



PANAJI PORT WASTEMANAGEMENT PLAN

CAPTAIN OF PORTS

PANAJI PORT

Port Waste Management Plan

PANAJI PORT

Panaji Port Waste Management Plan

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PREAMBLE

AIMS AND OBJECTIVES

The overall aim of this port waste management plan for the Panaji Port is to protect the marine environment by reducing discharges into the sea of ship generated wastes and cargo residues, to improve the availability and use of reception facilities and strengthen the enforcement regime.

Its objectives are

- To reduce illegal discharge of waste from vessels
- To fulfil legal duties with regard to waste management
- To consult with users, agents, operators, contractors and regulators in the development and implementation of waste management strategies and measures.
- To minimize the production of waste wherever possible
- To dispose of waste so as to minimize negative environment effects.

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1. THE PORT

OVERVIEW OF PORT ACTIVITIES

Panajiport isa open anchorage port . It is served by two major navigable rivers, the Zuari and the Mandovi which are also interconnected by the Cumbarjua canal. It is situated On the North: From the point on the coast in the parallel of Latitude 15 29'42'' North, due west along the same parallel point in Longitude 073 73'30'' East.

On the West: From the position in Latitude 15 29'42'' North and Longitude 073 73'30'' East in due South direction to the position 15 27'30'' N and Long 073 37'30'' E.

On the South: from the position in Lat 15 27'30'' N and Long 073 37'30'' N to a point where this parallel meets the coast and also coinciding within the northern limit of MPT.

On the East: All the tidal waters of the River Mandovi, River Mapusa and the waters of river Zuari, eastward at the Agasaim- Cortalim ferry points.

2. DEFINITION OF WASTES

Definitions in MARPOL 73/78 Regulations

2.1 MARPOL ANNEXES

Annex I : Oily Wastes (bilges, sludge, ballast, slops)

Annex II: Noxious Liquid Substances Carries in Bulk (dirty ballast, slops, tank washings)

Annex III: Pollution by Harmful Substances Carried by Sea in Packaged Form

Annex IV: Sewage

Annex V: Garbage

..... which includes- hazardous waste, food waste, glass, metal, plastics, paper/cardboard, wood, paint tins, batteries.

Annex VI: Prevention of Air Pollution from Ships

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SECTION I

3. PROCESS UNDERTAKEN BY THE PANAJI PORT TO ACHIEVE COMPLIANCE

3.1 CONSULTATION

Purpose

To ensure that the needs of potential users and waste regulators are taken into account when planning and operating port waste reception facilities; to ensure that all mariners are aware of the location, cost and procedures for using the facilities and also of the consultation arrangement for the future development of adequate facilities within the port.

Objective

The Panaji Port has taken its obligations seriously and has engaged in a consultation exercise with all links in the waste management chain in order to discuss and explain the implications of the waste management requirements on a national and international level. The objective has been to affect an exchange of information and to gain an understanding of the perspective of other parts of the waste management chain in order to devise a flexible and workable system.

To ensure the adequacy of the process, the Panaji Port has consulted ships' masters

Ships' agents

Waste contractors

Central Government

Goa State Pollution Control Board

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4. ANALYSIS OF NEED FOR WASTE RECEPTION FACILITES.

4.1 Purpose

To assemble information to allow the port to assess what facilities should be provided.

4.2 Methodology

Reproduced below is the questionnaire used to gain information in order to analyze types and quantities of wastes landed during a sample period, issued through the ships' agents.

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5. The Questionnaire

Ship Waste Assessment Form MARPOL 73/78 Appendix V

The data obtained by using these questions can be used to determine the type and capacity of reception facilities according to MARPOL 73/78.

1. SHIP CHARACTERISTICS

Tonnage :-----
Number of crew/passengers :-----
Last port of call :-----
Time spent in Special Area :-----
During last voyage (days) :-----
Next port of call :-----
Type port of call :-----
Type of propulsion/Incl :-----
Year of construction :-----
Ship Type :-----

Tanker

- Container ship
- Dry cargo
- Passenger / cruise ship
- Naval ship
- Other, i.e. _____

2. CARGO INFORMATION / OPERATIONS IN PORT

- Loading cargo
- Unloading cargo
- Tank washing
- Bunkering
- Deballasting
- Other, i.e. _____

Describe cargo/products on board subject to the provisions of :

- Annex I : -----
- Annex II : -----

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3. WASTE HANDLING OPERATIONS AND FACILITIES

ANNEX I – ONLY WASTES (bilges, sludge, ballast, slops)

Describe on board facilities for storage and processing of oily wastes
(type and capacity of separators, volume of waste storage tanks, etcetera)

Describe quantities of waste currently on board (in m³ or tons):

Dirty ballast : ----- Bilges :-----

Slops : ----- Sludges :-----

Tank washings : ----- Others :-----

Describe quantities of waste that have been discharged during last voyage (in
m³ or tons):

Estimate quantities of waste that will be generated on board while in the
port (tank washings, bilges, etc. in m³ or tons):

ANNEX II – NOXIOUS LIQUID SUBSTANCES CARRIED IN BULK

Describe on board facilities for storage of chemical wastes
(volume of storage tanks in m³)

Describe quantities and types of waste currently on board (in m³
or tons):

Describe quantities and types of waste that have been discharged during Last
voyage (in m³ or tons):

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Estimate quantities and types of waste that will be generated while Staying in the port (tank washings, etc. in m³ or tons):

ANNEX IV – SEWAGE

Describe on board facilities for treatment and storage (type, Capacity, volume of storage tanks, etc.):

Describe quantities of sewage currently on board (in m³ or tons)

Estimate quantity of sewage generated per day (in m³ or tons):

Describe quantities of garbage currently on board (in m³ or tons):

ANNEX V – GARBAGE

Domestic waste ----- Cargo associated waste-----
Maintenance waste ----- Others -----

Describe quantities and type of garbage which have been discharged during last voyage (in m³ or tons):

4. ADDITIONAL REMARKS

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SECTION II

6. THE PORT WASTE MANAGEMENT SYSTEM

6.1 INTRODUCTION

A system, as described in the following sections, has been put in place.

The Captain of Ports will be responsible for the implementation of the Port Waste Management Plan.

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7. PROCEDURES FOR THE USE OF THE PORT WASTE RECEPTION FACILITIES

7.1. Annex-I Oily Wastes (bilges, sludge, ballast, slops)

- a. Dumb Barge of 50 cu.m. capacity capable of receiving oily wastes/slops.

To be paid for by Ship's Agents as per "Scale of Rates".

- b. Shore based tank of 5 cu.m. capacity for collection of oily bilge water from barges.
and any other small crafts. This service is free of cost.

- c. By tanker small crafts. This service is free of cost.
No. of the contractor is as follows :

Sr. No.	Name of the firm	Address	Phone No.
1	Shiva Petro-synth Specialties Ltd. PIC : Shri Sajan Pillai	Karma Plaza, Shop No.11 Vasco da Gama, Goa 403 802	Phone : 0832-2500846 Mobile 9822122409 Fax: 0832-2501018
2	Canacona Hydrocarbon	Plot No.89, VP Shreeshal, Canacona Industrial Estate, Canacona, South Goa, Goa 403702	Mobile 9445708888, 9421944499, 9448258930, 90089 39999

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Agents are requested to impress upon Masters to refrain from disposing off oily wastes to any other Company / persons other than those mentioned above, as it is likely to have severe legal implications.

7.2 Annex II Noxious Liquid Substances Carried in Bulk (dirty ballast, slops, tank washings)

Receivers of chemicals which come under the category of NLS will provide earmarked tankage for the reception of NLS waste from vessels.

7.3 Annex IV Sewage:

Sewage reception facility is available only at berths. The Corporation of the city of Panaji (CCP) has Sewage treatment plant at Tonca, St.Inez. Ships can avail this facility at a nominal cost payable by Agents. A notice of 24 hrs. would be required by the CCP. However, if the sewage truck is idle, it can be sent to the vessel on a shorter notice.

Sewage collection from vessels calling Panaji anchorage to be carried out exclusively by Garbage Contractors licensed by the Port.

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7.4. Annex V Garbage

..... which includes – hazardous waste, food waste, glass, metal, plastics, paper/cardboard, wood, paint tins, batteries.

Ship's Agent may provide garbage collection service through private contractors licensed by the Port. The addresses/ contact nos.of the contractors are as follows :

Sr. No.	Name of the firm	Address	Phone No.
1	M/s Prabhakar R. Arolkar.	1 st Floor, Baba Sadan, Mangor Hill, Vasco Da Gama, Goa. 403802	Phone: 0832-2511985. Mobile:

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THE PANAJI PORT

7.5 Mandatory Provision

The Panaji Port has made available the system of port reception facilities for ship generated wastes. The Captain of Ports is the person responsible for the implementation of this Plan.

7.6 Mandatory Discharge

All vessels **MUST** discharge ship-generated waste before leaving the Panaji Port unless it can be demonstrated that storage space for such waste is sufficient. If retaining waste on board, a legitimate reason for not using the port reception facilities must be given.

7.7. Notification Requirement

The following information is required from ALL vessels prior to arrival

- Name /call sign/MMO number
- Flag state
- ETA/ETD
- Previous /next port of call
- Last port and date when ship generated wastes was delivered
- Whether delivering all/some /none of ship generated wastes into facilities.
- Type and amount of waste to be delivered /stored on board plus maximum storage capacity.
- The unit of measurement is cu m/kg

Agents are requested to impress upon Masters to fill up the notification form 24 hrs prior arrival. A format of the notification form is attached.

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Type	Waste to be delivered	Max Storage	Waste to be retained on board / % of max storage	Port where remaining waste will be delivered	Estimated waste between notification and next port	Last port & date where ship generate waste delivered	Delivering All Some None	✓
Food Waste m ³								
Plastic m ³								
General m ³								
Bilge Water m ³								
Other Oils (Specify) m ³								

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7.8. Notification Requirement

The checklist is to be completed by the Master and submitted to The Panaji Port via the ship's agent at least 24 hours prior to arrival. Transmission should preferably be by electronic means (e mail or fax). The Port will retain ALL notification records for 3 years. Failure to submit a checklist MAY result in delay in entry.

7.9. Cargo Waste

It will be the responsibility of both the ship and the stevedore/cargo receiver to collect and dispose of all waste accumulated from the loading /discharge of cargo.

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8. Location and Ease of Use

Following completion of the pre arrival checklist, agent will notify the waste contractor. **The contractor will collect from the vessels at anchorage in accordance with the type, amount and ease of access to the jetty.**

The Master will have a copy of the waste transfer documentation so that he proves discharge before sailing and at arrival at his next port of call.

Ships which wish to discharge oily wastes,

Such vessels will continue to make arrangements through their agents for such transfer and disposal of oily waste with specific licensed private contractors.

8.1 Records

The pre-notification form contains the details of each category of waste to be disposed of. This form will be kept for three years as a record of the actual use of the port reception facilities. All ships will be required to submit this form even where a vessel does not intend to discharge waste. The form will then act as a record of the total amount of waste disposed of in the port. The contractor will advise the port of the actual amount of waste removed from the port on monthly basis with details of quantities of each categories of garbage discharged with special reference to Plastics. Details may be provided latest by 5th of running month for the previous month.

Failure to provide these details may lead to cancellation of license.

Details may be provided in the following tabular format:

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For Garbage :

SR.NO .	DATE	NAME OF SHIP/BERTH	PLASTIC (m ³)	FOOD WASTE (m ³)	PLASTIC ASH(m ³)	OTHERS(DUNNAGE , GLASS, WOOD,PAPER, METAL)(m ³)
Total (m ³)						

For Oil/Sludge :

Sr. No.	Date	Vessel Name /Berth	Waste Oil quantity	Used Oil Quantity	Foreign/Costal	Permission Date	Permission granted b
Total (m ³)							

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9. Giving effective information to users

9.1 Purpose

As with the consultation exercise, to ensure that all mariners are aware of the location, cost and procedures for using the facilities, and also of the consultation arrangements for future development of adequate facilities within the port.

9.2 System

The proposed system incorporates a port waste management system and a ship based garbage information management system as already required by the International Maritime Organization (IMO). Each ship agent operating in the port, will be notified in writing of the facilities available, who will inform all vessels under their agency about the pre-arrival notification and the facilities available in the port. Each vessel will be required to complete the pre-arrival notification form even when there is a nil return.

10. Emergency Response Plan

Response to any emergencies of oil/chemical spillage will be as per Mormugao Port's "On Site Emergency Action Plan (Section 9, OSEAP)".

11.0 Grievance Procedure

In the case of any problem or grievance, complaints should be made immediately a problem arises through the agent to the Mormugao Port. Such complaints may be made verbally or in writing, but, if the latter, should be supported by written documentation at the earliest possible opportunity to facilitate resolution. If the grievance cannot be resolved using this procedure, the IMO form for reporting alleged inadequacy of port reception facilities should be completed and forwarded.

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12. Local Regulations

The regulation under which shore based Garbage is handled are governed by “Municipal Solid Wastes (Management and Handling) Rules, 2000”. They were published under the notification of the Government of India in the Ministry of Environment and Forests number S.O.783(E), dated, the 27th September, 1999 in the Gazette of India.

For information on the regulations visit web site <http://env.for.nic.in> by Ministry of Environment and Forests, Government of India.

13. Audit, Review and Training

13.1 Purpose

To ensure that port waste management facilities are relevant and are up to date, and that plans are implemented effectively.

13.2 Audit

Internal audits would be carried out annually to ensure proper and effective implementation of the plan.

13.3 Review

The plan will be reviewed in the month of July every year.

13.4 Training

Training program would be conducted by Panaji Port for employees, port users, contractors and agents at the interval of every six months to update and spread awareness regarding implementation of WMP.

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13.5 Compliance and Monitoring

Spot checks can be undertaken on vessel deemed unlikely to use facilities, Vessel logbooks of all waste generated during a voyage, plus disposal data, will form part of the inspection to ensure compliance and implementation.

13.6 Consultation

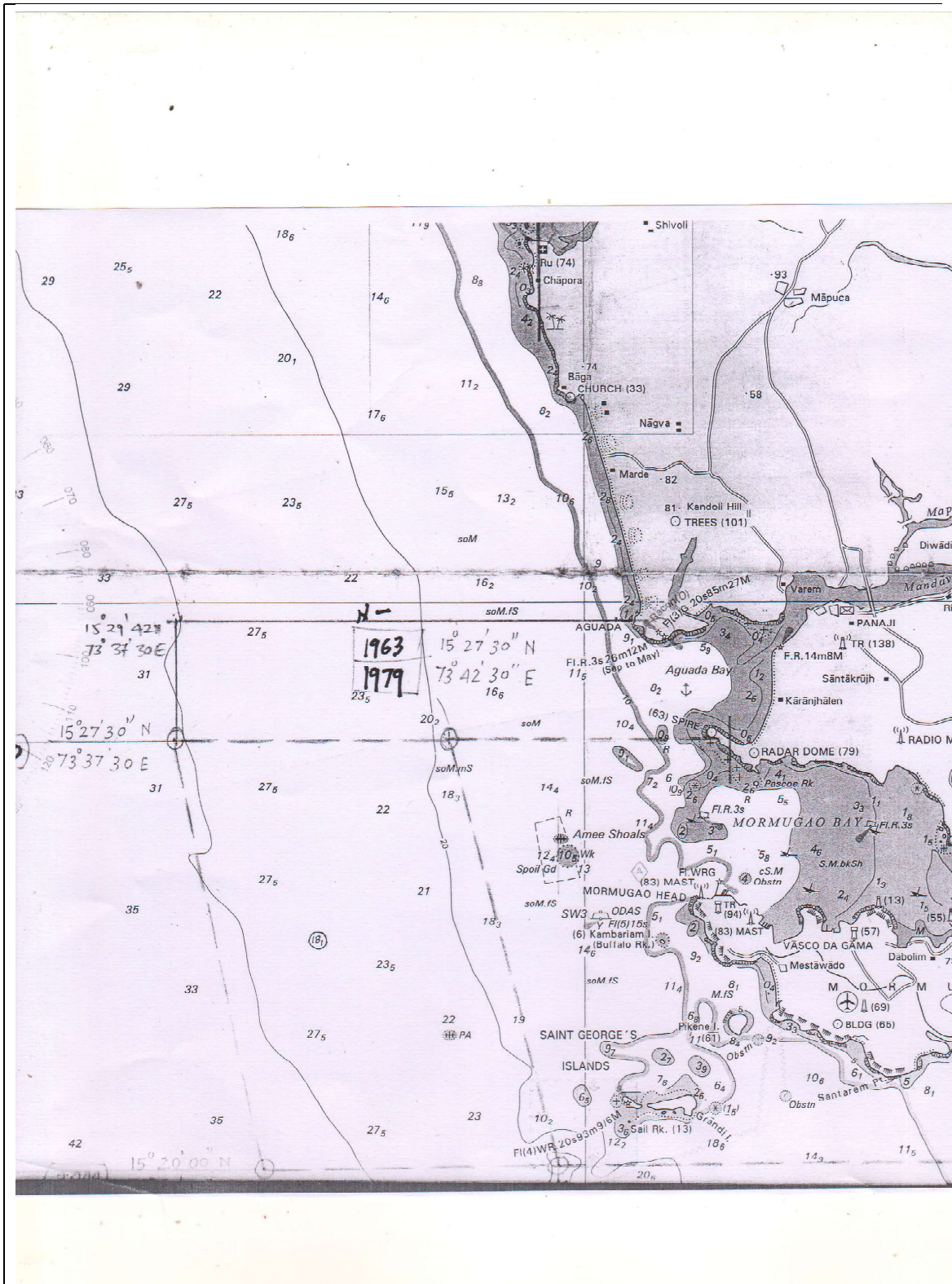
Representatives from Port Agents, Port Users, Goa pollution Control Board and the approved Waste Contractor will be consulted on an annual basis in order to confirm the adequacy of the system.

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CONTACT DIRECTORY

	Land Line	Mobile
CAPTAIN OF PORTS	0832-2225070 0832-2426109	9225905926
DEPUTY CAPTAIN OF PORTS	0832-2426109	9923390953
MARINE ENGINEER & SHIP SURVEYOR	0832-2426109 0832-2521653 0832-2521652	8805613030
RADIO OFFICER	0832-2420579 0832-2420580	9225905929

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