED
- CONTAINERS ONBOARD WERE SAFELY REMOVED BY NOVEMBER 10
- TRAPPED OIL OF ABOUT 1200 TONNES OF FUEL WAS REMOVED BY THE SALVORS



CG 753 / MV CHITRA



CONTAINERS BEING RECOVERED

MV RAK CARRIER

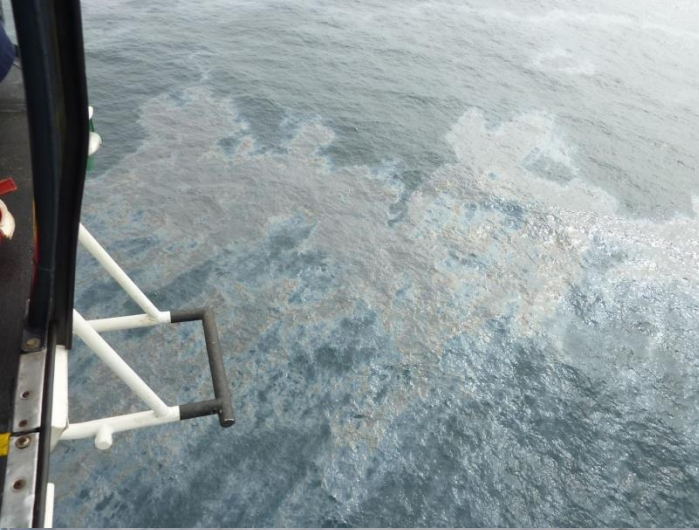
INCIDENT

- EXPERIENCED HEAVY FLOODING AND REQUESTED FOR ASSISTANCE ON 04 AUG 11
- CG AND IN HELICOPTERS SUCCESSFULLY EVACUATED ALL CREW OF ILL FATED VESSEL TO ASHORE
- SHIP SUBSEQUENTLY SANK DUE TO EXCESSIVE FLOODING
- SHIP WAS IN POSSESSION OF 340 T OF FUEL/DIESEL OIL ONBOARD
- CG SHIP REPORTED OIL SPILL FROM VESSEL ON 05 AUG 11

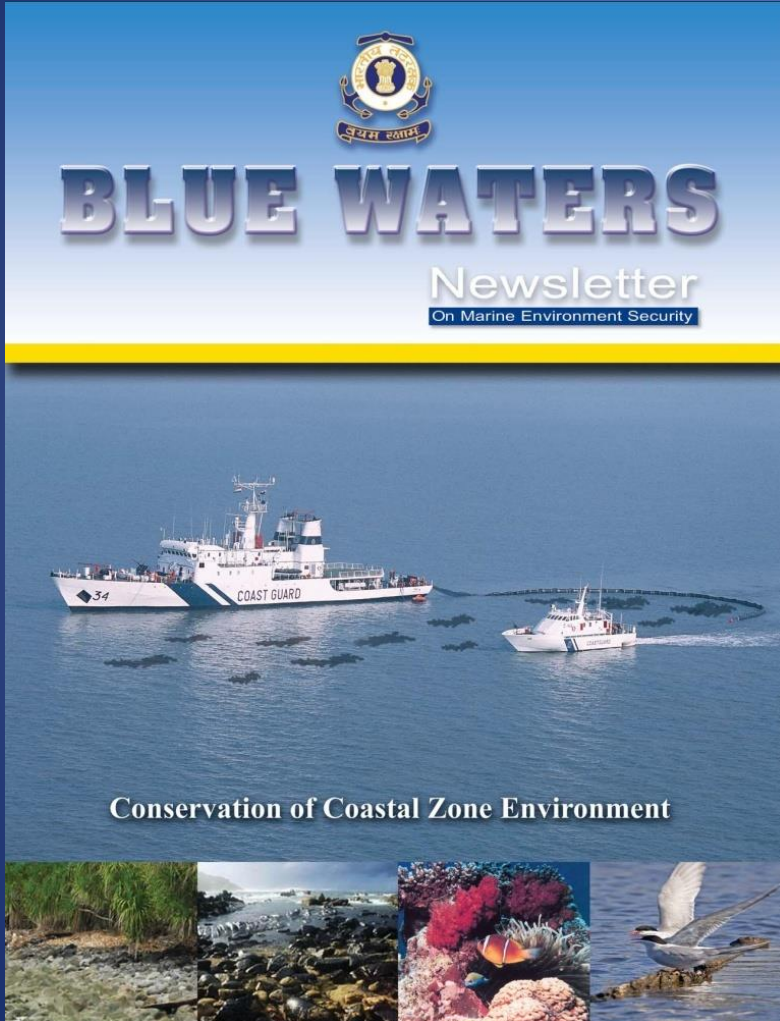


OIL SPILL RESPONSE

- COAST GUARD COMMENCED POLLUTION RESPONSE OPERATION
- COAST GUARD SHIPS AND AIR EFFORTS WERE DEPLOYED FOR 20 DAYS AND 8500 LTRS OF OIL SPILL DISPERSANT WAS SPRAYED
- CG TEAM COMPRISING OF 30 ENROLLED PERSONNEL ALONG WITH 70 WORKERS OF BMC COORDINATED SHORELINE CLEANUP OPERATIONS
- SURVEILLANCE ON THE WRECK WAS KEPT BY CG SHIPS



BLUE WATERS



- PUBLISHES MARINE ENVIRONMENT NEWS LETTER "BLUE WATERS" BI-ANNUALLY
- TO CREATE MARINE ENVIRONMENTAL AWARENESS

CONCLUSION

- MARITIME ENVIRONMENTAL PRESERVATION, PROTECTION AND POLLUTION PREVENTION AND CONTROL (P3C) IS A CHARTERED DUTY UNDER SECTION 14 OF CG ACT 1978
- COAST GUARD IS COMMITTED TO ACHIEVE AND MAINTAIN PREPAREDNESS WITH CO-OPERATION FROM ALL THE RESOURCE AGENCIES

An aerial photograph of a water sampling station on the ocean. Two white pipes extend from the center towards the top corners, each spraying a wide, white plume of water into the dark blue sea. The pipes are connected to a central orange buoy-like structure. Below the pipes, there are two black handles and some clear tubing. The background shows the textured surface of the water.

THANK YOU