GOVERNMENT OF INDIA
MINISTRY OF SHIPPING
LOK SABHA
UNSTARRED QUESTION NO. 4174
TO BE ANSWERED ON 18TH JULY, 2019

STUDY ON DISMANTLING OF OLD SHIPS

4174. SHRI P. P. CHAUDHARY:

Will the Minister of SHIPPING be pleased to state:
पोत परिवहन मंत्री

(a) the details of old ships being dismantled at Indian dismantling facility centres per year;

(b) whether the Government has done any study on dismantling of ships as it is a most dangerous profession in the world, both for workers and the environment and if so, the details thereof; and

(c) the status report on high levels of fatalities, injuries and work-related illnesses mainly from hazardous materials on board?

ANSWER

MINISTER OF STATE (INDEPENDENT CHARGE) FOR SHIPPING
(SHRI MANSUKH MANDAVIYA)

(a) Details of ships dismantled at Indian dismantling facilities during last 5 years, as reported by ship recycling centres, are as follows:

Year	Kolkata		Mumbai		Kannur (Kerala)		Alang-Sosiya	
	Total LDT	No.of ships	Total LDT	No.of ships	Total LDT	No.of ships	Total LDT	No.of ships
2014-15	10029	10	54426	39	1640	2	2490153	275
2015-16	5663	7	21281	17	1925	1	2431752	249
2016-17	7327	3	28694	25	300	1	2763167	259
2017-18	8563	6	10173	13	1707	2	2433347	253
2018-19	10783	7	9266	10	2422	4	1773249	219

(b) Yes, Sir. Details of studies conducted by Gujarat Maritime Board are given in **Annexure**.

(c) Details of total fatalities, injuries and work related illnesses during last five years, as reported by ship recycling centres, are as follows:

(i) There have been no cases of fatalities or injuries or work related illnesses in the ship recycling facilities at Kolkata and Kannur (Kerala).

(ii) There has been only one case of fatality in Mumbai during the year 2016-2017.

(iii) Details regarding the ship recycling yard at Alang-Sosiya are as follows:

Year	Fatalities	Injuries	Work-related illnesses
2014-15	13	25	As informed by Gujarat Maritime Board, no records in this regard are available as workers are being treated by the doctors suggested by respective plot holders as and when necessary.
2015-16	5	12	
2016-17	10	9	
2017-18	7	12	
2018-19	9	19	

Annexure to the reply to part (b) of Lok Sabha Unstarred Question No.4174

Details of studies undertaken by GMB for improving Ship Recycling Activity

Studies	Objectives	Status	Outcome of the Studies
1. Ecological Restoration and Planning for Alang-Sosiya Ship-breaking Yard-*1997* by Gujarat Ecological Society	To know ecological status and pollution potential in the Alang coast	No change in local vegetation pattern and pollution potential is low in inter tidal area	Solid waste management is recommended.
2. Modernization of Solid Waste Management Practices in Alang & Sosiya Ship Breaking Yard – 1998 by P U Asnanai	Quantification of solid waste and identification of alternative sites for landfills	General Waste Management Plan is drawn	Three sites were identified
3.Environmental Impact Assessment for selection of final site for Solid & Hazardous Waste Management Facility for Alang-Sosiya Ship Breaking Yards-1999 by Multi Media Consulting Engineers	To comply with regulatory requirement, Environment Impact Assessment of the identified sites were commissioned	Final Landfill Site in survey No.325/1/1 at Manar is selected through public hearing with other legal process	State Pollution Control Board notified the site for development of TSDF. Accordingly, GMB procured the land.
4. Comprehensive Waste Management Plan - 2000-01 by Engineers India Ltd.	Characterization and quantification of wastes, Design of TSDF and tender documents	First time in the Globe, Proper Quantification & Properties of Ship Recycling Wastes are done,	Landfill is constructed, which is under operation since 2005 and operated in compliance with Hazardous waste management rules enacted from time to time.
5. CRZ study to get the CRZ permission for the LPG Godowns at Alang	To get the CRZ clearance to set up the LPG Godowns at Alang to utilize it for cutting operation	Statutory compliance	CRZ clearance was obtained in 2000 from DoE&F, GoG. Risk Assessment and management plan is implanted for safety of the LPG cylinders storages as per prevailing rules of explosives, Department of Explosive.
6.Monitoring of Various Env Parameters at Alang through	Monitoring of environmental parameters of	Pollution potential in terms of water,	EMP was suggested for further monitoring which GPCB is implemented for

CSMCRI-GoI during 2005	ambience of Alang	air and soil are within the prescribed norms	protection of marine and coastal environment at Alang..
7. Health Risk Assessment of Ship Recycling Labors in 2007 by National Institute of Occupational Health ICMR institution	To check up prevalent pattern of occupational diseases among ship recycling workers	Results are not alarming since exposure of workers are limited for asbestos handling and other critical work streams.	Hazard prone operations in ship recycling in view of certain Risk were identified and suggested certain preventive measures and implemented. Viz Asbestos which are prone to occupational hazard is now handled as pre suggested method and proper PPEs are used which prevents direct expose to such hazards
8.Rapid EIA Studies for Supply & Installation of Incinerator for 5 MT/day capacity by SENES in 2011-12	Upgradation of various SHE infrastructure and modules to operate the yard	After public hearing, report was submitted to MOEF, New Delhi and GMB obtained EC in 2013.	GMB obtained Env Clearance for the same. The Incinerator at Alang has been operated as per EMP approved in Environmental Clearance granted by MOEF&CC complying with Air Pollution Control Norms of emission from chimney.
9.Green initiatives i.e. episodic environment impact assessment of various ship by CESE-IITB.	Capacity building among the stack holders to enhance the technique of safe and environmentally sound the ship recycling	Report is available with GMB for implementation.	Accordingly to the Time Motion Study undertaken by IITB, use of mixture of Butane , Propen and Oxygen could be more optimized for optimizing plate cutting with minimization of work zone particulate concentration. In puts for preparation of ship specific dismantling plan and episodic environmental management on ship wise is suggested for implementation.
10. EIA Study by MECON for upgradation of Existing Ship Recycling Yard to cater Safe & Environmentally Sound Ship Recycling at Alang	To get the EC/CRZ Clearance for upgradation of existing ship breaking yard	EC & CRZ clearance accorded by MoEF&CC for the upgradation project.	EIA study report suggests the environmentally sound practices at Alang. MECON has drawn Environment Management and work procedures for curbing environmental pollution and risk to the workers in carrying ship recycling.

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