



# JAWAHARLAL NEHRU PORT TRUST

## PORT WASTE MANAGEMENT PLAN (FOR SHIP GENERATED WASTES)

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JAWAHARLAL NEHRU PORT TRUST  
MARINE DEPARTMENT

Port Waste Management Plan  
(For ship generated wastes)

References:

- a. The International Convention on the Prevention of Pollution from Ships (MARPOL 73/78).
- b. Engineering circular No. 31 & 32 of Directorate General of Shipping.
- c. The Merchant Shipping Act, 1958, as amended from time to time.

**Introduction**

1. Jawaharlal Nehru Port Trust is the 11th Major Port in India, located on the West Coast across the Mumbai harbour. The port was commissioned in 1989 with one container terminal and one bulk terminal. However, with rapid growth and development, the port now has 3 container terminals, one liquid cargo terminal and one shallow water berth. Two of the container terminals are operated by contractors on BOT basis. A total of 55.83 million tons of cargo was handled during the year 2007-08. The total number of ships handled by the port during this period was 3101.
2. As per the directions from the Director General of Shipping, a port waste management plan for ship generated waste has to be developed and implemented by the port authority. Responsibility for developing and implementing the ship generated waste management plan rests with the Deputy Conservator.
3. The responsibility of conservancy of the port channel and water front lies with the Deputy Conservator. A separate section namely Marine Conservancy and Pollution Control Section of the Marine Department is responsible for the navigational aids and pollution control activities.
4. As Directed by DG Shipping, the port has circulated Appendix - V of the Engineering Circular No. of 31 to assess the ship generated waste from the ships calling at the port. In addition, the Port has also circulated the IMO format for reporting Alleged Inadequancies in Port Reception

Facility. These two documents cover the established system of providing reception facility for Annex I & V wastes, which forms the basis of this Waste Management Plan.

5. The Port handled 3101 number of ships in the year 2007-08. In addition, to the ships handled, the Port has following fleet of owned and hired port crafts like tugs and launches :

Owned : 3 tugs, 3 Pilot launches, 2 mooring launches, 2 VIP Launches

Hired : 5 tugs, 2 Pilot boats, 1 security boat.

### **Legislation**

6. The Engineering circular No. 31 and 32 of DG Shipping requires the port authority or terminal operator to ensure that adequate reception facilities are provided to the ships calling at the Port or terminal to meet the needs of the ships. As a part of this process, the port or terminal is required to prepare and maintain a Waste Management Plan for ship generated wastes. The plan should include the provisions and use of facilities for reception of prescribed wastes as per MARPOL 73/78 from ships and crafts using the harbour.

7. The International Convention on the Prevention of pollution from ships (73/78) contains regulations pertaining to reception facilities to be provided by the port. The Annexes of MARPOL refer to specific waste categories. The category of wastes that affect JNPT and the manner in which they are dealt with are contained in this plan. Other terminals operating in JNPT have to prepare their own waste management plan and submit a copy to JNPT.

8. A map showing JNPT area is at Annex - 1.

9. **The Plan**

**Definition of Wastes :** The definition of various ship generated wastes is given in relevant Annexes of MARPOL. They are as follows, in brief :

Annex I Oily Wastes (bilges, sludge, slops)

Annex II Noxious Liquid Substances Carried 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

Annex VI Prevention of Air Pollution from Ships.

The categories normally under present consideration at JNPT are Annexes I and V

JNPT has put in place a system to facilitate the collection and disposal of wastes by licensed contractors from private facilities

10. A vessel that requires disposal of wastes as described below, makes contact with its agent, who in turn submits the request to the port authorities, as per prevailing procedures.

11. **Oily Waste (MARPOL ANNEX - I)**

The procedure to be followed by the agent for requesting the facilities is given in circular dtd. 10/10/2008 (Annex-2). The ship intending to discharge waste at JNPT informs the agent indicating the quantity of waste to be discharged. The agent is required to fill up the notification form as per Annex-3 and submit to the port, along with the undertaking from the port approved waste collector selected by them. This request is to be submitted to MC & PC Section at least 24 hrs. in advance. The port has granted permission to certain private contractors who are authorised by the Central & State Pollution Control Board and Indian Customs as authorised recyclers/re-processors, who are then granted permission by the Port as per their request to collect sludge oil from ships at the Port.

The private contractor is also required to submit bank guarantee presently to the tune of Rs. 1.5lakhs and insurance policy for public liability. The permission is granted by the Port, if all the above documents are valid. Such approved contractors are permitted to collect the sludge from ships at all the terminals in JNPT. The present list of such approved contractors and their validity are given in Annex - 4.

Permission Sludge discharge is permitted only between 6 AM to 6 PM as per the provisions of Rule No. 20 of Major Ports (Prevention and Control) of Pollution Rules 1991. The clearance of sludge from the Port area, Custom formalities, treatment and disposal of waste etc., are the responsibility of the Contractor as per relevant legislation.

**12. Wastes from noxious liquid substances (Annex - II)**

Presently Liquid substances operation is carried out at Liquid Cargo Jetty of M/s BPCL at JNPT by various Tank Farm Operators. Reception facility for MARPOL Annexure - II Waste (Noxious Liquid Substances) has to be provided by BPCL Terminal as per the license agreement between JNPT & BPCL. Hence, BPCL is entirely responsible for providing reception facility for Annex-II wastes in their terminal, either individually or through the Tank Farm Operators. The ship's agents are required to contact M/s BPCL for this issue.

**13. Waste from Harmful Substances carried in packaged form (Annex III):**

As per the survey carried out on visiting vessels, the requirement for reception facility for this waste is non existent at present. Hence, no such facility is provided by the Port.

**14. Sewage from Ships (Annex IV):**

As per the survey carried out on visiting vessels in JN Port, it has been observed that no vessel requires reception facility for sewage, as most of the vessels are having

sewage treatment plant on board. There is no demand for sewage waste collection at present. In case any requirement of the sewage waste facility arises in future, the same can be provided through road tankers belonging to contractor which can off load the sewage in the sewage treatment plant at Township or any other designated and recommended plant..

15. **Garbage (Annex : V)**

A garbage collection facility is provided to visit vessels at JNPT Terminals and hired Port crafts on chargeable basis ( Rs.500/- per visit per vessel + Service Tax) including holidays through a private Contractor. This service is provided free of charge to JNPT owned Port crafts every day. The format for requisitions this service is at Annex-6. The garbage is disposed off at designated place provided by PP&D Department, JNPT, out side the Port area. BPCL is also required to provide this facility to the vessels in their terminal. NSICT and GTI are having their respective contractors for providing garbage facility for their terminals and they also dispose off at the designated place provided by PP&D Department, JNPT, out side Port area. The PP&D Department is in the process of setting up a Solid Waste Management facility for treatment of garbage waste. Upon becoming operational, the garbage may be disposed off through this system.

16. **Prevention of Air Pollution from ship (Annex-VI) :**

As per the survey carried out on visiting ships, the requirement of reception facility for such waste is non existent at present. However, in case of requirement in future, a suitable mechanism may be evolved.

17. **Monitoring :**

The data on Annex-I waste is maintained and communicated to DG Shipping & CPCB/MPCB annually. The data is also analysed for changes in trend, quantum etc.

18. **Emergency Response Plan :**

The port's Emergency Action Plan will be followed in case of any emergency arising out of the handling of wastes. The EAP contains procedures for oil spill, leakages of Noxious Substances, fire, explosion etc.

19. **Audit & Review :**

This WMP will be subject to periodic audit and review. The frequency for audit may be within 2 years after implementation and thereafter every 3 years as per guidelines issued by DGS. The frequency for review will be yearly, or as and when required.

20. Training programme on waste management , environment management & protection, shall be arranged for different levels of the management and staff on a continuing basis. The trainings shall be awareness creation & knowledge enhancing type.

21. Relevant and applicable State and Local Legislations will be purchased and kept updated for reference purposes. The list of such publications available is given in Annex - 5 .

22. **Charges**

JNPT charges wharfage of Rs.25/- per/ton and Rs. 02 /- per/ton as weightment charge from the authorised Recycler/Reprocessor. The other two terminals i.e. DP World-NSICT and GTI also charge administrative charges from the authorised Recycler/Reprocessor per vessel for collection of garbage.

As Merchant Shipping Act 1958 (as amended) provides that the port may make charges



for providing such reception facilities, the Port may in future, levy appropriate charges for the reception facility provided.

For garbage reception facility, a nominal fee of Rs. 500/- per vessel per visit is charged on the ships visiting JNPT and on the hired Port crafts. No charge is levied for this service on the Port owned crafts.

23. **Consultation**

Regular meetings are carried out with all the sludge oil parties throughout the year. The circulars are also being issued for safe operation of sludge oil discharge.

The Port issues circulars on the procedure to be followed for availability of the reception facility. Periodical meetings with stake holders may also be held to review and upgrade the system.



JNP/M/MCPC/circular/2007/

10/10/2007

## CIRCULAR

As per earlier declared policy to protect Environment and as required by MARPOL 73/78, Annex - 1, Regulation 12, the port is permitting discharge of oily wastes to shore reception facilities from ships calling JN Port.

2. Ship Owners/Masters/Agents are required to comply with the Major Port (Prevention and control of pollution) Rules 1991 and other applicable rules, regulations etc. They shall pay all necessary charges to the party, Customs authorities, Authorised party etc.

3. The application for discharging oily wastes in the format should be submitted with a covering letter by ship agent, at least 24 Hrs. in advance to the MC&PC Section, Marine Department. Permission to discharge shall be granted only from 0600 Hrs. to 1800 Hrs. Dy. Conservator may grant special permission to discharge after 1800 Hrs. if the stay of vessel at port is only at night or any other issue worth considering.

4. The shipping line agents are required to submit the original e-mail printout sent by Master/ Chief Engineer of vessel with their counter signature and stamp alongwith their application for discharge of oily wastes.

This circular supersedes the earlier issued circulars dtd. 21/10/2000 and 06/09/2003.

The port will review the circular from time to time as and when it is necessary.

(Captain Jitendra Misra)

Dy. Conservator

Distribution :

1. MANSA/Vessel agents
2. All HOD for information
3. P.S to Chairman/ P.S. to Deputy Chairman for information

FORMAT (ON AGENT'S LETTER HEAD)

F: MAR: MC&amp;PC-11

The Manager (MCPC)  
JNPT.

**Sub : Discharge of sludge oil (oil, dirt and water)**

Vessel : ..... ETA : ..... ETD : .....  
Last Port of call ----- Next Port of Call- -----

Master of the above vessel has requested for discharge of \_\_\_\_\_ MT of sludge oil from the vessel.

The oil shall be discharged directly into lorries ( nos) on \_\_\_\_\_ after 0600 hrs. and before 1800 hrs by the authorized party, M/s. \_\_\_\_\_ nominated by us.

We take sole responsibility for the following :

1. For ensuring that the vessel and the party takes all oil spill and fire precautions.
2. For making arrangement for complete clean-up in case of oil spill,.
3. For forwarding a copy of this permission to the vessel before the start of discharge of sludge oil.
4. For necessary co-ordination with respective terminals so that cargo operations are in no way affected.
5. For issuance of Delivery Order to the authorized party within two working days.
6. For enclosing an undertaking from the party that total quantity of sludge oil received from all sources will not exceed the prescribed limit permitted by MOEF for recycling.
7. For ensuring that party pays the wharfage charges.
8. For completing all Customs formalities and payment of customs duty.
9. For submission of a copy of Reception Certificate signed by the Master/Chief Engineer and the Importer immediately after completion of discharge, at the MC&PC's office.
10. For submission of copies of IGM, Bill of Entry & Delivery Order within two working days at the Bulk Terminal Office.
11. For following up with the party for removal of discharged oil from the port area within 3 working days from the day of discharge.
12. For reception of sludge oil only after 0600 hrs and before 1800 hrs.
13. For complying with any regulations/rules coming into force from any statutory body.

Yours faithfully

Signature :

Name :

Designation :

Encl :

- 1) Master's requisition - must give following details :
  - i) Maximum dedicated sludge storage capacity..... (m<sup>3</sup>)
  - ii) Amount of waste on board at the time of request..... (m<sup>3</sup>)
  - iii) Amount of waste to be discharged at JNPT..... (m<sup>3</sup>)
  - iv) Estimated amount of waste to be generated, before next Port of call..... (m<sup>3</sup>)
  - v) Port, where remaining waste will be discharged..... (m<sup>3</sup>)
- 2) Undertaking from authorized party w.r.t. Point No.6 above.

**LIST OF APPROVED CONTRACTORS****1. SLUDGE OIL RECEPTION FACILITIES REGISTERED PARTIES AS ON 25/07/2008**

Sr No.	Name of the party	Validity
1	M/s Meher Petro Chem. Pvt. Ltd. 203/5, Gr.Flr., Tarovoti Bhavan, P D'Mello Road, Opp. St. George Hospital, Fort, Mumbai-400001 Tel. Fax.22659685, 9324803100,9322400245 e.mail <a href="mailto:meherpetrochem@vsnl.net">meherpetrochem@vsnl.net</a>	13 <sup>th</sup> December 2010
2	M/s Sai Om Petro Specialities Ltd. SubhasNagar,Village Road, Opp. Kilburn Engg. Ltd., Bhandup(W) 400078 Tel- 25666687,4238 / 9324788930 Fax-25669908 e-mail <a href="mailto:sopsl@vsnl.net">sopsl@vsnl.net</a>	15 <sup>th</sup> November 2010
3	M/s Daya Lubricants Pvt. Ltd. 202-203, Sai Commercial Centre,504,Linking Road, Khar, Tel. 6481564/6483046 , 9820242865Fax.6483815 e-mail <a href="mailto:shaktee.oil@axcess.net.in">shaktee.oil@axcess.net.in</a>	21 <sup>th</sup> December 2010
4	M/s.Taxoil Lubricants Pvt. Ltd. 2-25/27, Piru Lane, Matiwala Building.Nr. J.J.Hospital, Mumbai-400009 9870437449/9819000569	22 <sup>nd</sup> October 2010
5	M/s Gulmohar Hydrocarbon Pvt. Ltd. 311,Ratnamani Complex,7/1, New palasia, Indore-452001 <a href="tel:731-325794209819876533">Tel. 731-3257942,09819876533</a>	31 <sup>st</sup> August 2010
6	North East Lubrica Pvt. Ltd., Survey No. 404, Abitghar Village, Tal. Wada, <a href="tel:9833672467">Dist. Thane – 421303.</a> <a href="tel:9833672467">9833672467</a>	24 <sup>th</sup> November 2010
7	M/s Industrial Esters & Chemicals Pvt. Ltd., 202,Madhav Apartment, Jawahar Road, Ghatkopar(E) Mumbai-400077. <a href="tel:9821331888932455556">9821331888/932455556</a>	16 <sup>th</sup> October 2010
8	M/s. Shree Pooshp- Hans Chemicals 403/404, Dev Krupa Premises, Co-op. Hsg. Society Ltd., 4 <sup>th</sup> Floor, 28, Raichur street, Dana Bunder, Mumbai-400009	8 <sup>th</sup> October 2010

**Garbage Reception Facility as per Regulation 7 (1) Reception facilities , Annex V of MARPOL 73/78**

Name of the party	Remarks
M/s Avdhut Majoor Sahakari Sanstha Ltd. At Dhutam, Post. Jasai, Tal. Uran, Dist. Raigad.	Valid till 03 <sup>rd</sup> April 2011

## LIST OF INTERNATIONAL & LOCAL LEGISLATION

1. MARPOL 73/78 – Consolidated Edition 2002
2. MARPOL 73/78 – Consolidated Edition 1997.
3. Indian Ports Act 1908 (Act No. 15 of 1908)
4. The Merchant Shipping Act 1958 (Act No. 44 of 1958) (2000)
5. The Environment (Protection) Act, 1986 & The Environment (Protection) Rules 1986 with Hazardous Wastes (Management & Handling) Rules 1989 a latest case laws.
6. Annex VI of MARPOL 73/78 – Regulation for the Protection of Air Pollution from ships & MOX Technical code.
7. Provision concerning the Reporting of incidents involving harmful substances, under MARPOL 73/78 (1999 Edition)
8. SOLAS consolidated Edition 2001.
9. The Air (Prevention and Control of Pollution) Act, 1981 (Act No. 14 of 1981) along with The Air (Prevention and control of pollution) Rules, 1982 and The Air (Prevention and Control of Pollution) (Union Territories) Rules 1983.(1999 Edition)
10. The Water (Prevention and Control of Pollution) Act, 1974 and Rules 1975. Central Board for Prevention and Control of Water Pollution (Procedure for Transaction of Business) Rules 1975 and The Water (Prevention and Control of Pollution) Less Act – 1977 and Rules 1978.
11. The Major Port Trust Act

(on Agents Letter Head)

Date.

To

The Manager (MC&PC),  
Marine Department,  
JNPT.

Sub : Requisition for collection of garbage from M.V. \_\_\_\_\_

VIA No. \_\_\_\_\_

Sir,

Kindly arrange to collect garbage from the following vessel :

1. Name of Vessel : \_\_\_\_\_
2. Berth : \_\_\_\_\_
3. Date : \_\_\_\_\_
4. Agency Code : \_\_\_\_\_

(Tick mark whichever is applicable below)

1. The charges of Rs. \_\_\_\_\_ has been paid vide receipt No. \_\_\_\_\_  
dated \_\_\_\_\_.

(OR)

2. The applicable charges may be debited from our RVD account.

Thanking you,

Yours faithfully,

(Agent's Signature and stamp)

