HARYANA STATE POLLUTION CONTROL BOARD C-11, SECTOR-6, PANCHKULA Ph-0172-577870-73, Fax No. 2581201 E-mail – hspcbhazardouswaste@gmail.com

Office Order

Whereas, the Hon'ble National Green Tribunal (NGT) issued directions in several cases to impose the Environmental Compensation for violation of Hazardous & Other Wastes (Management & Tranboundary Movement) Rules, 2016 on non-complying polluting units and has been directing CPCB, all PCBs, including Haryana, to implement "Polluter Pays" principle in right spirit and to recover environmental compensation from polluting units and to use the same for restoration of environmental damages caused to the public;

Whereas, as per the orders of the Hon'ble Tribunal dated 12.04.2019 in the matter of OA No. 804/2017; Rajiv Narayan & Anr. Vs. Union of India & Ors. various recommendations of the Monitoring Committee are to be complied with and one of the recommendation is as below:-

"4. [4(5)] There is need to have an enforcement framework for effective enforcement of Rules based on principle of proportionality and also, precautionary principle. Such framework will remove ambiguity in regulatory actions and bring transparency, predictability and consistency in enforcement for actions."

Whereas, the Hon'ble NGT in the matter of OA No. 804/2017; Rajiv Narayan & Anr. Vs. Union of India & Ors. has directed the Central Pollution Control Board to determine the scale of compensation to be recovered for violation of the Rules within one month and the CPCB on 11.05.2019 has filed a report regarding determination of environmental compensation to be recovered for violation of Hazardous & Other Wastes (Management & Trans-boundary Movement) Rules, 2016 in compliance of Hon'ble NGT order dated 12.04.2019 and the Hon'ble Tribunal vide order dated 26.08.2019 stated that the recommendations of the CPCB with regard to the compensation regime on the subject may be adopted, subject to further consideration of orders.

Whereas, the Central Pollution Control Board vide it's letter dated 18.07.2019 has forwarded "Enforcement Framework for Effective implementation of Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016".

Whereas, the Technical Advisory Committee (TAC) of the Board, in its meeting held on 23.06.2020, has recommended to adopt methodology/modalities issued by the CPCB for determination of environmental compensation to be recovered for violation of Hazardous & Other Wastes (Management& Trans-boundary Movement) Rules, 2016 and the necessary approval for implementation of the above said methodology/modalities may also be taken from the Board/Government.

Whereas, the said methodology/modalities issued by the CPCB for determination of environmental compensation to be recovered for violation of Hazardous & Other Wastes (Management& Tranboundary

Movement) Rules, 2016 was placed before the Board in its 192nd meeting vide agenda item no. 192.8 (S) for consideration and approval and the same has been approved by the Board.

In view of above, it is hereby ordered to adopt the said methodology/modalities issued by the CPCB for determination of environmental compensation to be recovered for violation of Hazardous & Other Wastes (Management Trans-boundary Movement) Rules, 2016.

These orders shall come into force with immediate effect

Dated Panchkula, the 07/09/2022 HSPCB

Chairman,

Endst. No. HSPCB/HWM/2022 07/09/2022

Dated:

A copy of the above is forwarded to the following for information and necessary action:-

- 1. The Additional Chief Secretary to Govt. of Haryana, Department of Environment & Climate Change, Chandigarh.
- 2. The Director General, Department of Environment & Climate Change, Haryana, Chandigarh
- 3. All the Branch In-charges dealing with Consent Management in Head Office of the Board.
- 4. All the Regional Officers in field.
- 5. Nodal Officer (IT) for uploading the orders on the website of the Board.
- 6. P.S. to the Chairman, HSPCB.
- 7. P.A to the Member Secretary, HSPCB.

Signed by Naveen Gulia Date: 08-09-2022 10:28:10

Reason: Approved

Sr. Environmental Engineer (HQ) For Chairman, HSPCB



SPEED POST

Attachment: Guidelines CPCB.pdf

केन्द्रीय प्रदूषण नियंत्रण बोर्ड CENTRAL POLLUTION CONTROL BOARD

(पर्यावरण एवं वन मंत्रालय, भारत सरकार)

(MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

F.No. B-29016/C-08 /2019/WM-II Div./ WOCS

July 18, 2019

The Member Secretary Haryana Pollution Control Board C-11, Sector-6 Panchkula Haryana-134 109 Chandigarh

Enforcement framework for effective enforcement of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016- in compliance with orders dated 12/04/2019 of the Hon'ble NGT in the matter of O.A. No. 804/2017 with M.A. No. 1302/2018 in Interlocutory Application No. 63 in W.P. (C) No. 657/1995

Sir.

This has reference to the orders dated 12/04/2019 of the Hon'ble National Green Tribunal, Principal Bench, New Delhi, in the matter of O.A No 804/2017: Rajiv Narayan & Anr. Vs Union of India &Ors wherein various recommendations of the Monitoring Committee need to complied with and where one of the recommendation is as below:

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"There is need to have an enforcement framework for effective enforcement of Rules based on principle of proportionality and also, precautionary principle. Such framework will remove ambiguity in regularity actions and bring transparency, predictability and consistency in enforcement for actions."

and initiali actions .

In compliance of aforesaid order, CPCB has prepared "Enforcement Framework for Effective Implementation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016" to be followed in CPCB. The framework includes Background; Salient features of the Rules, Various enforcement tools, Tracking/Monitoring of non-compliances. Categorisation of violations, approach for application of enforcement tool as well as Financial penalty & environmental compensation calculation methodology. Copy of the said framework is available at CPCB website i.e https://cpcb.nic.in/uploads/hwmd/Guidelines_HW_1.pdf which may be helpful in preparing the required enforcement framework for your Haryana Pollution Control Yours faithfully, Board.

(Abhey Singh Soni)

Additional Director & Head Waste Management-II Division

'परिवेश भवन' पूर्वी अर्जुन नगर, दिल्ली-110032

'Parivesh Bhawan', East Arjun Nagar, Delhi - 110032

दूरभाष / Tel. : 43102030, फेक्स / Fax : 22305793, 22307078, 22307079, 22301932, 22304948 ई-मेल/e-mail :cpcb@nic.in वेबसाईट/Website : www.cpcb.nic.in

Enforcement Framework for Effective Implementation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

July 2019



Central Pollution Control Board

(Ministry of Environment, Forest & Climate Change, Government of India)

Parivesh Bhawan, East Arjun Nagar,

Shahdara, Delhi – 110032

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Enforcement Framework for Effective Implementation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

1. Background

The Govt. of India has notified Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended thereof, (herein after called as HOWM Rules, 2016) for the safe and environmentally sound management of hazardous and other wastes. The Rules lay down provisions for storage, packaging, transportation, recycling, utilization, pre-processing, co-processing, treatment, import, export, offering for sale, transfer or disposal, etc. of the hazardous and other wastes ("hazardous waste" and "other wastes" have been defined under the said Rules).

Enforcement of the HOWM Rules, 2016, would ensure safe and environmentally sound handling and management of hazardous and other wastes. The State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) have been entrusted with duty to ensure compliance of the various provisions stipulated under the Rules through monitoring and taking of actions against defaulters as per Rule 21 of the Rules.

In order to remove ambiguity in regulatory actions as well as bring transparency, predictability and consistency in enforcement for actions, it is felt to develop an enforcement framework for effective implementation of these Rules based on principle of proportionality and precautionary principle. These guidelines have, therefore, been prepared with the said objectives.

This framework includes various enforcement tools, tracking of Non-compliances, categorization of non-compliances and approach for application of the said enforcement tools in cases of non-compliances of the HOWM Rules, 2016.

2. Salient Features of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 Pertaining to Occupiers

Occupier of any factory or premises as defined under Rule 3(1)(21) of the Rules, means a person who has, control over the affairs of the factory or the premises and includes in relation to any hazardous and other wastes, the person in possession of the hazardous or other waste." It is responsibility of the occupier for safe and environmentally sound management of hazardous and other wastes as stipulated under Rule 4 of the HOWM Rules, 2016.

The occupier is required to obtain authorisation from the concerned SPCB/PCC for handling, generation, collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilisation, offering for sale, transfer or disposal of the hazardous and other wastes and shall carry out the same as per the authorisation granted and provisions stipulated under the HOWM Rules, 2016. The occupier is also required to maintain records and manifests and submit annual returns as stipulated under the Rules. The Rules also lays down provisions for import and export hazardous and other wastes for the purpose of recycling/recovery/reuse/utilisation.

Enforcement Framework for Effective Implementation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

3. Enforcement tools

(a) Issuance of directions for closure or stoppage of electricity or water supply or any other services

HOWM Rules, 2016, have been notified under the Environment (Protection) Act, 1986, and section 5 of the Act empowers Central Government to issue directions to any person, officer or any authority for closure, prohibition or regulation of any industry, operation or process; or stoppage or regulation of the supply of electricity or water or any other service and such person, officer or authority shall be bound to comply with such directions.

The Central Government in exercise of powers conferred under section 23 of the Environment (Protection) Act, 1986, has delegated the above powers under section 5 of the said Act to the Chairmen of SPCBs/PCCs and CPCB, vide various notifications by. Copies of such notifications of delegation of powers to Chairman of SPCBs/PCCs is given at **Annexure I** for ready reference. Therefore, SPCBs/PCCs and CPCB too have the powers conferred under the aforesaid section 5 of the Act.

Procedures of issuing the aforesaid directions under section 5 of the Environment (Protection) Act, 1986, including opportunity or no opportunity of being heard, have been laid down under Rule 4 of the Environment (Protection) Rules, 1986, notified by the Central Government under the Environment (Protection) Act, 1986.

(b) Imposition of liability for damages caused to the environment or third party including financial penalty for violation of provisions under HOWM Rules, 2016

The HOWM Rules, 2016, lays down provisions with regard to liability for damages caused to the environment or third party including financial penalty for violation of provisions of the Rules under Rule 23 of the said Rules.

CPCB has issued "Guidelines on Implementing Liabilities for Environmental Damages due to Handling & Disposal of Hazardous Waste and Penalty" for implementing the aforesaid provisions of Rule 23. The guidelines include description of liabilities, approach for valuation of the same, methodology for levying financial penalty, role of SPCB/PCC and other stakeholders etc. SPCBs/PCCs are required to follow procedures laid down under these guidelines while enforcing the aforesaid provisions of Rule 23. Copy of the said guidelines is available at CPCB website i.e https://cpcb.nic.in/uploads/hwmd/Guidelines_Environmenal_Damages_Costs_200116.pdf.

(c) Imposition of Environmental Compensation

The Hon'ble National Green Tribunal, Principal Bench, New Delhi through its various orders has directed the regulatory authorities (i.e CPCB/SPCBs/PCCs) to assess and recover the environmental compensation for the damages caused

Enforcement Framework for Effective Implementation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

to the environment apart from prohibiting the polluting activities or prosecution so as to render polluting activities to be unprofitable.

Relevant text of various orders of the Hon'ble National Green Tribunal in this regard is given at **Annexure II** for ready references.

CPCB in compliance with orders dated 12/4/2019 of the Hon'ble National Green Tribunal, Principal Bench, New Delhi, in the matter of Original Application No. 804/2017 (Earlier O.A. No. 36/2012) With M.A. No. 1302/2018 in Interlocutory Application No. 63 in W. P. (C) No. 657/199 (Rajiv Narayan & Anr Versus Union of India & Ors. With The Research Foundation for Science, Technology and Natural Resource Policy Versus Union of India & Ors.), has prepared and submitted document on "Determination of Environmental Compensation to be recovered for violation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016". Copy of the same is available at https://cpcb.nic.in/NGTMC/HW/Deter-EnvComp-Recovered-Vio-HOWMRules-2016.pdf

(d) Prosecution for imprisonment with fine

Section 15 of the Environment (Protection) Act, 1986, lays provisions of punishment with imprisonment including fine in case of failure to comply with or contravenes any of the provisions of the Act, or the rules made or orders or directions issued thereunder.

Section 19 of the Environment (Protection) Act, 1986, stipulates about cognizance of the offence to be taken by the Hon'ble Court on complaint made by Central Government or any authority or officer authorised in this behalf by that Government. The said section 19 is reproduced as below:

The Central Government has authorised various authorities and officers for the purpose along with the jurisdiction vide notifications under the said Act and compiled copy of the same is given at **Annexure III**. The authorised authorities and officers require to file complaint for the said offence in the District Court.

Relevant abstract of the Environment (Protection) Act, 1986; Environment (Protection) Rules, 1986 and Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 is given at **Annexure-IV** for ready reference.

4. Monitoring/Tracking of Non-compliances

(a) Through technology interventions:

Most of the provisions stipulated under the HOWM Rules 2016 applicable to hazardous and other wastes handlers (such as quantity of wastes generation, day wise record maintenance of waste generation & its storage, wastes sent to authorised recyclers/utilizers/pre-processors/co-processors/disposal facility operators, waste movement manifest documents & their reconciliation, etc.) can be tracked with application of information technology.

A suitable software with features of entering the data by waste handlers w.r.t. day wise record maintenance, manifest document, etc. as stipulated under the

Enforcement Framework for Effective Implementation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

HOWM Rules 2016, may be developed which can easily trace non-compliances so as to enable SPCBs/PCCs in identifying/tracking and acting upon the same. Further, camera at the facility and GPS based movement of hazardous or other wastes linked to the said software may also be very helpful in identifying violations.

Central Pollution Control Board is in process of developing such software. However, till such software is developed, SPCBs/PCCs may develop their own system with suitable information technology based application for identifying non-compliances and enforcing provisions stipulated under the regulations.

(b) Through Filed Investigation

Inspection of hazardous and other waste handling units is important tool to verify if such units are practicing environmentally safe waste management practices, complying with various conditions laid down under the authorization granted by SPCBs/PCCs and the HOWM Rules 2016, etc. Verification of various documents like manifest documents, annual returns, etc. submitted by the units shall also be taken into account while enforcing HOWM Rules. Following may be adopted for monitoring the compliances of HOWM Rules, 2016, in case of hazardous and other waste handling units:

(i) Periodic inspections

The hazardous and other waste generating units shall be inspected periodically and actions shall immediately be taken for violations, if any.

Selection of hazardous and other waste handling units for the aforesaid inspection may be carried out with the help of technology for fair selection. In this regard, a simple software may be developed featuring list of all the waste generators.

(ii) Frequent monitoring of units engaged in waste collection/ recycling/ utilization/ pre-processing/ co-processing/ disposal and import of wastes

Units engaged in recycling/utilization/pre-processing/ coprocessing/disposal, are involved in handling of wide range of wastes from different industries and therefore needs to be closely monitored through frequent inspection of such units.

Such waste collection/recycling/utilization/pre-processing/ co-processing/ and importer of hazardous and other wastes may require inspection/ monitoring by SPCBs/PCCs preferably once in 03 months, whereas, common TSDFs may be inspected once in a month.

(iii) Random verification in case of interstate movement of hazardous and other wastes

Hazardous and other wastes are often transported to other State/UT for recycling/ utilization/ pre-processing/ co-processing/disposal. Random verification of waste reaching to such facilities in other State/UT shall be

Enforcement Framework for Effective Implementation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

carried out by both the SPCBs/PCCs (sender and receiver State/UT). Further, SPCB/PCC (of receiving waste) shall also check accounting of wastes received by such facilities and also ensure they do not exceed their authorised waste handling capacity.

(iv) Investigation of Complaints

Any complaint related to hazardous and other waste shall be examined properly and depending upon nature of complaint a thorough investigation shall be done so as to identify non-compliances, if any.

(v) Sampling & Monitoring in case of accidental or illegal discharge/disposal or fire of hazardous and other wastes for fixing liability and financial penalty

Accidental or illegal discharge/disposal or fire of hazardous and other wastes may often lead to air/water (surface or ground water)/soil contamination. In such incidences, proper sampling & analysis are required to be carried out by SPCBs/PCCs, as outlined in the aforesaid "Guidelines for Implementing Liabilities for Environmental Damages due to Handling & Disposal of Hazardous Waste and Penalty" published by CPCB, which would be helpful in imposing appropriate liability and financial penalty, as applicable.

5. Categorization of Violations

For the purpose of imposing financial penalty and environmental compensation, various violations of HOWM Rules, 2016, can be broadly classified into the following two categories:

A. Category A: Only procedural violations of HOWM Rules, 2016, which has not caused damage to environment or third party

Certain violations of HOWM Rules, 2016, are procedural violations in nature and do not cause any damage to environmental or third party.

For instance, non-submission of annual return within the stipulated time period to SPCB/PCC (as required under Rule 20(2) of the Rules), non-maintenance of records (as required under Rule 20 (1) of the Rules) no prior intimation to SPCB of the States of transit in case of inter-state movement (as required under Rule 18(5) of the Rules, 2016), etc. by the authorised occupier. In such cases, though there have been violations of provisions of the Rules which are procedural requirements in nature but has not caused damaged to the environment. However, financial penalty would be applicable in such cases for violations of each and every relevant provision of the HOWM Rules, 2016, as outlined under section 7 of this document.

B. <u>Category B</u>: Violations causing environmental damage including procedural violations

Enforcement Framework for Effective Implementation of Hazardous and Other
Wastes (Management and Transboundary Movement) Rules, 2016

These are violations of the HOWM Rules, 2016, causing environmental damages including procedural violations of the Rules. The same may further be classified into two categories as below:

(i) Category B1: Cases where mismanagement of hazardous or other waste has resulted or resulting into environmental damage and such damages liability including assessment of remediation required can be assessed in terms of cost also by applying provisions laid down under CPCB's "Guidelines on Implementing Liabilities for Environmental Damages due to Handling & Disposal of Hazardous Waste and Penalty".

For example, disposal of hazardous or other waste on land or surface/ground water by an occupier, operator, transporter, importer, exporter, etc. as the case may be, has been identified by SPCB/PCC and damages to the environment and remediation work as well as cost thereof can also be assessed by SPCB/PCC in accordance with the said guidelines.

In such cases, liability of the responsible party (occupier, operator, transporter, importer, exporter, etc., as the case may be) can be fixed in terms of various required activities and amount of money required in such activities (i.e. taking up immediate Emergency Response Plan Measures such as containment of hazardous or other waste; assessment of contamination and required remediation work, and; execution of selected remediation plan) in accordance with provisions laid down under the said CPCB's "Guidelines on Implementing Liabilities for Environmental Damages due to Handling & Disposal of Hazardous Waste and Penalty¹". The responsible party (occupier, operator, transporter, importer, exporter, etc., as the case may be) is required to pay bank guarantee to SPCB/PCC and compensation liability (loss of property, loss of crop, loss of life, treatment cost towards human health impacts, etc.) as suggested in the guidelines.

Besides above liability, financial penalty would also be imposed as given under section 7 of this document.

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¹ https://cpcb.nic.in/uploads/hwmd/Guidelines Environmenal Damages Costs 200116.pdf

Enforcement Framework for Effective Implementation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

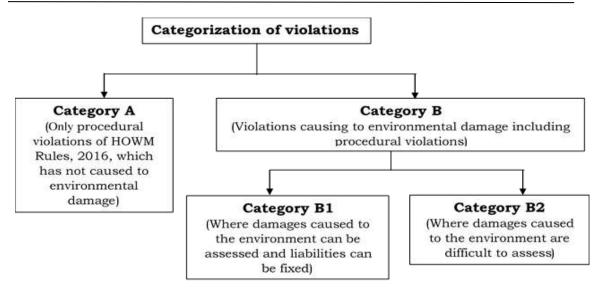


Figure 1: Categorization of violations

(ii) **Category B2**: Cases where mismanagement of hazardous or other waste may have caused environmental damage and such damages & remediation required including cost thereof are difficult to assess.

For example, an authorised occupier, operator, transporter, importer, exporter, etc., as the case may be, of hazardous or other wastes has illegally disposed hazardous or other waste on place which is unidentifiable or even if identified, damages to the environment and remediation work as well as cost thereof is difficult to be assessed by SPCB/PCC. Such difficulty may arise due to very small quantity of wastes involved in such acts, wastes disposed along with municipal solid waste, wastes may have been washed off with runoff water, etc. In such cases, it may be difficult to assess damages caused to the environment and liability of the responsible party (occupier, operator, transporter, importer, exporter, etc., as the case may be) as well as cost thereof.

Under such circumstances, methodology for imposing financial penalty and environmental compensation may be followed as outlined in section 7 of this document.

6. Approach for Application of Enforcement Tools

Approach for application of enforcement tool among the available tools (as outlined in section 3 of this document) may be linked to nature of violations. Accordingly, the following approach for application of enforcement tools may be used:

Enforcement Framework for Effective Implementation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

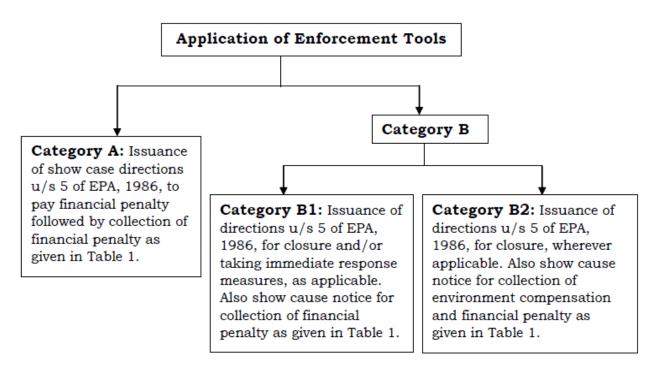


Figure 2: Approach for application of enforcement tools in brief

Detailed approach for application of various enforcement tools (as given in section 3 of this document) vis-à-vis category of violations has been given in Table 1 below:

Table 1: Category of violations and Enforcement Tools

S1. No.	Category of Violations	Enforcement Tools
1.	Category A (as described in section 5	Directions to show-cause u/s 5 of
1.	of this document)- Only procedural	the EPA, 1986, about why financial
	violations of HOWM Rules, 2016,	penalty be not levied outlining
	which has not caused to	various procedural violations
	environmental damage or third party.	observed by SPCB/PCC/CPCB.
	This shall be followed by direction	
		to pay financial penalty on each of
		such violations after considering
		objections, if any, in response of
		such notice. The penalty amount be
		derived as outlined in the
	guidelines ² prepared by CPCB	
		this regard.
		In case of non-submission of
	In case of non-submission of	
		financial penalty within stipulated

² "Guidelines on Implementing Liabilities for Environmental Damages due to Handling & Disposal of Hazardous Waste and Penalty" which has been circulated to all SPCBs/PCCs and copy is also available at CPCB website https://cpcb.nic.in/uploads/hwmd/Guidelines Environmenal Damages Costs 200116.pdf

Attachment: Guidelines CPCB.pdf Enforcement Framework for Effective Implementation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

time period, deterrent amount to be imposed and action be initiated as per the CPCB document ³ . 2. Category B (as described in section 5 of this document) - Nazardous or other waste has resulted or resulting into environmental damage and such including procedural violations or equired can be assessed. 2. Category B (as described in section 5 of this document) - Nazardous or other waste has resulted or resulting into environmental damage and such including procedural violations or required can be assessed. 2. Category B (as described in meson waste as where the environmental damage including assessment of remediation required can be assessed. 3. Category B (as described in the case where mismanagement of the EPA, 1986, without any opportunity of being heard to: (i) take up immediate Emergency Response Plan Measures such as containment of hazardous or other waste, assess damages and execute remediation plan along with submission of bank guarantee, as outlined in CPCB guidelines ¹ , as the case may be, and; (ii) close industrial or other activities. 3. Besides above, collection and imposition of financial penalty for violation of various provisions of the HOWM Rules, 2016, as outlined above for Category A violation shall be followed including imposition of deterrent amount in case of nontimely submission of financial penalty. 3. In case unit fails to comply with the directions, the unit shall be closed and cases be filed u/s 15 of the EPA, 1986, wherever applicable. 4. Category B2: 4. Category B2: 5. Category B2: 6. Category B2: 6. Category B2: 6. Category B2: 8. Category B2: 9. Category B2: 1. Category B3: 1. Category B1: 1. C	S1.	Category of Violations Enforcement Tools		
described in section 5 of this document) Violations vaste has resulted or resulting into environmental damage including procedural violations or resulting into environmental damage and such including procedural violations or required can be assessed. Cases where mismanagement of remediation required can be assessed. Cases where mismanagement of receiving the EPA, 1986, without any opportunity of being heard to: (i) take up immediate Emergency Response Plan Measures such as containment of hazardous or other waste, assess damages and execute remediation plan along with submission of bank guarantee, as outlined in CPCB guidelines¹, as the case may be, and; (ii) close industrial or other activities, in cases where there is likelihood of a grave injury to the environment due to continued industrial or other activities of financial penalty for violation of various provisions of the HOWM Rules, 2016, as outlined above for Category A violation shall be followed including imposition of deterrent amount in case of nontimely submission of financial penalty. In case unit fails to comply with the directions, the unit shall be closed and cases be filed u/s 15 of the EPA, 1986, wherever applicable. Category B2: Category B3: In cases where there is likelihood of a grave injury to the environment due to continued industrial or other				time period, deterrent amount to be imposed and action be initiated as per the CPCB document ³ .
Cases where a grave injury to the environment mismanagement of due to continued industrial or other		described in section 5 of this document) - Violations causing to environmental damage including procedural	Cases where mismanagement of hazardous or other waste has resulted or resulting into environmental damage and such damages including assessment of remediation required can be assessed.	the EPA, 1986, without any opportunity of being heard to: (i) take up immediate Emergency Response Plan Measures such as containment of hazardous or other waste, assess damages and execute remediation plan along with submission of bank guarantee, as outlined in CPCB guidelines ¹ , as the case may be, and; (ii) close industrial or other activities, in cases where there is likelihood of a grave injury to the environment due to continued industrial or other activities. Besides above, collection and imposition of financial penalty for violation of various provisions of the HOWM Rules, 2016, as outlined above for Category A violation shall be followed including imposition of deterrent amount in case of nontimely submission of financial penalty. In case unit fails to comply with the directions, the unit shall be closed and cases be filed u/s 15 of the EPA, 1986, wherever applicable.
mismanagement of due to continued industrial or other			3 3	
nazardous or other activities, the unit may be directed			hazardous or other	activities, the unit may be directed

³ "Determination of Environmental Compensation to be recovered for violation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016", and copy of the same is available at https://cpcb.nic.in/NGTMC/HW/Deter-EnvComp-Recovered-Vio-HOWMRules-2016.pdf

Attachment: Guidelines CPCB.pdf Enforcement Framework for Effective Implementation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

S1. No.	Category of Violations	Enforcement Tools
	waste may have caused or causing environmental damage and such damages & remediation required is difficult to assess	u/s 5 of the EPA, 1986, to close such industrial or other activities without any opportunity of being heard. For imposing and collecting financial penalty for violation of various provisions of the HOWM Rules, 2016, similar procedure as outlined above for Category A violation shall be followed. In addition to the above financial penalty, Environment Compensation (EC) towards the damages caused to the environment shall also be imposed as per the CPCB document ³ including deterrent amount for non-timely submission of the EC as per the said document. In case unit fails to comply with the directions, the unit shall be closed.
3.	Repeated Violations despite imposing liability/environmental compensation and financial penalty or directions or both	Authorisation of the habitual and repeated violators of Category A be cancelled and the unit be closed u/s 5 of the EPA. Whereas in addition to the said actions, case be filed u/s 15 of the EPA, 1986, in case of habitual and repeated Category B violators. Further, the deterrent amount of EC and financial penalty be imposed in case of such repeated violators as per the CPCB document ³

³ "Determination of Environmental Compensation to be recovered for violation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016", and copy of the same is available at https://cpcb.nic.in/NGTMC/HW/Deter-EnvComp-Recovered-Vio-HOWMRules-2016.pdf

³ "Determination of Environmental Compensation to be recovered for violation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016", and copy of the same is available at https://cpcb.nic.in/NGTMC/HW/Deter-EnvComp-Recovered-Vio-HOWMRules-2016.pdf

Enforcement Framework for Effective Implementation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

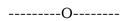
Apart from above category of violations vis-à-vis enforcement tools, following scenarios may also be considered alongwith enforcement tools to be adopted:

- The occupiers not displaying relevant information about hazardous waste outside their factory gate (as directed by the Hon'ble Supreme Court vide orders dated 14/10/2003 in the matter of WP NO. 657/1995; Research Foundation for Science Technology and National Resource Policy Versus Union of India & Anr) Issue show cause or be close down under section 5 of the Environment (Protection) Act, 1986,
- ➤ The occupier handling significant quantity of hazardous waste and has not applied for authorization for such wastes- Issue closure directions along with environmental compensation for damages caused to the environment. In case such unit does not close its unit or does not deposit the environmental compensation, as directed, proceedings under section 15 of the Environment (Protection) Act, 1986, be initiated.

7. Assessment of Financial Penalty and Environmental Compensation

In compliance with orders dared 12/4/2019 of the Hon'ble National Green Tribunal, Principal Bench, New Delhi, in the matter of Original Application No. 804/2017 (Earlier O.A. No. 36/2012) With M.A. No. 1302/2018 in Interlocutory Application No. 63 in W. P. (C) No. 657/199 (Rajiv Narayan & Anr Versus Union of India & Ors. With The Research Foundation for Science, Technology And Natural Resource Policy Versus Union of India & Ors.), CPCB has prepared and submitted document on "Determination of Environmental Compensation to be recovered for violation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016", Copy of the same is available at https://cpcb.nic.in/NGTMC/HW/Deter-EnvComp-Recovered-Vio-HOWMRules-2016.pdf

For calculating environmental compensation pertaining to Category B2 violations (as described in section 5 of this document), methodology as outlined in aforesaid CPCB document shall be followed. Further, the financial penalty as outlined in the aforesaid document may be followed including the imposition of deterrent amount for non-timely submission of Environmental Compensation and Financial Penalty.



ANNEXURE-I

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Notifications under the Environment (Protection) Act, 1986

DELEGATION OF POWERS TO THE STATE POLLUTION CONTROL BOARDS/POLLUTION CONTROL COMMITTEES

MINISTRY OF ENVIRONMENT AND FORESTS

NOTIFICATION

New Delhi, the 8th January, 1997

S.O. 23(E).- In exercise of the powers conferred by Section 23 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby delegates the powers vested in it under Section 5 of the said Act to the Chairman, State Pollution Control Boards/Committees as given in the Table below, to issue directions to any industry or any local or other authority for the violations of the standards and rules relating to hazardous wastes notified under the Environment (Protection) Act, 1986, subject to the conditions that the Central Government may revoke such delegation of powers or may itself invoke the provisions of Section 5 of the said Act, if in the opinion of the Central Government such a course of action is necessary in the public interest:-

TABLE

Sl. No.	Name of Board/Committee	Jurisdiction
1	2	3
1.	Andhra Pradesh State Pollution Control Board	Whole of State
2.	Arunanchal Pradesh State Pollution Control Board	Whole of State
3.	Assam State Pollution Control Board	Whole of State
4.	Bihar State Pollution Control Board	Whole of State
5.	Goa State Pollution Control Board	Whole of State
6.	Gujarat State Pollution Control Board	Whole of State
7.	Haryana State Pollution Control Board	Whole of State
8.	Himachal Pradesh State Pollution Control Board	Whole of State
9.	Jammu & Kashmir State Pollution Control Board	Whole of State
10.	Karnataka State Pollution Control Board	Whole of State
11.	Kerala State Pollution Control Board	Whole of State
12.	Maharashtra State Pollution Control Board	Whole of State

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Notifications under the Environment (Protection) Act, 1986

13.	Madhya Pradesh State Pollution Control Board	Whole of State
14.	Manipur State Pollution Control Board	
15.	Meghalaya State Pollution Control Board	Whole of State
16.	Mizoram State Pollution Control Board	Whole of State
17.		Whole of State
18.	Nagaland State Pollution Control Board	Whole of State
WESTER	Orissa State Pollution Control Board	Whole of State
19.	Punjab State Pollution Control Board	Whole of State
20.	Rajasthan State Pollution Control Board	Whole of State
21.	Sikkim State Pollution Control Board	Whole of State
22.	Tamil Nadu State Pollution Control Board	Whole of State
23.	Tripura State Pollution Control Board	Whole of State
24.	Uttar Pradesh State Pollution Control Board	Whole of State
25.	West Bengal State Pollution Control Board	Whole of State
26.	Committee, Andaman & Nicobar Union Territory	Whole of U.T.
27.	Committee, Chandigarh Union Territory	Whole of U.T.
28.	Committee, Dadra & Nagar Haveli Union Territory	Whole of U.T.
29.	Committee, Daman & Diu Union Territory	Whole of U.T.
	Committee, National Capital Territory of Delhi	Whole of N.C.T.
	Committee, Lakshadweep Union Territory	Whole of U.T.
-	Committee, Pondicherry Union Territory	Whole of U.T.

[No.1(35)/96-PL] VIJAY SHARMA, Jt. Secy. रजिस्ट्री सं॰ डी॰ एल॰-33004/99

REGD. NO. D. L.-33004/99

MRA an USIUSI The Gazette of India

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii) PART II—Section 3—Sub-section (ii) प्राधिकार से प्रकाशित PUBLISHED BY AUTHORITY

सं. 944] No. 944] नई दिल्ली, बुधवार , नवम्बर 3, 2004/कार्तिक 12, 1926 NEW DELHI, WEDNESDAY, NOVEMBER 3, 2004/KARTIKA 12, 1926

पर्यावरण और वन मंत्रालय

अधिसूचना

नई दिल्ली, 2 नवम्बर, 2004

का.आ. 1211(अ).—केन्द्रीय सरकार, पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 23 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, उक्त अधिनियम की धारा 5 के अधीन उसमें निहित शक्तियों को पर्यावरण (संरक्षण) अधिनियम, 1986 के अधीन अधिमृचित परिसंकटमय अपिशिष्टि से संबंधित मानकों और नियमों के अतिक्रसण के लिए किसी उद्योग या किसी स्थानीय या अन्य प्राधिकरण को निदेश जारी करने की शिक्त, इन शर्तों के अधीन रहते हुए नीचे सारणी में दिए गए अनुसार अध्यक्ष, ग्रज्य प्रदूषण नियंत्रण बोर्डों को, प्रत्यायोजित करती है कि यदि केन्द्रीय सरकार की यह राय है कि इस प्रकार की कार्यवाही करना लोकहित में आवश्यक है, केन्द्रीय सरकार शिक्तियों के ऐसे प्रत्यायोजन को प्रतिसंहत कर सकेगी या वह स्वयं उक्त अधिनियम की धारा 5 के उपबंधों का अवलंब ले सकेगी:—

सारणी

क्रम सं.	बोर्डों के नाम	अधिकारिता
1	2	3
1.	छत्तीसगढ् पर्यावरण संरक्षण बोर्ड	सम्पूर्ण राज्य
2.	झारखंड प्रदूषण नियंत्रण बोर्ड	सम्पूर्ण राज्य
3.	उत्तरांचल पर्यावरण संरक्षण और प्रदूषण	सम्पूर्ण राज्य
	नियंत्रण बोर्ड	

[सं. 1(35)/96-पी.एल.] सुधीर मित्तल, संयुक्त सचिव

MINISTRY OF ENVIRONMENT AND FORESTS NOTIFICATION

New Delhi, the 2nd November, 2004.

S.O. 1211(E).—In exercise of the powers conferred by Section 23 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby delegates the powers vested in it under Section 5 of the said Act to the Chairman, 3289 GU2004 (1)

THE GAZETTE OF INDIA: EXTRAORDINARY [Part II—Sec. 3(ii)]

State Pollution Control Boards, as given in the Table below, to issue directions to any industry or any local or other authorities for the violations of the standards and rules relating to hazardous wastes notified under the Environment (Protection) Act, 1986, subject to the conditions that the Central Government may revoke such delegation of powers or may itself-invoke the provisions of Section 5 of the said Act, if in the opinion of the Central Government, such a course of action is necessary in the public interest:—

TABLE	<u>, i - 4, - , i - , i - , j</u>	
S.No. Name of the Boards	Jurisdiction	
1 2	3	
Chhattisgarh Environment Conservation Board	Whole of State	34 1
2. Jharkhand Pollution Control Board	Whole of State	
3. Uttaranchal Environment Protection and Pollution	Whole of State	
Control Board	<u> </u>	

[No. 1(35)/96-PL] SUDHIR MITAL, Jt. Secy.

Printed by the Manager, Govt. of India Press, Ring Road, Mayapuri, New Delhi-110064 and Published by the Controller of Publications, Delhi-110054.

Annexure II

Various orders of the Hon'ble National Green Tribunal to the regulatory authorities (i.e CPCB/SPCBs/PCCs) to assess and recover the environmental compensation for the damages caused to the environment

- (i) In the matter of OA No. 95/2018 (M.A. Vo. 1029/2018): Aryavart Foundation Vs. M/s Vapi Green Enviro Ltd. & Ors, vide orders dated 11/01/2019 has passed the following orders:
 - "... (25) This was considered in the recent order of the Tribunal (by four Member Bench) in Paryavaran Suraksha Samiti and Anr. Vs. Union of India & Ors.⁴, Parveen Kakar & Ors. Vs. Ministry of Environment & Forests & Ors.⁵ and in News Item published in "The Asian Age" Authored by Sanjay Kaw titled "CPCB to rank industrial units on pollution levels" wherein this Tribunal held that:
 - "11. Needless to say that it will be open to the SPCBs/Committees and CPCB to take coercive measures including recovery of compensation for the damage to the environment on 'Polluter Pays' principle as well as also to direct taking of such precautionary measures as may be necessary on the basis of 'Precautionary principle'.""
- (ii) In the matter of OA No. 593/2017 (WP (Civil) No. 375/2012): Parayavaran Suraksha Samiti & Anr. Vs. Union of India & Ors., vide orders dated 03/08/2018 has passed the following orders:
 - "... (vi) The Central Pollution Control Board may take penel action for failure, if any, against those accountable for setting up and maintaining STPs, CETPs and ETPs Central Pollution Control Board may also assess and recover compensation for damage to the environment and the said fund be kept in a separate account and utilized in terms of an action plan for protection of the environment. Such action plan may be prepared by the Central Pollution Control Board within three months from today..."
- (iii) In the matter of OA No. 807/2018 and OA No. 996/2018: News item published in "The Times of India" Authored by Paras Singh Titled "Ignoring NGT orders, Mayapuri 'graveyard' spews toxic fumes" and News item published in "The Times of India" Authored by Paras Singh Titled "In factory setting, Mayapuri's scraping through" vide orders dated 29/01/2019 has passed the following orders:
 - "...Thus, strong precautionary and remedial measures are required, as earlier observed by this Tribunal in some cases⁷. Heavy amounts of damages must be recovered for any illegal polluting activities found. In the present case, despite severely polluting activities, the statutory authorities are consistently failing to perform their duties of recovering damages caused to the public health and to environment and have chosen to shut their eyes in breach of trust reposed by law..."
- (iv) In the matter of OA No 739/2018: Residents of Gram Panchayat Varahiya versus State of M.P., the Hon'ble National Green Tribunal, Principal Bench, New Delhi, in its order dated 21.02.2019

⁴ O.A. No. 593/2017 Order dated 03.08.2018: The Tribunal directed CPCB to take penal action against those accountable for failure in setting up CETPs/ETPs/STPs and to recover compensation for damage to the environment.

⁵ O.A. No. 661/2018, Order dated 08.01.2019: The Tribunal stated that the Pollution Control Board had failed to perform its duties in taking statutorily mandated coercive measures under Section 31A of the Air (Prevention and Control of Pollution) Act, 1981 and 33B of the Water (Prevention and Control of Pollution) Act, 1974 or initiating prosecution. This Tribunal directed CPCB to exercise its statutory powers to determine and recover damages for violation of environmental norms by the respondent therein.

⁶ O.A. No. 1038/2018, Order dated 13.12.2018.

⁷ O.A. No. 681/2018, O.A.No. 400/2017, order dated 02.11.2018: wherein the Tribunal directed the authorities to take immediate steps to stop activities that are contributing to the pollution and prepare action plan.

has referred to the various orders of the Hon'ble Tribunal pertaining to recover compensation for the damages caused to the environment. The same is reproduced as below:

- "...7) Form the above, it is clear that inspite of fact that the stone crushers have been found to be operating illegally, no compensation has been assessed and recovered for causing damage to the environment by illegally activities. As laid down by this Tribunal repeatedly⁸, the Regulatory Authorities are not only required to prohibit illegal polluting activities but they are also required to recover compensation for the damage caused apart from prosecution or other steps so as to render polluting activities to be unprofitable. Failure to do so many call for action against the regulatory authorities themselves..."
- "...7) the Regulatory Authorities are not only required to prohibit illegal polluting activities but they are also required to recover compensation for the damage caused apart from prosecution or other steps so as to render polluting activities to be unprofitable. Failure to do so many call for action against the regulatory authorities themselves...".

⁸ Order dated 04.01.2019 in Threat to life arising out of coal mining in south garo hills district v. State of Meghalaya & Ors., OA No. 110(THC)/2012, Order dated 11.01.2019 in Aryavrat Foundation Vs M/s Vapi Green Enviro Ltd. & Ors., O.A. No. 95/2018, Order dated 16.01.2019 in Compliance of Municipal Solid Waste Management Rules, 2016, OA No. 606/2018, Order dated 24.01.2019 in Mayank Manohar & Paras Singh, Reporter Times of India v. Govt. of NCT of Delhi & Ors., OA No. 601/2018.

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Annexure-III

Notifications under the Environment (Protection) Act, 1986

309

OFFICERS AUTHORISED FOR TAKING COGNIZANCE OF OFFENCES NOTIFICATION

S.O. 394(E).-In exercise of the powers conferred under clause (a) of section 19 of the Environment (Protection)Act, 1986 (29 of 1986), the Central Government hereby authorises the officers and authorities listed in column (2) of the Table hereto for the purpose of the said section with the jurisdiction mentioned against each of them in column (3) of that Table:

TABLE

Additional Secretary to the Government of India in the Department of Environment, Forests and Wildlife, 2. The Chairman or Member-Secretary of the Central Pollution Control Board constituted under section 3 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974). 3 The Government of the State (represented by the Secretary to the State Government incharge) of environment. 4 The Chairman or Member-Secretary of the	(3) Whole of India Whole of India
 Any Director, Joint Secretary, Adviser or Additional Secretary to the Government of India in the Department of Environment, Forests and Wildlife, The Chairman or Member-Secretary of the Central Pollution Control Board constituted under section 3 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974). The Government of the State (represented by the Secretary to the State Government incharge) of environment. The Chairman or Member-Secretary of the 	Whole of India
Central Pollution Control Board constituted under section 3 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974). The Government of the State (represented by the Secretary to the State Government incharge) of environment. The Chairman or Member-Secretary of the	
the Secretary to the State Government incharge) of environment. 4 The Chairman or Member-Secretary of the	Whole of State
State Pollution Control Board constituted under section 4 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) or a State Pollution Control Board constituted under section 5 of the Air (Prevention and Control of Pollution) Act, 1981(14 of 1981).	Whole of State
5. Collector. Whole	ole of Revenue District
6. Zonal Officers of the Central Pollution Control Board who have been delegated powers under sections 20,21,23 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) and section 24 of the Air (Prevention and Control of Pollution) Act, 1981 (14 of 1981).	a as laid down by the Central Board

Notifications under the Environment (Protection) Act, 1986 310

Regional Officers of the State Pollution Control Board who have been delegated powers under section 20, 21 and 23 of the Water (Prevention and Control of Pollution) Act, 1974.

Area as laid down by the State Board

Regional Officers of the State Pollution 8. Control Board who have been delegated powers under section 24 of the Air (Prevention and Control of Pollution) Act, 1981.

Area as laid down by the State Board

Any Regional/Zonal Officers or a Director in 19. charge of a Region/Zone of the Ganga Project Directorate.

Zonal/Regional area as laid down by the Ganga Project Directorate

Any Deputy Secretary, Director, Joint Whole of the State in which 10 Secretary or Additional Secretary to the Government of India in the Ganga Project Directorate.

the Ganga Action Plan is under implementation]

2[11. Joint Secretary (:Legal) in the Department of Whole of India] Environment., Forests and Wildlife, Ministry of Environment & Forests, New Delhi -110003.

112 Chairman or Member Secretary of the Whole of Union Territory] Committee notified under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 in respect of Union Territories.

113 Seed Inspector(s) Area(s) as laid down by the respective State Govts. in Notification issued under Clause 12 of the Seeds Controller Order, 1983]

Note: Principal Notification No. S.O. 394(E), published in Gazette No. 185, dt.16.4.1987. Nos. 9 and 10 and entries relating thereto inserted vide S.O.237(E), dt.29.3.89 published in the Gazette No. 171, dt.29.3.89. S.N. 11 and entries relating thereto inserted vide S.O.656(E), dt.24.8.1989 published in the Gazette No.519, dt. 21.8.1989

Inserted by S.O.237(E), dated 29,3,1989.

Inserted by S.O.656(E), dated 21.8,1989.

Inserted by Notification S.O.624(E), dated 3.9.1996. Inserted by Notification G.S.R.587(E), dated 1.9.2006

Annexure-IV

Relevant Abstract of Environment (Protection) Act, 1986; Environment (Protection) Rules, 1986 and Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

Environment (Protection) Act, 1986 —

"Section 5. POWER TO GIVE DIRECTIONS

Notwithstanding anything contained in any other law but subject to the provisions of this Act, the Central Government may, in the exercise of its powers and performance of its functions under this Act, issue directions in writing to any person, officer or any authority and such person, officer or authority shall be bound to comply with such directions.³

Explanation--For the avoidance of doubts, it is hereby declared that the power to issue directions under this section includes the power to direct--

- (a) the closure, prohibition or regulation of any industry, operation or process; or
- (b) stoppage or regulation of the supply of electricity or water or any other service".

"15. PENALTY FOR CONTRAVENTION OF THE PROVISIONS OF THE ACT AND THE RULES, ORDERS AND DIRECTIONS

- (1) Whoever fails to comply with or contravenes any of the provisions of this Act, or the rules made or orders or directions issued thereunder, shall, in respect of each such failure or contravention, be punishable with imprisonment for a term which may extend to five years with fine which may extend to one lakh rupees, or with both, and in case the failure or contravention continues, with additional fine which may extend to five thousand rupees for every day during which such failure or contravention continues after the conviction for the first such failure or contravention.
- (2) If the failure or contravention referred to in sub-section (1) continues beyond a period of one year after the date of conviction, the offender shall be punishable with imprisonment for a term which may extend to seven years."

"19. COGNIZANCE OF OFFENCES

No court shall take cognizance of any offence under this Act except on a complaint made by:

- (a) the Central Government or any authority or officer authorised in this behalf by that Government,²⁰ or
- (b) any person who has given notice of not less than sixty days, in the manner prescribed, of the alleged offence and of his intention to make a complaint, to the Central Government or the authority or officer authorised as aforesaid."

Environment (Protection) Rules, 1986

"4. Directions

- (1) Any direction issued under section 5 shall be in writing.
- (2) The direction shall specify the nature of action to be taken and the time within which it shall be complied with by the person, officer or the authority to whom such direction is given.

- (3) (a) The person, officer or authority to whom any direction is sought to be issued shall be served with a copy of the proposed direction and shall be given an opportunity of not less than fifteen days from the date of service of a notice to file with an officer designated in this behalf the objections, if any, to the issue of the proposed direction.
- (b) Where the proposed direction is for the stoppage or regulation of electricity or water or any other service affecting the carrying on any industry, operation or process and is sought to be issued to an officer or an authority, a copy of the proposed direction shall also be endorsed to the occupier of the industry, operation or process, as the case may be and objections, if any, filed by the occupier with an officer designated in this behalf shall be dealt with in accordance with the procedures under sub-rules (3a) and (4) of this rule:

Provided that no opportunity of being heard shall be given to the occupier if he had already been heard earlier and the proposed direction referred to in sub-rule (3b) above for the stoppage or regulation of electricity or water or any other service was the resultant decision of the Central Government after such earlier hearing.⁹

- (4) The Central Government shall within a period of 45 days from the date of receipt of the objections, if any or from the date up to which an opportunity is given to the person, officer or authority to file objections whichever is earlier, after considering the objections, if any, received from the person, officer or authority sought to be directed and for reasons to be recorded in writing, confirm, modify or decide not to issue the proposed direction.
- (5) In case where the Central Government is of the opinion that in view of the likelihood of a grave injury to the environment it is not expedient to provide an opportunity to file objections against the proposed direction, it may, for reasons to be recorded in writing, issue directions without providing such an opportunity.
- (6) Every notice or direction required to be issued under this rule shall be deemed to be duly served
 - (a) where the person to be served is a company, if the document is addressed in the name of the company at its registered office or at its principal office or place of business and is either-
 - (i) sent by registered post, or
 - (ii) delivered at its registered office or at the principal office or place of business;
 - (b) where the person to be served is an officer serving Government, if the document is addressed to the person and a copy thereof is endorsed to this Head of the Department and also to the Secretary to the Government, as the case may be, in-charge of the Department in which for the time being the business relating to the Department in which the officer is employed is transacted and is either-
 - (i) sent by registered post, or
 - (ii) given or tendered to him;
 - (c) in any other case, if the document is addressed to the person to be served and-
 - (i) is given or tendered to him, or
 - (ii) if such person cannot be found, is affixed on some conspicuous part of his last known place of residence or business or is given or tendered to some adult

member of his family or is affixed on some conspicuous part of the land or building, if any, to which it relates, or

(iii) is sent by registered post to that person;

Explanation.-For the purpose of this sub-rule,-

- (a) "company" means any body corporate and includes a firm or other association of individuals;
- (b) "a servant" is not a member of the family.

Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

- "23. Liability of occupier, importer or exporter and operator of a disposal facility.-
- (1) The occupier, importer or exporter and operator of the disposal facility shall be liable for all damages caused to the environment or third party due to improper handling and management of the hazardous and other waste.
- (2) The occupier and the operator of the disposal facility shall be liable to pay financial penalties as levied for any violation of the provisions under these rules by the State Pollution Control Board with the prior approval of the Central Pollution Control Board."

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BEFORE THE NATIONAL GREEN TRIBUNAL, PRINCIPAL BENCH, NEW DELHI ORIGINAL APPLICATION NO. 804/2017 (Earlier O.A No. 36/2012)

IN THE MATTER OF:-

RAJIV NARAYAN & ANR.

APPLICANT

VS.

UOI & ORS.

RESPONDENTS

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2.	ANNEXURE-A DETERMINATION OF ENVIRONMENTAL COMPENSATION TO BE RECOVERED FOR VIOLATION OF HAZARDOUS AND OTHER WASTES (MANAGEMENT AND TRANSBOUNDARY MOVEMENT) RULES, 2016.	
3.	ANNEXURE-B HON'BLE NGT ORDER DATED 12.04.2019	

BHARAT K. SHARMA SCIENTIST-E CENTRAL POLLUTION CONTROL BOARD, PARIVESH BHAWAN, EAST ARJUN NAGAR, DELHI-110032.

DATE: 10.05.2019 PLACE: DELHI 124

Compliance Report in the matter of OA No. 804 of 2017 (Earlier OA No.36/2012) titled Rajiv Narayan & Anr. Vs Union of India & Ors. in compliance of Hon'ble National Green Tribunal Order dated 12.04.2019

- (1) The Hon'ble National Green Tribunal. Principal Bench, New Delhi, vide orders dated 12.04.2019 in the matter of O.A. No. 804/2017 (Earlier O.A. No. 36/2012) with M.A. No. 1302/2018 in Interlocutory Application No. 63 in W.P. (C) No. 657/1995; Rajiv Narayan & Anr Versus Union of India & Ors. with The Research Foundation for Science, Technology And Natural Resource Policy Versus Union of India & Ors. passed the following orders:
 - "... 9. CPCB may determine the scale of compensation to be recovered for violation of the Rules within one month from today and furnish a report to this Tribunal by e-mail at ngt.filing@gmail.com..."
- (2) In compliance with above orders of the Hon'ble Tribunal, "Determination of Environmental Compensation to be recovered for violation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016", has been prepared by CPCB and is given at Annexure A.
- (3) The above document given at Annexure A is submitted herewith to the Hon'ble Tribunal in compliance of aforesaid order of the Hon'ble Tribunal, as at paras 1 above, for passing appropriate orders.

Determination of Environmental Compensation to be recovered for violation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

May 2019



Central Pollution Control Board

(Ministry of Environment, Forest & Climate Change, Government of India)
Parivesh Bhawan, East Arjun Nagar,
Shahdara, Delhi – 110032

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Determination of Environmental Compensation to be recovered for violation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

1. Background

Hazardous wastes are wastes which by reason of characteristics such as physical, chemical, biological, reactive, toxic, flammable, explosive or corrosive, causes danger or is likely to cause danger to health or environment, whether alone or in contact with other wastes or substances. Such wastes are generated from most of the industries engaged in manufacturing process and require to be managed without having impact on human health and environment.

The Govt. of India has notified Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended thereof, (herein after called as HOWM Rules, 2016) for the safe and environmentally sound management of hazardous wastes. The Rules lay down provisions for storage, packaging, transportation, recycling, utilization, pre-processing, co-processing, treatment, import, export, offering for sale, transfer or disposal, etc. of the hazardous and other wastes ("other wastes" has been defined under the said Rules).

In the matter of Original Application No. 804/2017 (Earlier O.A. No. 36/2012) With M.A. No. 1302/2018 in Interlocutory Application No. 63 in W. P. (C) No. 657/199; Rajiv Narayan & Anr Versus Union of India & Ors. With The Research Foundation for Science, Technology And Natural Resource Policy Versus Union of India & Ors., the Hon'ble National Green Tribunal, Principal Bench, New Delhi directed CPCB, vide orders dated 12/4/2019, to determine within one month the scale of compensation to be recovered for violation of the Rules. These guidelines have been prepared in compliance of the same and include methodology for calculating financial penalty and compensation for various violations of provisions of the HOWM Rules, 2016, in cases of the facilities requiring authorisation under the said Rules, 2016.

2. Salient features of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 pertaining to occupiers

The occupier of any factory or premises as defined under Rule 3(1)(21) of the Rules, means a person who has, control over the affairs of the factory or the premises and includes in relation to any hazardous and other wastes, the person in possession of the hazardous or other waste."

The salient features of the HOWM Rules, 2016, applicable to the occupiers are as follow:



Determination of Environmental Compensation to be recovered for violation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

A. Responsibilities of the occupier

Responsibility for safe and environmentally sound management of hazardous and other wastes remains with occupier as per Rule 4 of the HOWM Rules, 2016.

The Rule also stipulates waste management hierarchy that an occupier is required to follow i.e. prevention, minimization, reuse, recycling, recovery, utilisation including co-processing as preferential steps over disposal of hazardous and other waste. Sending/ selling/ transportation/ recycling/ disposing of the hazardous wastes shall be in accordance with the provisions laid down under the Rules. Further, occupier shall take all the steps while managing hazardous and other wastes to contain contaminants and prevent accidents and limit their consequences on human beings and the environment and provide persons working in the site with appropriate training, equipment and the information necessary to ensure their safety.

B. Requirement of authorization

Handling, generation, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilisation, offering for sale, transfer or disposal of the hazardous and other wastes are to be carried out by every occupier (requiring Consent to Establish or Consent to Operate under the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981) after obtaining authorization from the concerned SPCB/PCC. Further, the SPCBs/PCCs are required to grant the same after such enquiry as it considers necessary, and on being satisfied that the applicant possesses appropriate facilities as stipulated under Rule 6.

C. Storage of hazardous or other wastes

Hazardous and other wastes are not to be stored for more than ninety days in the premises and a record of such wastes should be maintained and made available for the inspection. SPCBs/PCCs can extend the said period of ninety days in cases of small generators (up to 10 Tonnes/Annum), actual users and disposal facility operators, occupiers not having access to any common treatment, storage, disposal facility in the concerned State, etc., which have also been laid down under Rule 8 of the HOWM Rules, 2018.

D. Utilisation of hazardous or other wastes

Procedures for utilisation of hazardous and other wastes as a resource or after pre-processing either for co-processing or for any other use have been laid down under Rule 9 of the HOWM Rules, 2016, and the same are to be carried

Determination of Environmental Compensation to be recovered for violation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

out only after obtaining authorization from the concerned SPCB/PCC on the basis of standard operating procedures or guidelines provided by CPCB.

E. Import and Export (Transboundary Movement) of hazardous and other wastes

Import of hazardous and other wastes from any country is permitted only for recycling/reuse/recovery and utilisation including co-processing and list of wastes which are prohibited for import to the country has also been stipulated. Ministry of Environment, Forest and Climate Change (MoEF&CC) has been stipulated as the nodal Ministry to deal with the transboundary movement of the hazardous and other wastes.

Procedures for import and export of hazardous and other wastes have been prescribed such as making an application to MoEF&CC, furnishing information to custom department, etc. It also lays down conditions where Import/Export shall be deemed illegal and the role of Customs authority and SPCB/PCC in such cases. Rule 11 to Rule 14 of the HOWM Rules, 2016, lays down provisions with regard to the said import and export.

F. Treatment, storage and disposal facility for hazardous waste

State government, occupier, operator of facility or any association of occupiers are individually or jointly or severally be responsible for identification of sites for establishment of facility for treatment, storage and disposal of hazardous and other wastes in the State.

Operator of common facility or occupier of captive facility is required to set up the same as per technical guidelines issued by CPCB and obtain approval for design and layout from the SPCB/PCC. Occupier/Operator of facility is also responsible for maintaining records, safe and environmentally sound operation of facility and its closure and post-closure phases as per CPCB guidelines. SPCB/PCC is required to monitor setting up and operation of the common facility, regularly. Such provisions have been stipulated under Rule 16 of the HOWM Rules, 2016.

G. Packaging, Labelling and Transportation of hazardous waste

Procedures for packaging have been prescribed for safe handling, packaging, storage and transportation of hazardous wastes under Rule 17 of the HOWM Rules, 2016. Procedures for transportation of hazardous wastes such as in accordance with Motor Vehicles Act, 1988; providing relevant information regarding hazardous nature of wastes, emergency measures, labelling, obtaining no objection certificate from SPCB/PCC in case of transportation

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Determination of Environmental Compensation to be recovered for violation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

for final disposal to other State, transportation by sender or receiver, etc. have been laid down under Rule 18 of the HOWM Rules, 2016.

H. Manifest System (Movement Document) for movement of hazardous waste

The Rule 19 lays down provisions of Manifest System (Movement Document) in various colour-coded manifest (07 colour codes) prescribed as Form 10 which travels with hazardous waste from the point of generation, through transportation, to the final recycling, utilization or disposal facility, as the case may be, as well as intimation of the same to the sender, transporter, receiver and the concerned SPCB/PCC at various stages such as at the time of handing over the waste to transporter and transporter to the receiver.

I. Records and returns

Occupier/Operator is required to maintain date wise records of handling and management of hazardous wastes and send annual returns to SPCB/PCC by 30th June of every financial year about hazardous wastes generation, storage, recycling, utilisation, disposal, etc. Based on which SPCBs/PCCs are required to prepare annual inventory of the waste generated, recycled, utilized, disposed, etc. for the respective State/UT and submit the same to CPCB by 30th September of every financial year. CPCB is required to prepare consolidated report on management of hazardous wastes and submit the same to the Ministry of Environment, Forest and Climate Change before 30th December once in every year. The SPCBs/PCCs shall prepare an annual inventory of the waste generated, recycled, recovered, utilised including coprocessed; re-exported, disposed, etc. and submit by 30th day of September every year along with the inventory of hazardous waste generators, actual users, and common and captive disposal facilities to CPCB every two years. CPCB shall prepare the consolidated review report on management of hazardous and other wastes and forward it to the Ministry of Environment, Forest and Climate Change along with its recommendations before 30th day of December once in every year. Provisions in these regards have been stipulated under Rule 20 of the HOWM Rules, 2016.

J. Liability of occupier, importer or exporter and operator of a disposal facility and Financial Penalty

The occupier, importer or exporter and operator of the disposal facility is liable for all damages caused to the environment or third party due to improper handling and management of hazardous and other wastes. Further, occupier and operator of a disposal facility are also liable to pay financial penalty levied

by SPCBs/PCC for violation of provisions under these Rules with prior approval of CPCB, as laid down under Rule 23.

K. Accident reporting

Occupier/Operator of facility is required to immediately intimate the SPCB/PCC through telephone/ e-mail/ about the accident and subsequently send a report as stipulated under Rule 22 of the HOWM Rules, 2016.

3. Provisions about financial penalty and liability for damages caused to the environment under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules. 2016

Rule 23 of the HOWM Rules, 2016, lays down provisions with regard to liability for damages caused to the environment or third party including financial penalty for violation of provisions of the Rules and the same is reproduced as below:

- "23. Liability of occupier, importer or exporter and operator of a disposal facility.-
- (1) The occupier, importer or exporter and operator of the disposal facility shall be liable for all damages caused to the environment or third party due to improper handling and management of the hazardous and other waste.
- (2) The occupier and the operator of the disposal facility shall be liable to pay financial penalties as levied for any violation of the provisions under these rules by the State Pollution Control Board with the prior approval of the Central Pollution Control Board."

CPCB has issued "Guidelines on Implementing Liabilities for Environmental Damages due to Handling & Disposal of Hazardous Waste and Penalty" for implementing the aforesaid provisions of Rule 23. The guidelines include description of liabilities, approach for valuation of the same, methodology for levying financial penalty, role of SPCB/PCC and other stakeholders etc. SPCBs/PCCs are required to follow procedures laid down under these guidelines while enforcing the aforesaid provisions of Rule 23. Copy of the said guidelines is given at Annexure I and is also available at CPCB website http://epcb.nic.in/uploads/hwmd/Guidelines Environmenal Damages Costs 200116.pdf

Determination of Environmental Compensation to be recovered for violation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

4 Categorization of violations and financial penalty & environmental compensation thereof

For the purpose of imposing financial penalty and environmental compensation, various violations of HOWM Rules, 2016, can be broadly classified into the following two categories:

A. Category A: Only procedural violations of HOWM Rules, 2016, which has not caused damage to environment or third party

Certain violations of HOWM Rules, 2016, are procedural violations in nature and do not cause any damage to environmental or third party.

For instance, an authorised occupier has collected, stored, packaged, transported and handed over all his hazardous or other wastes generated to authorised recyclers/utilizers in environmentally safe manner but has not sent annual return within the stipulated time period to SPCB/PCC (as required under Rule 20(2) of the HOWM Rules, 2016) or has not given prior intimation to SPCB of the States of transit in case of inter-state movement (as required under Rule 18(5) of the HOWM Rules, 2016), etc. In such cases, though there have been violations of provisions of the Rules which are procedural requirements in nature but has not caused damaged to the environment. However, financial penalty would be applicable in such cases for violations of each and every relevant provision of the HOWM Rules, 2016, as outlined under section 5 of this document.

B. Category B: violations causing environmental damage including procedural violations

These are violations of the HOWM Rules, 2016, causing environmental damages including procedural violations of the Rules. The same may further be classified into two categories as below:

(i) Category B1: Cases where mismanagement of hazardous or other waste has resulted or resulting into environmental damage and such damages liability including assessment of remediation required can be assessed in terms of cost also by applying provisions laid down under CPCB's "Guidelines on Implementing Liabilities for Environmental Damages due to Handling & Disposal of Hazardous Waste and Penalty".

For example, disposal of hazardous or other waste on land or surface/ground water by an occupier, operator, transporter, importer, exporter, etc. as the case may be, has been identified by SPCB/PCC and damages to the environment and remediation work as well as cost thereof can also be assessed by SPCB/PCC in accordance with the said

guidelines. In such cases, liability of the responsible party (occupier, operator, transporter, importer, exporter, etc., as the case may be) can be fixed in terms of various required activities and amount of money required in such activities (i.e. taking up immediate Emergency Response Plan Measures such as containment of hazardous or other waste; assessment of contamination and required remediation work, and; execution of selected remediation plan) in accordance with provisions laid down under the said CPCB's "Guidelines on Implementing Liabilities for Environmental Damages due to Handling & Disposal of Hazardous Waste and Penalty". The responsible party (occupier, operator, transporter, importer, exporter, etc., as the case may be) is required to pay bank guarantee to SPCB/PCC and compensation liability (loss of property, loss of crop, loss of life, treatment cost towards human health impacts, etc.) as suggested in the guidelines. Copy of the said guidelines is given at Annexure I.

Besides, financial penalty would also be imposed as given under section 5 of this document

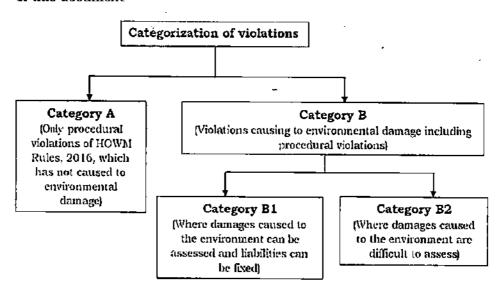


Figure 1: Categorization of violations

(ii) Category B2: Cases where mismanagement of hazardous or other waste may have caused environmental damage and such damages & remediation required including cost thereof are difficult to assess.

For example, an authorised occupier, operator, transporter, importer, exporter, etc., as the case may be, of hazardous or other wastes has illegally disposed hazardous or other waste on place which is unidentifiable or even if identified, damages to the environment and

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Determination of Environmental Compensation to be recovered for violation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

remediation work as well as cost thereof is difficult to be assessed by SPCB/PCC. Such difficulty may arise due to very small quantity of wastes involved in such acts, wastes disposed along with municipal solid waste, wastes may have been washed off with runoff water, etc. In such cases, it may be difficult to assess damages caused to the environment and liability of the responsible party (occupier, operator, transporter, importer, exporter, etc., as the case may be) as well as cost thereof.

Under such circumstances, methodology for imposing financial penalty and environmental compensation are given under section 5 of this document.

5. Methodology for Assessing Financial Penalty and Environmental Compensation

A. Financial Penalty

In accordance with provisions under Rule 23(2) of HOWM Rules, 2016 and section 15 of the Environment (Protection) Act, 1986, CPCB guidelines on "Implementing Liabilities for Environmental Damages due to Handling & Disposal of Hazardous Waste and Penalty" (given at Annexure I) stipulate that financial penalty to be levied by the concerned SPCB/PCC for any violation may be limited to maximum of one lakh rupees per provision violated so as to ensure that levying of financial penalty remain within the brief of the Environment (Protection) Act, 1986, since the said Rules have been notified under the Environment (Protection) Act, 1986. However, non-compliance may attract violation of one or several provisions of the said Rules and thus the total financial penalty amount may be arrived by adding up number of provisions violated. Further, additional fine up to Rupees five thousand rupees for every day may also be imposed in case of failure continues by the responsible party beyond period by which remedial/corrective measures would have been implemented as suggested by the SPCB/PCC.

Therefore, financial penalty requires to be imposed and collected from the violators as maximum of Rs. 1 lakh for violation of each provision stipulated under HOWM Rules, 2016 (in addition to the environmental compensation which has been discussed in section B below). List of various violations vis-à-vis provisions of HOWM Rules, 2016 is given at **Appendix A** for ready reference.

Total numbers of violation will vary on case to case basis. For instance (indicative only), unit found generating any hazardous or other waste

Determination of Environmental Compensation to be recovered for violation of Hazardous and Other Wastes [Management and Transboundary Movement] Rules, 2016

and disposing or handing over their waste to unauthorized person/places without complying any provisions of the HOWM Rules, 2016, may attract violation of 25 numbers of provisions (at S. No. 1, 2, 3, 4, 5(a), 5(b), 6 number of violations at 6(A), 6(D), 8, 31, 32, 33, 34, 39, 40, 41, 42, 49, 47 and 50 of Appendix A). There could be other several scenarios, therefore, total financial penalty amount be derived using the said approach.

B) Environmental Compensation-

For category B1 violations, steps as suggested in the above section 4(B)(i) may be followed in accordance with provisions laid down under the said CPCB's "Implementing Liabilities for Environmental Damages due to Handling & Disposal of Hazardous Waste and Penalty" (given at Annexure I). For category B2 violations, environmental compensation as suggested below may be considered.

Quantity of hazardous or other wastes, which may have caused environmental damages, may be proportionate to extent of damages thereof. Environmental compensation may, therefore, be directly correlated with the quantity of hazardous or other waste under reference. It may be difficult to assess extent of damages which may have been caused elsewhere or the damages which have been assimilated by nature. At the same time, sometimes it may not be practically feasible to know quantity of hazardous or other wastes which have been disposed illegally. For instance, a facility, particularly unauthorised unit, is operating for certain years who has never assessed or documented hazardous or other wastes generated by them and has no document to support that the same have been disposed in environmentally sound manner in compliance with the regulations existing since 1989. Further, such facility may have changed their industrial process or raw materials or products, thereby variation in quantity of the wastes generated during such period. Whereas a facility possessing authorization under the Rules is granted the authorisation specifying categories and quantity of the hazardous or other wastes based on declarations made by the unit while making application for the same.

Determination of Environmental Compensation to be recovered for violation of Hazardous and Other Wastes [Management and Transboundary Movement] Rules, 2016

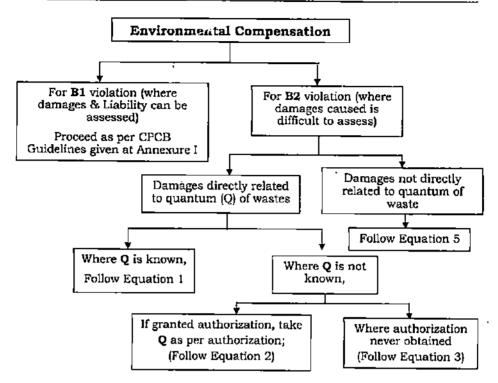


Figure 2. Approach for calculating environmental compensation in brief

Under such wide variables, the following quantity based environmental compensation calculation in Rupees may be used and be imposed on violating facility operator:

Where,

Q is noticed¹ or observed¹ quantity (in tonne) of hazardous or other wastes which have not been managed in compliance with various provisions of the Acts/Rules/Guidelines/conditions of the

¹ Noticed or observed quantity is the reported quantity or that has come to the notice of SPCB/PCC/CPCB/MOEF&CC. For instance, an authorised utilizer has authorisation to utilise 100 tonnes of certain hazardous waste/annum from which 200 tonnes of product is derived whose use has been specified in SOP issued by CPCB for industrial use only. He may have produced say 150 tonnes of product but it has come to the notice (through inspection or complain verification) of SPCB/PCC/CPCB that he has sold 10 tonnes of the product in open market and not to any industry. Here, Q would be 5 tones. Similarly, an authorised industrial unit authorised for 100 tonne of per annum generation of waste has not sent such waste to common TSDF or any other authorised facility nor is found stored in his premise. Here Q would be 100 tonne.

authorisation/directions issued by CPCB/SPCB/PCC/MoEF&CC (barring procedural violations which have not caused environmental damage)

ERF = Environmental Risk Factor which is a number (as given in Table 1 below) denoting the increasing degree of risk to the environment and human health due to the scenarios as given in the Table 1.

Table 1: Environmental Risk factor (ERF)

S. No.	Violation	ERF	
		For Hazardous Waste	For Other* Waste
1,	When hazardous and other wastes is disposed at unauthorised place or handed over or sold to unauthorised party	1.5	0.3
2.	When treatment has not been imparted, as required, but only partial treatment has been given (by TSDF/Actual user)	1.0	0.2
3.	When product (derived from hazardous or other waste) is not confirming to prescribed specification or is specified for restricted use but sold in open market against (in case of actual user)	1.0	0.2
4.	Wastes found stored beyond the stipulated period (refer Rule 8 of the HOWM Rules, 2008)	0.1	0.05

^{*}Applicable to waste generated indigenously only.

R= Environmental Compensation factor, which may be taken as Rs. 30,000.

<u>Note:</u>

(i) For facility engaged in generation/ recycling/ utilizing/ disposing of hazardous or other waste and such wastes have never been handed over to common TSDF/ actual user:

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Case 1: If authorisation has been taken at any point of time, in such cases, Q may be taken as below:

Q= Quantity in terms of tone/per year, as specified in authorisation (one year =300 days) x Y

[.....Equation 2]

Where, Y is Number of years of operation of the facility and may be considered as given in Table 6 below. In case authorisation is given in quantity/day, then convert in tone/year by multiplying the same with 300 days.

Case II: If authorisation has not been taken at any point of time for all or any given category of hazardous or other waste being generated/utilized

When above scenario comes to the notice of SPCB/PCC/CPCB, it may be difficult to find Q as records pertaining to quantity of generation/utilization of hazardous or other waste may not be available. In such case, a generalised way of calculating Environmental Compensation (EC) in Rupees may be used as below:

EC (in Rupees) = T x S x C x ECF x Y

[.....Equation 3]

Where,

T = Type of facility factor and may be taken as below from Table 2 below:

Table 2: Type of facility factor

Sl. No.	Scale of operation	Factor
1.	(i) Actual user procuring hazardous waste from outside their premises including importing hazardous or other waste from other country	1.5
2.	 (i) Actual user engaged in utilizing/ recycling of only other wastes which are generated indigenously, and; (ii) All facility other than at Sl. No. (1) and 2(i) above 	1

S = Scale of Operation factor of the facility and may be taken from Table 3 as below:

Table 3: Scale of operation of the facility

Scale of operation	Scale Factor		
Large	1.5		
Medium	I		
Small or Micro	0.5		

ECF = Environmental Compensation Factor, which is summation of one or more ECF, as applicable, as given in Table 4 below:

Table 4: Environmental Compensation Factor

S.	Type of operations from where waste is	ECF
No	generated	
1.	Main Process (when significant quantity of waste generation like spent acid, process sludge, spent solvent, etc.)	45,00,000
2	Pollution control equipment like ETP, APCDs, etc. such as ETP sludge, incineration bottom residues, cyclone residue, etc.	35,00,000
3	Ancillary equipment used for supporting the industrial process such as DG set, etc.	10,00,000
4	Handling of hazardous chemicals and wastes (waste packaging materials like emptied drums/bags/etc. contaminated with hazardous chemicals/wastes) and Cleaning activities like cotton/cloth waste contaminated with oil/grease/grease, hazardous chemical storage tank, etc.	20,00,000
5.	Other operations not listed above	10,00,000

C = Category of Facility factor and be taken from Table 5 as given below;

. Table 5: Category of Facility Factor

Type of Facility	T Factor
Red Category	1
Orange Category	0.2
Green Category	0.05

Y = Number of years of operation of the facility and may be considered from Table 6 as below:

Table 6: Number of days of operation of the facility

S.No	Years of Operations	Factor to be taken
1.	More than 03 years	5
2.	Equal to less than 03	Actual duration of
	years	operation in months/12

(ii) In cases where non-compliances have been observed for known period wherein quantity (Q) of hazardous or other waste correlated to such violations is also known – e.g. in-adequate storage facility in cases of authorised facility or failure to comply with any directions of SPCB/PCC/CPCB (say directions issued w.r.t. non-compliance of incinerator emission standards and facility continued to

operate). Amount of EC for such cases may be calculated based on Q associated with such violations period and number of days for which violation took place. Such number of days for which violation took place is the period between the day of violation observed/ due date of compliance of directions and the day of compliance verified by CPCB/ SPCB/ PCC.

EC = EC (as derived from Equation 1) + (Rs. $5000 \times Nos$. of days for which violation took place)

[.....Equation 4]

- (iii) Apart from the above cases, there could be following violations or other similar type violations (which are not covered in the various above mentioned scenarios) in hazardous waste TSDF or actual user facility:
 - a. The leachate is illegally disposed or send to unauthorised party
 - Violations in leachate management or the leachate management facility requires upgradation as per direction of CPCB/ SPCB/ MoEF&CC
 - c. Waste Water generated during the process is disposed illegally or not as per the consent conditions
 - d. Effluent Treatment Plant is not meeting the norms stipulated under EPA, 1986 or CTO issued by SPCB/PCC
 - e. Effluent Treatment Plant exist but requires upgradation so as to meet the conditions specified under CTO or CPCB' guidelines/SoP
 - f. Treated effluent not managed as per the conditions specified under CTO or CPCB' guidelines/SoP

Under such circumstances, the environment compensation may be calculated as below:

Environmental Compensation (EC) = PI×N×R×S×LF

.....Equation 5]

Where,

PI is Pollution index (based on the CPCB guidelines on Revised Classification of Industrial Sectors under Red, Orange, Green and White Categories) and to be taken from Table 7 below:

Table 7: Classification of industrial sector

Category	Pollution Index		
Red	80		
Orange	50 ·		
Green	30		

N is Number of days for which violation took place is the period between the day of violation observed/ due date of compliance of directions and the day of compliance verified by CPCB/ SPCB/ PCC.

R is Environmental Compensation factor in Rupees R to be taken as 250

S = Scale of Operation of the facility and may be taken from Table 8 below;

Table 8: Scale of operation

Scale of operation	Factor
Micro or small	0.5
Medium	1.0
Large	1.5

LF could be based on population of the city/town and location of the industrial unit. For the industrial unit located within municipal boundary or up to 10 km distance from the municipal boundary of the city/town, following factors (LF) may be taken from Table 9 below:

Table 9: Location factor based on population

S. No.	Population* (million)	Location Factor#		
1	Less than 1	1.0		
2	1 to < 5	1.25		
3	5 to <10	1.5		
4	10 and above	2.0		

^{*}population of the city/town as per the latest Census of India

LF will be 1.0 in case unit is located > 10km from municipal boundary

For critically populated areas/Ecologically sensitive areas, the scope of LF may be examined further.

C. Deterrent Factor

(a) In case of non-timely submission of Environmental Compensation and Financial Penalty

The Environmental Compensation Charges and Financial Penalty shall be deposited by the violating facility within the stipulated time period specified under directions issued by CPCB/SPCB/PCC. In case, such facility does not submit the same within the stipulated time frame the amount will be exponentially increased. The details of exponential increase are given below:

Determination of Environmental Compensation to be recovered for violation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

Table 10: Environmental Compensation Charges and Financial Penalty w.r.t. non-timely submission

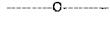
Sl. No.	Amount Deposition time period	Environmental Compensation and Financial Penalty Amount
1.	Within 15 days from the stipulated time period as directed by CPCB/SPCB/PCC	Original amount with interest @ 12% per annum for number of days delayed after the stipulated date of amount deposition
2.	After 15 days but within 03 months after the stipulated time period as directed by CPCB/SPCB/PCC	Two times the original amount with interest @ 12% per annum for number of days delayed after 15 days of the stipulated date of
3.	After 03 months and up to 06 months from the stipulated time period	Four times the original amount with interest @ 12% per annum for number of days delayed after three months of the stipulated date of amount deposition
4.	After 06 month	Closure of unit/facility and count

(b) In case of repeated violations

In case the violators found repeatedly non-complying with previous violations or new violations, the amount of Environmental Compensation and Financial Penalty be exponentially increased. The details of exponential increase in such cases are given below:

Table 11: Environmental Compensation Charges in case of repeated violation

Sl. No.	Time Period for compliance	Environmental Compensation and Financial Penalty Amount
1.	First time violation	Original amount
2.	Second time violation	Two times the original amount
3.	Third time violation	Four times the original amount
4.	Fourth time violation	Closer of unit and Court case



15%

HARYANA STATE POLLUTION CONTROL BOARD C-11, SECTOR-6, PANCHKULA

Website – <u>www.hspcb.gov.in</u> E-Mail :hspcbsolidwaste@gmail.com Ph:0172-2577870-873

NO.HSPCB/WMC/SWM/2020/ 8 8€/

Dated: 20/02/2020

Τa

F7MO:

Senior Environment Engineer, Hazardous Waste Management Cell, HSPCB

Sub: Information desired by CPCB for forthcoming appearance of Worthy Chief Secretary before Hon'ble NGT and information on Gap analysis observed by the CPCB in status report submitted to Hon'ble NGT in matter of OA No. 606/2018 titled as "Compliance of Solid Waste Management Rules."

Kindly refer to this office letter No. 8105 dated 07.02.2020 on the subject noted above.

In this connection, you were requested vide above referred letter to submit the information suggestive format regarding control of river pollution in State supplied by CPCB for the forthcoming appearance of Chief Secretary before Hon'ble NGT and information on gap analysis report submitted by CPCB in Hon'ble NGT in matter of OA No. 606/2018 titled as "Compliance of Solid Waste Management Rules" within 07 days, but no reply has been received till date.

The detail of gap analysis observed by the CPCB with respect to Hazardous Waste Management & E-Waste Management with reference to the State of Haryana is as under:

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A. Hazardous Waste Management Rules

1. CPCB has given the remark i.e., relevant information not submitted for point no. 1 (at page no. 54) and 4 (at page no. 55) in status report

B. E-waste Management Rules

1. CPCB has given the remark i.e., no information provided by state of Haryana for point no. 3 (at page no. 47) in status report.

In view of the above, it is requested to provide the information in suggestive formats enclosed herewith for the forthcoming appearance of Chief Secretary before Hon'ble NGT and information's on gaps observed by CPCB in its status reports submitted to Hon'ble NGT in the matter of OA No. 606/2018 titled as "Compliance of Solid Waste Management Rules" immediately, so that the report could be submitted to the Chief Secretary, Govt. of Haryana.

DA/As above.

Senior Environmental Engineer For HSPCB





Format for State wise review of compliance to Hon'ble NGT Directions for control of Air Pollution in Non-attainment cities

- 1. Name of the State/IT
- 2. Number of cities identified as Non-attainment cities

10)54

- 3. Detail on Air quality monitoring infrastructure with regard to Manual, real time station:
- 4. Whether city action plans prepared for all Non-attainment Cities: Yes/No
- 5. Whether the assessment and installation of the requisite number of monitoring stations in the nonattainment cities completed : Yes/No

if yes, please provide details in table 1, if not time for completion?

6. Have polluting sources identified

(Source Apportionment/Emission Inventory)

: Yes/No.

If yes, please provide details if not, has any Source Apportionment/Emission Inventory initiated in the city? (Table 2)

7. Does short term actions to control dust emissions as per city action plan, regularly implemented & monitored?

: Yes/No

If yes please provide details

8. Does short term actions to control emissions from waste burning and dumping as per city action plan, regularly implemented & monitored?

: Yes/No If yes, please provide details

9. Micro level planning for each of actions in the city plan framed?

: Yes/No If yes, please provide details in Table 3

10. Implementation status of city plans in %

Please provided details in Table 4

Status of Emergency Response System developed including GRAP

:Yes/No

If yes, please provide Details

. 12. Public Grievance Redressal Portal status

: Yes/No

If yes, complain redressal status, so far

13. Progress in line with the timelines mentioned in the approved plan

: Yes/No

14: Constitution of District level Committee covering each Non-Attainment city

: Yes/No



Table 1: Status of Monitoring Station

. Name of the	City Name	CAAQMS		Manual Stations		
State	(with population)	Existing Stations	Required Stations	Existing Stations	Required Stations	Remark
			<u> </u>	•		
Tot	al					

Table 2: Status of Source Apportionment (SA)/Emission Inventory (EI)

Name of the State	City Name	Status of SA/EI	Study conducted by	Year	Expected time for completion of the study	Remark
•				· · · · · · · · · · · · · · · · · · ·		

Table 3: Status of Micro-level planning of city action plan

City Name	Source	. Action Point	Micro- level planning	Time Target	Implementation agencies	Target Reduction
,						

Table 4: Format for progress of implementation of action plan

S.No Action: Unit of Boint: Measurement	Implemen statu	S	Action Completion	Deviation from	date of	Cost	Remarks
of Progress	% Completed	Details	Date as per- city plan	targeted timelines, if any	completion		
Impleme tation period: Imme	diate action -	- 6 month	5				
			CHAT		<u> </u>		
Implementation period: 01 to	03 years				<u>. </u>		
					,		•
Implementation period: 03 to)5 years		American a series with the series of		•	201	
			产生之类				-
Implementation period Above	05 years		,		· <u> </u>	. ,	
	-		PARTY IN			a mar Co	

^{*}The highlighted portions will be as per the approved city action plans.

• Date of direction for ground implementation of action plan (Zero Date)



Format for State wise review of compliance to Hon'ble NGT Directions for Control of River Pollution

1. Name of State/UT

2. No of identified Polluted River Stretches P-I to P-V

Water Ouality

A. Polluted River Stretch (Range in Year 2019)

7227777		
BOD (mg/l)	Min	<u> </u>
	Max	
Fecal Coliform	Min	
(MPN/100ml)	Max	

In absence of FC, TC may be given

B. Has the State identified all pollution contributing drains : Yes/ No

If yes, please provide details in table 1

4. Action plan addressing the gaps

A. Gap assessment in sewage treatment completed

: Yes/No

If yes, please provide details in table 2

B. Gap assessment for industrial pollution completed

: Yes/No

If yes, please provide details in table 3

C. Solid waste management addressed

: Yes/No

If yes, please provide details in table 4

D. Other Wastes

: Yes/No

If yes, please provide details in table 5

5. Measures taken for

A. Control of Illegal Ground Water Abstraction : Yes/No : Yes/No B. River catchment/ Basin Management : Yes/No C. Flood Plain Zone Protection D. E Flow maintenance & Watershed Management : Yes/No ; Yes/No E. Ground water recharge/ Rain water harvesting F. Setting up of Biodiversity Parks, Greenery/ plantation : Yes/No

along the banks of river stretch

G. Removal of encroachments

: Yes/No

6. Progress in line with target dates of March 2021

: Yes/No



Table 1: Details of drains contributing to pollution in polluted river stretch

River Stretch:			Priority:			
Drain	Type Domestic/ industrial/ mixed	Quantity (MLD)	BOD (mg/l)	FC (MPN/100ml)		
1						
2						
3						
•		-				

In absence of FC, TC may be given

Table 2: Details for sewage management (in MLD)

Generated	Processed/ Treated	Gap

Table 3: Details for industrial effluent management (in MLD)

Generated	Processed/ Treated	Gap

Table 4: Details for MSW (in TPD)

Generated	Processed/ Treated	Gap

Table 5: Details for other wastes (in TPD)

Type of Waste	Generated	Processed/ Treated	Gap
BMW			
HW			
Plastic Waste			
E Waste			,
C& D waste			



Si.		Issue	Remarks
No			·
1	а	What is the quantity of MSW generated in the state	
2	а	What is the quantity of MSW processed in the state	
3	a [.]	What is the quantity of MSW sent to the landfills	
4	а	Is door-to-door collection /segregation & transportation of segregated	
		waste being done in the entire State	
	Ь	If not, please provide percentage coverage of the State as per "4a" above	
	С	If not, please provide timeframe for coverage of entire state as per "4a" above	
	d	If not, has destination of disposal for mixed waste been identified for	· · · · ·
		areas in which segregation of waste is not being done	
5	а	Is all waste generated in the state processed in the waste processing facilities	
	ь	If not, please provide percentage coverage of the State as per "5a" above	
	С	If not, please provide timeframe for above for coverage of entire state for "5a" above	
6	а	Have all dumpsites in the state been cleared	
	q	If not, please indicate the number of dumpsites in which work has	
_		commenced and percentage of waste cleared	
	U	If not, please provide timeframe for clearing of all dumpsites	
7	а	Have rates for procurement of services/equipment (to do away with the	
		tendering process) required for solid waste management been	
		standardized	
i	b	If not, please provide timeframe for standardizing of the same	
5	а	What action has been initiated against the defaulting officers/	1
		organization (financial penalty, Entry in ACR, etc) responsible for Solid	
·		Waste Management	
	b	If yes, please provide the details	_
	С	If, no ,please provide the details of action proposed to be taken against	
		the defaulting officers/organizations (financial penalty, Entry in ACR, EC,	•
		Prosecution etc)	
•	a	Has environmental management cell been created in the state for	
<u></u> -;		monitoring key environmental issues	

SI.No		Issue	Remarks
1	а	Quantity of Sewage generated in the State	
2	а	Quantity of Sewage treated in the State	<u> </u>
3	а	Existing Coverage of Sewerage Network	<u> </u>
4	а	Has Sewage generation (town / City wise) been estimated for	1
		present and future population? Please provide details of the	
5	а	Has adequate treatment capacity been developed for treatment	
	b	If not, then what is present percentage of sewage being	
C		If not, please provide the the timeframe by which all sewage	
	1	generated in the State shall be treated	
6	а	Please provide details of STPs (Town/ City Wise) along with	
		details on compliance status and treatment capacity	
7	а	Is entire sewage generated from each town being linked with	
		sewerage network in the state?	
	р	If not, then what is the present current percentage of sewage	
		being collected through the existing sewerage network?	
 	C -	If not, then please provide the the timeframe by which all sewage	
		generated in the State shall be collected through sewerage	
8	а	Have all drains carrying waste water in each town / city been	
	b	Provide details on the pollution load due to these drains	ļ
	С	Has in-situ treatment of wastewater being carried out in all such	
		drains for reduction of pollution load?	
	d	If not, then please indicate the number of drains in which in-situ	
		treatment of waste water has commenced	
	е	If not, then please provide the timeframe within which in-situ	
		treatment of wastewater shall be carried out in all such drains for	
		reduction of pollution load	
6	а	Have all bulk users for reuse of wastewater been identified?	ļ <u>-</u>
	d	Is all treated wastewater from the STPs being reused for differen	t
-	C	If not, then what is current percentage of wastewater being	
	d	If not, then please provide the the timeframe within which all	
		treated wastewater from STP shall be reused for different	

BEPORE THE NATIONAL GREEN TRIBUNAL PRINCIPAL BENCH NEW DELHI 0'A.No:606/2018;



COMPLIANCE OF MUNICIPAL SOLID WASTE MANAGEMENT RULES, 2016

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DIVYA SINHA SCIENTIST E CENTRAL POLLUTION CONTROL BOARD PARIVESH BHAWAN, EAST ARIUN NAGAR DELHI-110032

DATE: 27,12,2019 PLACE: DELHI

(696)

STATUS REPORT ON ACTION PLAN ON 14 THEMATIC AREAS

N

O.A NO. 606 OF 2018;
TITLED COMPLIANCE OF MUNICIPAL
SOLID WASTE MANAGEMENT RULES,
2016.



(November, 2019) ·

CENTRAL POLLUTION CONTROL BOARD

Ministry of Environment, Forest and Climate Change, Govt. of India Parivesh Bhawan, East Arjun Nagar, Delhi-110032

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CENTRAL POLLUTION CONTROL BOARD, DELHI

December 27, 2019

STATUS REPORT ON ACTION PLAN ON 14 THEMATIC AREAS

REFERENCE: O.A NO. 606 OF 2018; TIPLED COMPLIANCE OF MUNICIPAL SOLID WASTE MANAGEMENT RULES, 2016.

1.0 BACKGROUND

Hon'ble National Green Tribunal in the matter of O.A No. 506 of 2018; titled Compliance of Municipal Solid Waste Management Rules, 2016 vide order dated 12.09.2019 directed as follows:

"The information with regard to above thematic areas needs to be submitted to CPCB by the Chief Secretaries of all the States and Union Territories in terms of following:

- Current status
- Desirable level of compliance in terms of statutes.
- Gap between current status and desired levels.
- Proposal of attending the gap with time lines.
- Name and designation of designated officer for ensuring compliance to provisions under statute.

CPCB is permitted to file revised updated reports on the subject after collecting information from concerned States/UTs by 15.11.2019"

20 ACTION TAKEN BY CPCB

In compliance to direction issued, CPCB has taken following actions:

- (i) CPCB formulated templates for 06 thematic areas to facilitate submission of information
 - Municipal Solid Waste
 - b. E-Waste
 - c. Bio-Medical Waste
 - d. Noise Pollution
 - e. Hazardous Waste
 - f. Sewage Treatment Plant

Copy of the templates is enclosed at Annexure-I.

- (ii) CPCB communicated the directions of Hon'ble NGT to all Chief Secretaries of all States / Union Territories for timely submission of information vide letter dated 27.09.2019. Copy of letter is enclosed at Annexure-II. The templates prepared by CPCB were forwarded to all States/UTs
- (iii) As per Hon'ble NGT Directions, information has been received from 24 States /UTs (Assam, Andhra Pradesh, Andaman and Nicobar Island,

Chandigarh, Daman and Diu, Delhi, Chhattisgarh, Gujarat, Haryana, Kerala, Madhya Pradesh, Maharashtra, Manipur, Mizoram, Orissa, Punjab, Rajasthan, Tamil Nadu, Tripura, Dadar and Nagar Haveli, , Lakshadweep, Puducherry, Goa & Karnataka,) and information from remaining 11 States / UTs (Arunachal Pradesh, Bihar, Jammu & Kashmir, Jharkhand Meghalaya, Nagaland, Sikkim, Telangana, Uttarakhand, Uttar Pradesh, West Bengal) had not been received till 18.11.2019. Reports from Bihar, Jammu & Kashmir, Himachal Pradesh, Meghalaya and Telangana have been received late and the same have not been analysed by CPCB.

- .(iv) Nine States/UTs have provided information on all 14 thematic areas, their names are mentioned at Annexure-III.
- (v) CPCB again informed the concerned States/UTs to provide the information for all thematic areas vide email dated 14.11.2019 (Annexure-IV).

3.0GAP ANALYSIS :-

Information received from above mentioned 24 States/UTs has been analysed and CPCB's observations on the same have been detailed in the subsequent sections

3.1 Municipal Solid Waste Management

3.1.1 Information Status

Information for compliance of Solid Waste Management has been received from 22 States/UTs (Andhra Pradesh, Assam, Andaman and Nicobar Island, Chandigarh, Goa, Gujarat*, Chhattisgarh, Haryana, Kerala, Madhya Pradesh, Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Daman and Diu, Delhi, Lakshadweep ,Puducherry & Rajasthan) State/UTs wise details as per the format provided by CPCB is enclosed at Annexure-V.

*Gujarat has submitted report in compliance of Order dated 09th April,2019 in OA 606/2018.

3.1.2 OBSERVATIONS:

The States/UTs were required to provide information against 60 parameters as per CPCB format. However, few States /UTs have not provided information against all these sixty parameters, the details are given in the table below:



{ ~·	<u>·i</u>	<u>, , , , , , , , , , , , , , , , , , , </u>			
<u> .</u>	<u>; </u>	Status of	informat	ion Provided by States/UTs (SW	7M)
S.N	0,	Items		Name of States/UTs which	Name
	ļį		• •	have submitted information	States/UTs which
		•			have no
1	· [[,		ا ما
			•		
<u> </u>		<u></u>			submitted partial
1]	Percentage of Dis	tricts in	Information provided by 19	 .
		which Special Tas	sk Force	States/UTs (Assam,	Andhra Pradesh,
	(.)	Four members nom	inated by	Chhattisgarh, Gujarat,	Goa & Madhya
	ij	DM, SP, RO SPCB &	b District	Haryana, Kerala,	Pradesh,
	Ιį	egal Services Auth	orital foi		
; '	1	wareness has been	orbatos	Maharashira, Manipur,	
•	1		medicn'	Mizoram, Orissa, Punjab,	
		•	·	Rajasthan, Tamil Nadu,	
				Tripura, Andaman and	
			- ,	Nicobar Island, Chandigarh,	1500
	H			Daman and Diu, Delhi,	
·	1		<u> </u>	Lakshadweep & Puducherry)	
		ercentage of ULB		Information provided by 20	Andhra Pradesh
.	1 1	ave framed	byelaws	States/UTs	& Madhya
	III	corporating provis	ions of	(Assam, Chhattisgarh, Goa,	Pradesh
	51	WM Rules (15e)?		Gujarat, Haryana, Kerala.	
				Maharashtra, Manipur,	
į.		•	,	Mizoram, Orissa, Punjab,	
				Rajasthan, Tamil Nadu,	
				Tripura, Andaman and	
				Nicobar Island, Chandigarh,	
i		1	[Daman and Diu. Delhi	
				Lakshadweep & Puducherry)	
.	1,6	rcentage of opera	tors of	information provided by 19	Andhra Pradesh,
•]		lid Waste pro	cessing l'	17 c) 17 mm	Madhya Pradesh
!	tac	ility who have sul	mitted	アフルス	Rajasthan
	Ar	mual report.	.	Haryana, Kerala,	- Nejuditiait
	:			Maharashira, Manipur,	•
	i	•		Mizoram, Orissa, Punjab,	
.	Ì	•	20 19	Tamil Nadu, Tripura,	
		•		Andaman and Nicobar Island,	
	}		[:	Chandigarh, Daman and Diu,	
-	1	•		TN THE THE THE TANK THE THE TANK THE TA	
	ł	•		Delhi, Lakshadweep &	
]	į		· · · · · · · · · · · · · · · · · · ·	Puducherry)	
╌┸	 -	<u> </u>			<u> </u>



:	Status of information	Provided by States/UTs (SWM	Name of
S.No.	Items	Name of States/UTs which	States/UTs which
			States/U18 Willer
		: 1	have not
• •			Submitted
		· ·	information or
			submitted partial
•		·	information
4	Percentage of ULBs which	Information provided by 18	Daman & Diu,
•	have appointed inodal	States/UTs (Andhra Pradesh,	Deini, Gujarat &
	officer/committee.	Assam, Chhattisgarh, Goa,	Madhya Pradesh
• •	omcer/ commutee.	Haryana, Kerala,	
		Maharashtra, Manipur,	
		Mizoram, Orissa, Punjab,	
		Rajasthan, Tamil Nadu,	
•		1	
-		Tapara,	,
, .,	F. A. C. C. S. S. A. C. C. M. C.	Nicobar Island, Chandigarh,	
		Lakshadweep & Puducherry)	1 1 1 1 1 1 1 1 1 1 1 1
5	Percentage of ULBs which	Information provided by 19	Andhra Pradesh,
٠,	have submitted Annual		Gujarat &
	Report in Form IV to Secy.		Madhya Pradesh
		Kerala, Maharashtra,	J 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
: •	UD and SPCB	Manipur, Mizoram, Orissa,	
ļ <u>.</u>		Punjab, Rajasthan, Tamil	1 1 3c
41		Nadu, Tripura, Andaman and	1 Back
•		Nicobar Island, Chandigarh,	
,			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Lakshadweep, & Puducherry)	Andhan Dandagh
б,	Percentage of ULBs in which	Information provided by 20	Andria Pracesn
	Sweeping is carried out twice	States/U1s (Assaul,	& Madhya
	or more in public areas	Chhattisgarn, Goa, Gujarar,	Pracesh .
, ·		Haryana, Kerala,	
1		Maharashtra, Manipur,	
1.	A Committee of the Committee of	Mizoram, Orissa, Punjab,	1 44:
, ' ,	The second of the second of	Rajasthan, Tamil Nadu,	
\ \ . \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Tripura, Andaman and	
[' '		Nicobar Island, Chandigarh,	
100		Daman and Diu, Delhi,	, n
1 1		Lakshadweep & Puducherry)	
L			Andhra Pradesh,
7	Percentage of ULBs in which	\ 	1 1
'	Sweeping is carried out once	States/UTs (Assam,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1	or more in residential areas	Chhattisgarn, Goa, naryana,	Madhya Pradesh
1 .		Kerala, Maharashtra,	
		Manipur, Mizoram, Orissa,	
I '		Punjab, Rajasthan, Tamil	



À.			· · · · · · · · · · · · · · · · · · ·	
1	1	Status of Informa	tion Provided by States/UTs (SW	M)
おりをなって	S.No	o. Items	Name of States/UTs which have submitted information	Name of States/UTs which have not Submitted
中国 医一				information or submitted partial information
			Nadu, Tripura, Andaman and Nicobar Island, Chandigarh, Daman and Diu, Delhi,	
	8	Percentage of ULBs in which	Lakshadweep & Puducherry) h Information provided by 17	Con Consult
		user fees has been		Goa, Gujarat, Kerala, Madhya
		incorporated in Byelaws	Assam, Chhattisgarh,	Pradesh &
			Haryana, Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura,	Rajasthan
1 9 44			Andaman and Nicobar Island,	
1			Chandigarh, Daman and Diu, Delhi, Lakshadweep &	
	<u>;</u>		Puducherry)	
	. :	Percentage of ULBs having Door to door collection	States/UTs (Andhra Pradesh,	, -,
1		system	Assam, Chhattisgarh, Goa, Gujarat, Harvana, Kerala,	
			Machya Pradesh, Maharashtra, Manipur,	
1			Mizoram, Orissa, Punjab, Rajasthan, Tamil Nadu,	
of the passes			Tripura, Andaman and Nicobar Island, Chandigarh,	
権がある		-	Daman and Diu, Delhi, Lakshadweep & Puducherry)	
1	<u> </u>	Percentage of ULBs		Gujarat &
		transporting wastes in covered vehicles	1 	Rájasthan
		os resulting	Haryana, Kerala, Madhya	
1	,		Pradesh, Maharashtra, Manipur, Mizoram, Orissa,	
1			Punjab, Tamil Nadu, Tripura, Andaman and Nicobar Island,	
1			Chandigarh, Daman and Diu, Delhi, Lakshadweep &	
.,	} .		Puducherry)	



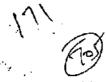
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Andaman and Nicobar Island, Chandigarh, Daman and Diu, Delhi & Puducherry) 13 Percentage of ULBs having Computerized weighing machine for weighing solid waste States/UTs (Andhra Pradesh, Assam, Chhattisgarh, Kerala, Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Andaman and Nicobar Island, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry 14 Percentage of ULBs having tipping fee based on quantum of waste generated/ processed Andaman and Nicobar Information provided by 17 States/UTs (Assam, Chhattisgarh, Haryana, Kerala, Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura,	:			
Island, Chandigarh, Daman and Diu, Delhi & Puducherry) Percentage of ULBs having Computerized weighing machine for weighing solid waste Information provided by 17 States/UTs (Andhra Pradesh, Kerala, Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Andaman and Nicobar Island, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry Percentage of ULBs having tipping fee based on quantum of waste generated/ processed Information provided by 17 States/UTs (Assam, Chattisgarh, Haryana, Kerala, Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Rajasthan & Rajas			Punjao, farm Nadu, Impura,	
and Diu, Delhi & Puducherry) 13 Percentage of ULBs having Computerized weighing machine for weighing solid waste 14 Percentage of ULBs having tipping fee based on quantum of waste generated/ processed 15 Percentage of ULBs having the processed and provided by 17 States/UTs (Andhra Pradesh, Charyana, Madhya Pradesh, Chartisgarh, Kerala, Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Andaman and Nicobar Island, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry 16 Percentage of ULBs having tipping fee based on quantum of waste generated/ processed 17 States/UTs (Assam, Chhattisgarh, Haryana, Kerala, Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Pradesh & Rajasthan	,			
Puducherry Percentage of ULBs having Computerized weighing machine for weighing solid waste Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Andaman and Nicobar Island, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry Percentage of ULBs having tipping fee based on quantum of waste generated/processed Puducherry Puducherry Goa; Gujarat, Haryana, Kerala, Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Andlura Pradesh, Goa, Gujarat, Madhya Pradesh, & Rajasthan Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Madhya Pradesh Rayana) Madhya Pradesh & Rajasthan Andlura Pradesh, Goa, Gujarat, Madhya Pradesh & Rajasthan Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura,			T -	
Percentage of ULBs having Computerized weighing solid waste Information provided by 17 States/UTs (Andhra Pradesh, Kerala, Machine for weighing solid waste Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Andaman and Nicobar Island, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry Percentage of ULBs having tipping fee based on quantum of waste generated/ processed Information provided by 17 States/UTs (Assam, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry Information provided by 17 States/UTs (Assam, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry Information provided by 17 States/UTs (Assam, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry Information provided by 17 States/UTs (Assam, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry Information provided by 17 States/UTs (Assam, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry Andhra Pradesh & Rajasthan & Rajasthan Machya Pradesh, Coa, Gujarat, Madhya Pradesh, Tamil Nadu, Tripura, Punjab, Tamil Nadu, Tripura, Pradesh, Tamil	i ' '			
Computerized weighing machine for weighing solid waste States/UTs (Andhra Pradesh, Assam, Chhattisgarh, Kerala, Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Andaman and Nicobar Island, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry 14 Percentage of ULBs having tipping fee based on quantum of waste generated/ processed Percentage of ULBs having tipping fee based on quantum of waste generated/ processed States/UTs (Andhra Pradesh, Haryana, Kajasthan Rajasthan Rajas			 	Gos: Guiarat:
machine for weighing solid waste Assam, Chhattisgarh, Kerala, Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Andaman and Nicobar Island, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry Percentage of ULBs having tipping fee based on quantum of waste generated/processed Information provided by 17 States/UTs (Assam, Chhattisgarh, Haryana, Kerala, Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Rajasthan	13		· · · · · · · · · · · · · · · · · · ·	
Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Andaman and Nicobar Island, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry 14 Percentage of ULBs having tipping fee based on quantum of waste generated/processed Information provided by 17 States/UTs (Assam, Chhattisgarh, Haryana, Kerala, Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Rajasthan Rajasthan Rajasthan Rajasthan				Fradesh &
Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Andaman and Nicobar Island, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry 14 Percentage of ULBs having tipping fee based on quantum of waste generated/ processed Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura,			· —	
Tamil Nadu, Tripura, Andaman and Nicobar Island, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry 14 Percentage of ULBs having tipping fee based on quantum of waste generated/ processed Information provided by 17 States/UTs (Assam, Chhattisgarh, Haryana, Kerala, Maharashtra, Madhya Pradesh & Rajasthan Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura,		waste		Trajabetari
Andaman and Nicobar Island, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry 14 Percentage of ULBs having tipping fee based on quantum of waste generated/ processed Island, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry Andhra Pradesh, Goa, Gujarat, Chhattisgarh, Haryana, Kerala, Maharashtra, Madhya Pradesh & Rajasthan Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura,	1		- I	
Island, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry 14 Percentage of ULBs having tipping fee based on quantum of waste generated/processed 15 Island, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry 16 Island, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry 17 Information provided by 17 States/UTs (Assam, Goa, Gujarat, Madhya Pradesh, Kerala, Maharashtra, Madhya Pradesh & Rajasthan Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura,	•			
and Diu, Delhi, Lakshadweep & Puducherry 14 Percentage of ULBs having tipping fee based on quantum of waste generated/ processed 15 Percentage of ULBs having tipping fee based on quantum of waste generated/ processed 16 Percentage of ULBs having tipping fee based on quantum of Waste generated/ Chhattisgarh, Haryana, Kerala, Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura,	. •		(=	
8 Puducherry 14 Percentage of ULBs having tipping fee based on quantum of waste generated/processed 15 Percentage of ULBs having tipping fee based on quantum of waste generated/processed 16 Puducherry 17 Andhra Pradesh, Goa, Gujarat, Madhya Pradesh, Kerala, Maharashtra, Madhya Pradesh, Kerala, Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura,		The second section is the second		
Percentage of ULBs having tipping fee based on quantum of waste generated/ processed Information provided by 17 States/UTs (Assam, Goa, Gujarat, Madhya Pradesh & Rajasthan & Rajasthan Punjab, Tamil Nadu, Tripura,	'·[
tipping fee based on quantum of waste generated/processed States/UTs (Assam, Chhattisgarh, Haryana, Kerala, Maharashtra, Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura,	- 3			1 10 °
of waste generated/ Chhattisgarh, Haryana, Madhya Pradesh processed Kerala, Maharashtra, & Rajasthan Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura,	14	Percentage of ULBs having	·	
processed Kerala, Maharashtra, & Rajasthan Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura,		tipping fee based on quantum	1	
Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura,		.		-, 1
Manipur, Mizoram, Orissa, Punjab, Tamil Nadu, Tripura,	1	processed	· ·	& Kajastnan
Punjab, Tamil Nadu, Tripura, Andaman and Nicobar	.		Manipur, Mizoram, Orissa,	
Andaman and Nicobar	1.		Punjab, Tamil Nadu, Tripura,	
	1		,	
Island, Chandigarh, Daman	Ľ		Island, Chandigarh, ,Daman	

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<u> </u>			<u> </u>	•
100	<u> </u>	Status of Informat	ion Provided by States/UTs (SI	VM)
c	Vo.	Items	Name of States/UTs which	h Name of
	.		have submitted information	States/UTs which
	#	•		have not
	[j:			Submitted
				information or
11	li.		a de la companya del companya de la companya del companya de la co	submitted partial
1	 	·	1	information
1.1			and Diu, Delhi, Lakshadweep	
1 T F			& Puducherry	
15	F	Percentage of ULBs having	Information provided by 17	Andhra Pradesh,
[.]	. ft	win-bin system installed at	States/UTs (Assam,	Goa, Gujarat,
'	P	public places	Chhattisgarh, Haryana,	Madhya Pradesh
	- []		Kerala, Maharashtra,	
		•	Manipur, Mizoram, Orissa,	& Rajasthan
		•	Funjab, Tamil Nadu, Tripura,	
	1		Andaman and Nicobar	
1			Island, Chandigarh, Daman	1
`} .			and Diu, Delhi, Lakshadweep	
		•	& Puducherry	
16	Pe	ercentage of ULBs having		
<i>[</i>]	tr	ansfer stations instead of	Information provided by 18 States/UTs (Assam,	Andhra Pradesh,
•	se	condary storage bins	Chhattagash Cas II	Gujarat, Madhya
	1 }	,	Chhattisgarh, Goa, <u>Haryana</u> , Kerala, Maharashtra,	Pradesh &
			Manipur Mizorom Orios	Rajasthan
;			Manipur, Mizoram, Orissa,	
		·	Punjab, Tamil Nadu, Tripura, Andaman and Nicobar	
Ì	- [·	Jeland Chandianal D	
	. [Island, Chandigarh, Daman	
	1		and Diu, Delhi, Lakshadweep & Puducherry	
7	Pe	rcentage of ULBs in which	Information provided by 17	4 17 19 4
1	PP	E has been provided to	States/UTs (Assam,	Andhra Pradesh,
	wo	orkers	Chhattisgarh, Haryana,	Goa, Gujarat,
		· ·	Kerala, Maharashtra,	Madhya Pradesh
1		1	Manipur, Mizoram, Orissa,	& Rajasthan
-			Punjab, Tamii Nadu, Tripura,	
·\·.		· · [·	Andaman and Nicobar	
' [Island, Chandigarh, Daman	
1.	1		and Diu, Delhi, Lakshadweep	
	;	;	& Puducherry	
8 [Per			
-	Car	13. 1 45.66	O	Andhra Pradesh,
İ	boo	70 4 4		Gujarat, Madhya
	Stat		re. 1 2 c 1	Pradesh &
Ì	,	_	Kerala, Maharashtra,	Rajasthan
	;		Manipur, Mizoram, Orissa,	
- 		<u></u>	Punjab, Tamil Nadu, Tripura,	

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- 1	Status of Information	n Provided by States/UTs (SWM	<u>1) </u>
S.No.	Items	Name of States/UTs which	Name
510.		have submitted information	States/UTs which
			have not
			Submitted
• ,			information or
			submitted partial
			information
		Andaman and Nicobar	
		Island, Chandigarh, Daman	
		and Diu, Delhi, Lakshadweep	
5.		& Puducherry	1
<u> </u>	C THE Post Side and	Information provided by 17	Goa, Gujarat,
19	Percentage of ULBs in which	states (Andhra Pradesh,	Madhya Pradesh,
	workers have been educated		Mizoram &
	on Door to door collection of	Assam, Chhattisgarh,	Rajasthan
	waste	Haryana, Kerala,	Majasman
		Maharashtra, Manipur,	
		Orissa, Punjab, Tamil Nadu,	
		Tripura, Andaman and	
v godina		Nicobar Island, Chandigarh,	l log or a regar
		Daman and Diu, Delhi,	21
		Lakshadweep & Puducherry	1 1 1 1 1 1 1
20 ·	Percentage of ULBs in which	Information provided by 18	Goa, Gujarat, por
	Training has been imparted		Madhya Pradesh
1	to waste pickers/waste		& Rajasthan
	collectors	Haryana, Kerala,	
	confectors	Maharashtra, Manipur,	
		Mizoram, Orissa, Punjab,	1 12 12 140
		Tamil Nadu, Tripura,	
		Andaman and Nicobar	1 6
		Island, Chandigarh, Daman	
.		and Diu, Delhi, Lakshadweep	
, i		& Puducherry	
			Andhra Pradesh,
21	Percentage of ULBs having		Gujarat, Madhye
	separate Street sweepings	States/UTs (Assam,	Pradesh &
' -	collection and disposal	Chhattisgarh, Goa, Haryana,	Mizoram
	system	Kerala, Maharashtra,	TYTEOTATT
' .		Manipur, Orissa, Punjab,	
		Rajasthan, Tamil Nadu,	
· .		Tripura, Andaman and	十二十十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十
1 -		Nicobar Island, Chandigarh,	4
1		Daman and Diu, Delhi,	1.80
		Lakshadweep & Puducherry	
22	Percentage of ULBs in which	Information provided by 18	Gujarat, Madhya
1	Segregation of waste a	1	, Pradesh, Mizorar
1.	Degregation of Water a	Assam, Chhattisgarh, Goa	
		7 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	1

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	<u> </u>	<u> </u>	<u></u>	
	r l		n Provided by States/UTs (SW)	M):
	S.No.	Ifems	Name of States/UTs which	Name of
Ť	4.	1.	have submitted information	States/UTs which
ľ	Ϊ.			have not
3				Submitted
	4 1			information or
: 6	4			submitted partial
ŀ	1			information
	<u>.</u>	household level/source has		. ·
	: [been implemented	Maharashtra, Manipur,	• • • • • •
١,	4.	,	Orissa, Punjab, Tamil Nadu,	
			Tripura, Andaman and	
	}		Nicobar Island, Chandigarh,	
ij			Daman and Diu, Delhi,	
J	<u>;</u>		Lakshadweep & Puducherry	
Ĺ	1		displayed on ULB's website	
	23.	Percentage of ULBs in which	Information provided by 14	Andhra Pradesh,
	1	waste Segregation by street	States/UTs (Assam,	Goa, Gujarat,
1	'}	vendors has been	Chhattisgarh, Kerala,	(Haryana) Madhya
	:	implemented.	Maharashtra, Manipur,	Pradesh,
1	4		Orissa, Tamil Nadu, Tripura,	Mizoram, Punjab
1	3	,	Andaman and Nicobar	& Rajasthan
	#		Island, Chandigarh, Daman	
	<u> </u>		and Diu, Delhi, Lakshadweep	
·L		1	& Puducherry	
	24	Percentage of ULBs in which	Information provided by 19	Gujarat, Mizoram
8	¥ - :	Segregation of waste by	States/UTs (Andhra Pradesh,	& Rajasthan
		RWAs, market associations,	Assam, Chhattisgarh, Goa,	
	*	gated communities,	Haryana, Kerala, Madhya	_ · · • •
1.	·	institutions (> 5000 sqm area),	Pradesh, Maharashtra,	
5		hotels, restaurants etc has		
生.	<u>i</u> }	been implemented	Tamil Nadu, Tripura,	
į.	3.		Andaman and Nicobar	
1.			Island, Chandigarh, Daman and Diu, Delhi, Lakshadweep	
土			& Puducherry)	
-	25	Possontago of TII Pa in tubish	Information provided by 20	Chandigarh &
1.	·	Percentage of ULBs in which Segregation of Waste at	States/UTs (Andhra Pradesh,	Rajasthan
	1	source for inerts and C&D	Assam, Chhattisgarh, Goa.	
		Waste has been implemented	Gujarat, Haryana, Kerala,	
ŀ		vvaste has been implemented	Madhya Pradesh,	
			Maharashira, Manipur,	
]		Mizoram, Orissa, Punjab,	
)		Tamil Nadu, Tripura,	
\cdot	.	•	Andaman and Nicobar	
.		•	Island, Daman and Diu,	
	<u>: </u>	_ ÷	IDIAINI DAMINI AND DIN	





		·			
· ·		on Provided by States/UTs (SW		100	7
S.No.	Items	Name of States/UTs which	Name !	of	
· · ·		have submitted information	States/C	Ts which	1
		1	have	not	
			Submit	ed.	
			informa	tion or	١, .
			submitt	ed partial	
			informa		
		Delhi, Lakshadweep &		1	704
		Puducherry)			
26	Percentage of ULBs in which	Information provided by 18	Andhra	Pradesh:	
	informal sector of waste		Goa, Gu	1111 7 3 3	
	pickers, waste collectors and		Rajastha	(1) (2)	1
	recycling industry in	· · · · · · · · · · · · · · · · · · ·	- Tungasum		
	reducing waste in state policy		;		75
	has been engaged	Mizoram, Orissa, Punjab,			7
. 1	ind Sectivetigages	Tamil Nadu, Tripura,			: : «à
.		Andaman and Nicobar		1	· 🕍
					1
·		Island, Chandigarh, Daman			
1.1		and Diu, Delhi, Lakshadweep			dir.
		& Puducherry)		74.7	
	Percentage of ULBs in which	Information provided by 18	Andhra.		
	Space for SW segregation,	States/UTs (Assam,	Gujarat (Haryana	
	storage and processing of	Chhattisgarh, Goa, Kerala,	& Madhy	7a	
	solid waste for 200 units /	Maharashtra, Manipur,	Pradesh	of the chain	掛
	5000 square has been	Mizoram, Orissa, Punjab,		A Comment	
· . [;	allocated ,	Rajasthan, Tamil Nadu,			्राच्या
		Tripura, Andaman and			
. ' :		Nicobar Island, Chandigarh,			1.4
		Daman and Diu, Delhi,	' +	7	1.5
		Lakshadweep & Puducherry)	•	46,000	li es
8	Percentage of ULBs in which	Information provided by 17	Andhra I	radesh	1 40
	Scheme for registration of	States/UTs (Assam,	Goa, Guj		
	waste pickers and dealers has	Chhattisgarh, Haryana,	Madhya :		\$
	been implemented	Kerala, Maharashtra,	& Rajastl		
- T		Manipur, Mizoram, Orlssa,	e rajasu		*
		Punjab, Tamil Nadu, Tripura,	į		e
	Programme and the second	Andaman and Nicobar	.]		
		Island, Chandigarh, Daman	1		
	.,	and Diu, Deihi &		1	
		•			
9 1	Paramiara of III Rada andida	Lakshadweep & Puducherry)	D-1 (2)	14.11.19	
. 1 -	Percentage of ULBs in which	Information provided by 21	Rajasthar	His Facility	
	and has been identified for	States/UTs (Andhra Pradesh,			
	setting up waste processing.	Assam, Goa, Gujrat,	ا:	那四周	
Į.Ē	acilities (22 (1))	Chhattisgarh, <u>Harvan</u> a,			j.4[4]
		Kerala, Madhya Pradesh,	ļ	7.331	2.5



S.No.	. Items	ion Provided by States/UTs (SW Name of States/UTs which	Name o
		have submitted information	States/UTs which
	.		have no
•			Submitted
			information or
			submitted partial
			information
		Maharashtra, Manipur,	
		Mizoram, Orissa, Punjab,	
•		Tamil Nadu, Tripura,	
•		Andaman and Nicobar	
	,	Island, Chandigarh, Daman	
		and Diu, Delhi, Lakshadweep	
		& Puducherry)	<u>'</u>
			' .
	Percentage of ULBs in which		Andhra Pradesh,
	non-biodegradable waste and	States/UTs (Assam,	Chandigarh, Goa,
	inert waste are used for filling	Chhattisgarh, Kerala,	Gujarat Haryana,
	up of construction areas and	Maharashtra, Manipur,	Madhya Pradesh,
	construction of roads	Orissa, Punjab, Tamil Nadu,	Mizoram &
- 1	·	Tripura, Andaman and	Rajasthan,
		Nicobar Island, Daman and	
		Diu, Delhi, Lakshadweep &	
		Puducherry)	
∸┤			
- 4	Percentage of ULBs in which		Andhra Pradesh,
\cdot	Usage of RDF by Cement		Gujarat, Madhya
}	plants /Power	Chhattisgarh, Goa, Haryana,	Pradesh &
,]	plants/Industries located	Kerala, Maharashtra,	Rajasthan
	within 200 km of such facility		
- 1	has been implemented	Punjab, Tamil Nadu, Tripura,	
		Andaman and Nicobar	
		Island, Chandigarh, Daman	
	į .	and Diu, Delhi, Lakshadweep	
- -	Percentage of ULBs in which	& Puducherry)	
	ا ا	Information provided by 19 States (Arrests	Andhra Pradesh,
			Madhya Pradesh
	centralized composting has been initiated		& Rajasthan
	ocen minaish	Haryana, Kerala,	
		Maharashtra, Manipur,	
}	·	Mizoram, Orissa, Punjab,	
		Tamil Nadu, Tripura, Andaman and Nicobar	
- 1		Angaman and Nicobar	

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Status of Information Provided by States/UTs (SWM) S.No. Items Name of States/UTs which have submitted information and Diu, Delhi, Lakshadweep & Puducherry) 33 Percentage of ULBs in which Storage of Horticulture waste on generators own premises has been initiated Assam, Chhattisgarh, Haryana, Kerala, Maharashtra, Manipur, Orissa, Punjab, Tamil Nadu, Tripura, Andaman and Nicobar Island, Chandigarh, Daman and Diu, Delhi, Lakshadweep & Puducherry) 34 Percentage ULBs in which setting up of solid waste and processing facilities has been incorporated in Master Plan of the city 35 Percentage of ULBs in which setting up of solid waste and processing facilities has been incorporated in Master Plan of the city 36 Percentage of ULBs in which setting up of solid waste and processing facilities has been incorporated in Master Plan of the city 36 Percentage of ULBs in which setting up of solid waste and processing facilities has been incorporated in Master Plan of the city 37 Percentage of ULBs in which setting up of solid waste and processing facilities has been incorporated in Master Plan of the city 38 Percentage of ULBs in which setting up of solid waste and processing facilities has been incorporated in Master Plan of the city Andhya Pranting provided by 15 States/UTs (Assam, Chhattisgarh, Daman and Diu, Delhi, Lakshadweep & Real and Diu, Delhi, Lakshadwe	
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Nicobar Island, , Daman and	
Diu, Delhi, Lakshadweep &	14
Puducherry)	
	
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sorting of recyclables by Assam, Chhattisgarh, Gujarat	्रवर् <i>स</i>
informal sector have been set , Goa, Haryana, Kerala,	gariti
up Madhya Pradesh,	
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Mizoram, Orissa, Punjab,	
Tamil Nadu, Tripura,	

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		processe	ed in biomethanation		Kerala, Maharashtra, Madhya		Rajasthan
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	1		Patenger Off	1,	Chhattisgarh, Haryana,	M	ladhya Pradesh
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				T	Manipur, Mizoram, Orissa,	. ["	
٠	.	ļ		15	unjab, Tamil Nadu, Tripura,	ſ	
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	E	nergy/R	DF ·	Į A	ssam, Chhattisgarh, 'Goa,'		jasthan
	1	<u>;</u>	•	√ G	ujarat, Haryana, Kerala,	Maj	lagman
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		:		Pr	adesh, Manipur, Mizoram,		
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· 		Name of States/UTS WILLI	Mamie	of
S.No.	ltems	have submitted information	States/UTs v	vhich
			have :	not
		1	Submitted	
1		·	information	or
`•'.			submitted p	
. •			information	
, \		No. No.	THE CALL STREET	
		Maharashtra, Madhya	1	,
		Pradesh , Manipur, Orissa,	!	,
		Punjab, Rajasthan, Tamil		
, ''∙{		Nadu, Tripura, Andaman and		į
		Nicobar Island, Chandigarh,		
		Daman and Diu, Delhi,		
, ,		Lakshadweep & Puducherry)		<u> </u>
	(7 T D 1		Lakshadwe	p,
41	Percentage of ULBs in which		Gujarat &	<u> </u>
	Biodegradable waste is sent		Mizoram	<i>!</i>
	to compost/biomethanation			
	plant	Haryana, Nerala,		:
		Maharashtra, Madhya		<u></u>
		Pradesh Manipur,, Orissa,		
: .		Punjab, Rajasthan, Tamil		
', · .		Nadu, Tripura, Andaman and		}, <i>,</i> , <i>,</i>
		Nicobar Island, Chandigarh,		
		Daman and Diu, Delhi &	1	ĺ
Ĭ .,		Puducherry)	<u> </u>	<u> -</u>
<u> </u>	CTT De in subject		Gujarat &	
42	Percentage of ULBs in which		Rajasthan	
\. ·	non-biodegradable wastes i		1 1	[: '
1 .	sent to MRF/ Secondar	y, Assair, Citiating Madhya		
1.	storage facility	Haryana, Kerala, Madhya		
		Pradesh, Maharashtra,]	· ·
1.:		Manipur, Mizoram, Orissa,		
1		Punjab, Tamil Nadu, Tripura,	1	12 3
	$A(t) \in A(t) \setminus A(t) \setminus A(t)$	Andaman and Nicobar		
		Island, Chandigarh, Daman		1
`\.\.		and Diu, Delhi, Lakshadweer		
		& Puducherry)		j.
				<u>}.</u>
<u> </u>	D to a C. W. to H. nlan	ts Information provided by 17	Andaman	
43	Percentage of W to E plan	or States/UTs (Assam,	Nicobar Is	land,
			Andhra P	rades
1	segregation of waste prior		Gujarat, N	/ladhy
1.	processing of waste in W to	K i Ketala, Mananama	Pradesh &	
: [·	Plants	Manibur, Mizorari, Ottoba	1	1
: •		Punjab, Tamil Nadu, Tripura]:
.	1.0	Chandigarh, Daman and Dit	ليا إلىا 	!



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-	Status of	Information Provided by States/UTs (5	7177 6
S.	No. Items	Name of States/UTs whi	(VY (VI)
		have submitted information	
1		att e submitted informatio	
			have n
1] [Submitted
			information
1	` •		submitted parti
	. 1		information
		Delhi, Lakshadweep &	<u> </u>
44		Puducherry)	
41	Percentage incre	ease in <u>Information provided by 16</u>	
	number of Auth	orizations States/UTs (Assam	Andhra Pradesh,
	granted	——————————————————————————————————————	Goa, Gujarat,
	i i	Chhattisgarh, Kerala,	Haryana, Madhya
	 	Maharashtra, Manipur,	Pradesh &
	1	Mizoram, Orissa, Puniah	Rajasthan
1 1.	 	Tamil Nadu, Tripura,	
		Andaman and Nicobar	•
		Island, Chandigarh, Daman	
		and Diu, Delhi, Lakshadweep	
		& Puducherry)	
5	Percentage of	ULBs Information provided to do	
	displaying data rel	- 1 ==== Tringgoot browned by 13	Andhra Pradesh,
•	functioning of plant		Chandigarh ,Goa,
	adherence to pr		Gujarat, Madhya
	1 1 1 1 1 1	escribed Kerala, Maharashtra	Pradesh, Orissa,
	parameters display ULB's website	ed on Manipur, Mizoram, Tripura	Punjab, Tamil
	OLD a Website	Andaman and Nicobar	Made 4
·		Island, Daman and Diu;	Nadu &
] {	Delhi, Lakshadweep &	Rajasthan
		Dan I	
	Percentage of ULBs in	Turbials T. C.	
	land has been identif		Gujarat &
	landfill site (11 f)		Rajasthan
		Assam, Chhattisgarh, Goa,	
		Haryana, Kerala, Madhya	· · · · · · · · · · · · · · · · · · ·
J		Pradesh, Maharashtra,	
- !		Manipur, Mizoram, Orissa;	
-	!	Punjab, Tamil Nadu, Trimira	
-	'	Andaman and Nicobar	
- 1	: :	Island, Chandigarh, Daman	. 1
	i	and Diu, Delhi, Lakshadweep	
 ∔	<u>:</u>	AT (CITATION COLUMN)	
}	Percentage of ULBs in	Which Information 12	
.	land has been allocate	d for States (CP)	Gujarat, Kerala & 🧢
	landfill site (Rule 12a)	The state of the s	ajasthan .
	(-1000 120)	Assam, Chhattisgarh, Goa	
		riaryana, Madhya Pradesh	
	:	Mehorachius M.	· •
	İ	Maharashtra, Manipur, Mizoram; Orissa, Punjab,	

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	Status of Information	n Provided by States/UTs (SWN	2)
NT.	1	Name of States/UTS which	Mante
No.	Items	have submitted information	States/UTs which
٠ , ا			have not
		ļ.	Submitted
			information or
			submitted partial
			information
		Tamil Nadu, Tripura,	
. 1	# 1 m	Andaman and Nicobar	
• •		Amuaman and tylcosar	
		Island, Chandigarh, Daman	
٠		and Diu, Delhi, Lakshadweep	
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	& Puducherry)	Gujarat, Kerala,
8	Percentage of ULBs having	Information provided by 16	Talahadayaan
,	own /regional operational	States/UTs (Andhra Pradesh,	Lakshadweep,
· . ·	Landfill sites	Assam, Chhattisgarh, Goa,	Madhya Pradesh
``'	Laikum Sico	Harvana, Maharashtra,	Orissa &
		Manipur, Mizoram, Punjab,	Rajasthan
٠.,٠		Tamil Nadu, Tripura,	
•		Andaman and Nicobar	
		Island, Chandigarh, Daman	
of a to		and Diu, Delhi &	
		Puducherry)	1
	1		Andhra Pradesh,
49	Percentage of landfill sites in		Goa, Gujarat,
· · · ·	which Provision of Green Bel	t States/O18 (1850m)	Madhya Pradesh
	/Buffer Zone around landhi	I (Chnathegain, market	& Rajasthan
1	site has been made	Kerala: Managama	C. Linguis
, •		Manipur, Mizoram, Orissa,	
. 1		Punjab, Tamil Nadu, Tripura,	
•		Andaman and Nicobar	
•		Island, Chandigarh, Daman	
		and Diu, Delhi, Lakshadweep)
		& Puducherry)	
<u> </u>	Tandfil sit	Information provided by 17	Andhra Pradesh,
50.	Percentage of Landfill site	1	Goa, Gularay,
	for which Buffer zone h	Chhattisgarh, Haryana,	Madhya Pradesh
\	been notified	Kerala, Maharashtra,	& Rajasthan
		Manipur, Mizoram, Orissa,	
		Punjab, Tamil Nadu, Tripura	a,
1 .		Andaman and Nicobar	
1.		Andaman and recommend	
1		Island, Chandigarh, Daman	
		and Diu, Delhi, Lakshadwee	T
'		& Puducherry)	Andhra Pradesh,
	Percentage of landfill sites	in Information provided by 1	
51	which efforts have been tal		Goa, Gujarat,
Ι,	Which emores have been to	Chhattisgarh, Haryana,	



;	_	· 			<u> </u>
L ,	<u>_</u>		Status of Informati	on Provided by States/UTs (SW	/M)
	S	No.	Items	Name of States/UTs which have submitted information	Name of States/UTs which
					have not
	,		1		Submitted
	'				information or
			**************************************		submitted partial
					information
			to prevent/inanage	Kerala, Maharashtra,	Madhya Pradesh
Ī	•		generation of leachate	Manipur, Mizoram, Orissa,	& Rajasthan
. '	٠			Punjab, Tamil Nadu, Tripura,	
	٠,		•	Andaman and Nicobar	
Ы	·			Island, Chandigath, Daman	
				and Diu, Delhi, Lakshadweep	
			<u> </u>	& Puducherry)	
7	52		Percentage of landfill sites in		Andhra Pradesh,
ो			which efforts have been taken	States/UTs (Assam,	Goa, Gujarat,
45			to prevent /manage	Chhattisgarh, Haryana,	Madhya Pradesh,
1	٠. ٠		generation of methane gas	Kerala, Maharashtra,	Rajasthan
4	,		7	Manipur, Mizoram, Orissa,	Lagastian
Т	;;	-		Punjab, Tamil Nadu, Tripura,	
1			• • •	Andaman and Nicobar	
4				Island, Chandigarh, Daman	
	,		·	and Diu, Delhi, Lakshadweep	
'L			•	& Puducherry)	
١,	53		Percentage of	Information provided by 16	Andhra Pradesh,
1	٠.		landfill/dumpsites in which	States/UTs (Assam,	Goa, Gujarat,
ļ			CCTV has been installed	Chhattisgarh, Haryana,	Madhya Pradesh,
1	'n			Kerala, Maharashtra,	Mizoram,
1			`.	Manipur, Orissa, Punjab,	Rajasthan
:	. ;			Tamil Nadu, Tripura,	rajastiait
1.			,	Andaman and Nicobar	
Ŋ.	٠.,			Island, Chandigarh, Daman	
ı				and Diu, Delhi, Lakshadweep	
L	_		:	& Puducherry)	
5	4	1	Percentage of ULBs having	Information provided by 18	Andhra Pradesh,
-	•	I	Decentralized waste disposal	ter to be a second of the seco	Goa, Gujarat,
	•	f	acilities	and the same of th	Rajasthan
				Kerala, Madhya Pradesh	
	٠,		,	Maharashtra, Manipur,	
	•		1	Mizoram, Orissa, Punjab,	
				Tamil Nadu, Tripura,	'``
				Andaman and Nicobar	
	•			Island, Chandigarh, Daman	
				and Diu, Delhi, Lakshadweep	
				& Puducherry)	
_			:		

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•	Status of Informatio	n Provided by States/UTs (SWI	vn :
S.No.	Items	Name of States/UTs which	
1		have submitted information	States/UTs which
			have not
		: '	Submitted
		<u>'</u>	information or
•		` · ·	submitted partial
4			information
55 .	Percentage of landfill sites in	Information provided by 17	Goa, Gujarat,
	which landfilling or dumping	States/UTs (Andhra Pradesh,	Haryana Madhya
	of mixed waste is continued.	Assam, Chhattisgarh, Kerala,	Pradésh,
•		Maharashtra, Manipur,	Rajasthan
•		Mizoram, Orissa, Punjab,	
		Tamil Nadu, Tripura,	
		Andaman and Nicobar	
		Island, Chandigarh, Daman	
		and Diu, Delhi, Lakshadweep	
		& Puducherry)	
56	Percentage of landfill sites in	Information provided by 16	Andhrai Pradesh,
,	which only non-usable, non-	States (Assam, Chhattisgarh,	Goa, Gujarat,
• .	recyclable, non-	Haryana, Kerala,	Madhya Pradesh
•	biodegradable, non-	Maharashtra, Manipur,	Mizoram &
	combustible and non-reactive	Orissa, Punjab, Tamil Nadu,	Rajasthan 31 **
` "	waste is disposed	Tripura, Andaman and	
	waste is disposed	Nicobar Island, Chandigarh,	
		Daman and Diu, Delhi,	
1.		Lakshadweep & Puducherry)	
57	Descents on of III De la lastalista	Information provided by 21	Lakshadweep
	Percentage of ULBs in which	states (Andhra Pradesh,	ravoriari Meeh
	Investigation of old, /existing	· ——- •	l is it.
•••	dumpsites for bio-mining has	Assam, Chhattisgarh, Goa, Gujarat, Hary <u>ana,</u> Kerala,	
١,	been initiated		
100		Madhya Pradesh, Maharashtra, Manipur,	
		Mizoram, Orissa, Funjab,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Rajasthan, Tamil Nadu,	
· .	The second section of	Tripura, Andaman and	-53
	Level in the second	Nicobar Island, Chandigarh,	
		Daman and Diu, Delhi &	
'		Puducherry)	
58	Percentage of JURs which	Information provided by 20	Goa & Madhya
,	have framed Byelaws		Pradesh
·			I IAUCSIL
	incorporating User fees and	, Assain, Cillatusgarii,	
	spot fines for littering	Gujarat , <u>Harvana</u> , Kerala,	
	The second of the second of the	Maharashtra, Manipur,	
•• '		Mizoram, Orissa, Punjab,	
٠.	<u> </u>	Rajasthan, Tamil Nadu,	11:

•	<u> </u>		. · · -	Chicken - C.Y. d		
-	9	.No.	Ite	status of Informat	ion Provided by States/UTs (SV	VM)
		1210,	1 110		Name of States/UTs which	i Name of
,	. }		-		have submitted information	
ا ،	ż					have not
Ì]			Submitted
-	ĺ		.			information or
Ĺ	! <u>'</u>	•		•		submitted partial
ſ	Ī		1		Tripura, Andaman and	information
١.						
					Nicobar Island, Chandigarh, ,Daman and Diu, Delhi,	
1	1				Lakshadweep & Puducherry)	
Γ	59		Perc	entage of ULBs having	Information provided by 17	
i	ļ		Cittz	zen Grievance redressel	States/UTs (Assam,	Andhra Pradesh,
	- {		med	hanism	Chhattisgarh, Haryana,	Goa, Gujarat,
- [-	إد ً		1		Kerala, Maharashtra,	Madhya Pradesh
1				•	Manipur, Mizoram, Orissa,	& Rajasihan
1.	.		. [.		Punjab, Tamil Nadu, Tripura,	
	1	[Andaman and Nicobar	
	- 1	ſ	1		Island, Chandigarh, Daman	
1		- 1		;	and Diu, Delhi, Lakshadweep	
L	_			<u> </u>	& Puducherry)	
6	O			entage of ULBs	Information provided by 16	Andhra Pradesh,
ļ	•		uploa	ading Month wise details	States/UTs (Assam,	Goa, Gujarat,
١.		- 1	of SW	VM targets on MIS	Chhattisgarh, Haryana,	Madhya Pradesh,
		-		•	Kerala, Maharashtra,	Mizoram &
	1	-		• •	Manipur, Orissa, Punjab,	Rajasthan
•			į		Tamil Nadu, Tripura,	
,	Í			,	Andaman and Nicobar	
	,			·.	Island, Chandigarh, Daman	
-	4		į		and Diu, Delhi, Lakshadween	
	- <u>{</u>	L	- :	<u></u>	& Puducherry)	

The information provided by the States/UTs has been further analysed for nine key parameters of Solid Waste parameters. State wise performance of the States/UTs against these nine key parameters is given in table below:

				Perforn	iance (of States	/UTs (SWM)					
S. N	Item	Laksha dweep	Chandi garh	Daman & Diu	Del hi	Trip ura	Assa	Odis ha	Kera la	Maharas htra	Tamil Nadu	Puduch erry	Chandi garh
1	Percentage of ULBs which have	G	G	G	G	G	G	G	G ·	G	G	G	G.
	submitted Annual Report in Form IV to Secy, UD and SPCB		_										
2	Percentage of ULBs. in which user fees has been	P	G	G	G	G	AV	G	No info	G	G. ;	G	G
	incorporated in Byelaws			,					<u>:</u>				
3	Percentage of ULBs having Door to door collection system	P	G	G	AV	G	AV	G	G	G	G	G	G
4	Percentage of ULBs using Compartmentalized vehicles for	No Info	G	G ·	P	P	P	P	P	G	G _.	P	G .
	collection of different fractions of waste		/ 1. TER) B Book (48	(0/) 3	In York	No luc			1:-6			

G-Good (>75%), Av-Average(>50% upto 75%), P-Poor (<50%), No Info-No information/Partial information



S. N o.	Item	Laksha dweep	Chandi gath	Daman & Din	Del ki	Trip ura	Assa m	Odis ha	Kera la	Maharas hira	Tamil Nadu	Puduch	Chand garh
5	Percentage of ULBs in which Segregation of waste at household level/source has	P	G	G	P .	G	P	G	G	G	No Info	P	G
,	Percentage of ULBs in which material recovery facilities for sorting of recyclables	G	G	G	P	P	ĀV	ĀV	AV	G	P	G	P
	by informal sector have been set up. Percentage of ULBs	No	G	G	P	P	P	ĀV	G	G			· •
	Biodegradable waste is sent to compost/biomethan	Info									G	G.	G
-	having own /regional	No Info	G:	G	P	G	' '		Na info	AV	3	G	G
- [operational Landfill sites ood (>75 %) , Av-Avera		·		-	. : .		-			,		

<u>. </u>		 -		Perforn	ance	of States	/UTs ((MW					
S. N	Item	Laksha dweep	Chandi garh	Daman & Diu	Del hi	Trip tura	Assa m	Odis ha	Kera Ia	Maharas htra	Tamil Nadu	Puduch erry	Chandi garh
9	Percentage of ULBs	No . Info	G	G	G	P	P	G	P	AV	ĀV	G [*]	G
	in which Investigation of old /existing dumpsites				, ,		-						
	for bio-mining has			() 5 5 (4)	- 	No Tofo	Noin	formatic	on/Parti	al informat	ion		<u> </u>
G-	been initiated Good (>75 %) , Av-Ave	rage(>50	% upto 75%	6), P-Poor (<	2070), I	NO TITO	- 140 110	······································	724 7222				;

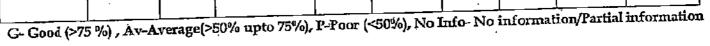




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S. No.	Item.	Andaman& Nicóbar	Andhra Pradesh	Goa	Madhya Pradesh	Gujar at	Mizora m	Harya na	Mani pur	Punjab	Rajasth:
1	Percentage of ULBs which have submitted Annual Report in Form IV to Secy, UD and SPCB	G	No Info	G	No Info	No Info	G	G	ĀV	G	G
2	Percentage of ULBs in which user fees has been incorporated in Byelaws	G	AV	No Info	No Info	No Info	G	G	P	AV	No Info
3	Percentage of ULBs having Door to door collection system	G	G	G	G	G	G	G	G	G	G
1	Percentage of ULBs using Compartmentalized vehicles for collection of different fractions of waste	AV	No Info	No Info	No Info	No Info	G	<u>No</u> Info	ĀV	G	No Info

3+ h		1									NIA INTO I
. ""		No Info	G	G.	No Info	- G	Partial	G -	- G	. G	No Into
5	Percentage of ULBs in	Ио што					Info		:]		
1: : '	which Segregation of waste			• • •			.,,,				
	at household level/source										
1	has been implemented		<u> </u>			G	G	P.	P	AV	No Info
6	Percentage of ULBs in	G	AV	G	AV		Y . 1	· •		, · · "	
* .	which material recovery	- ' - '		· .		-					
1 .	facilities for sorting of							· •	· 3/ -	* * * * * * * * * * * * * * * * * * * *	
	recyclables by informal					ار			· . • • •		
.	sector have been set up				<u>- ', </u>		. No Info	 -	P .	G	Av
7	Percentage of ULBs in	· AV	AV	G	AV	No	Nomio				
1.1.	which Biodegradable waste					Info		ان بر یا		=	l
	is sent to		ļ	٠.		1]				1
	compost/biomethanation				1						1
								<u> </u>	AV	- P	No Info
	plant State of State Re having	G	P	Partial	G	no	Partial	P	Αν	·	
8	Percentage of ULBs having			-Info		Info	Info .	1 6		1 -	
	own /regional operational	,	1							 	
	Landfill sites	 		G	- AV	Partial	Partial	TP ·	P	1 P	P
9	Percentage of ULBs in	G	F			info	Info	9	1 -	1 .	. [
- }	which Investigation of old	1		\ ·	1	·	1		!	1	1
	/existing dumpsites for bio-		. .			1	1		1	· ·	
}	mining has been initiated		<u></u>		<u> </u>			Tenfo Nic	informa	tion/Partia	l information







(122)

Based on the above assessment, overall performance of the States/UTs against these nine parameters is given in the table below

OVERALL PERFORMANCE OF STATES/UTs (SWM)

•			,									
-	S.No.		Important Items	Number of States in the Specified Category								
				Good	Average	Pòor	Submitted No /Partial Information					
5,112			Percentage of ULBs which have submitted Annual Report in Form IV to Secy, UD and SPCB	18	1	0.	3					
		2	Percentage of ULBs in which user fees has been incorporated in Byelaws	.12	3	2	5					
	7	3	Percentage of ULBs having Door to door collection system	19	2	1	0					
	Part of the second seco	4	Percentage of ULBs using Compartmentalized vehicles for collection of different fractions of waste	7	2	6	7					
		5	Percentage of ULBs in which Segregation of waste at household level/source has been implemented	13	0	4	5					
		б	Percentage of ULBs in which material recovery facilities for sorting of recyclables by informal sector have been set up	9	6	6	1.					
,,,,,		7	Percentage of ULBs in which Biodegradable waste is sent to compost/biomethanation plant	9	5	5	3.					
ر رود دار		8	Percentage of ULBs having own /regional operational Landfill sites	8	2	. 45	7					
- 1	The state of the s	9	Percentage of ULBs in which Investigation of old /existing dumpsites for bio-mining has been initiated	8	3 1)	8	3					

CPCB's observations based on the above assessment are as given below:

- i. Initiatives have been taken by States/UTs for compliance of Solid Waste Management Rules, 2016.
- As per the assessment of information provided by the States/UTs, it is observed that although performance of most States/UTs is in good category as per as door-to-door collection of waste is concern, it decreases progressively as solid waste management moves from collection to segregation to processing to final disposal in that order.
- iii. Compliance by maximum States/UTs was found inadequate on following parameters.
 - a. Imposition of User fees;
 - b. Segregation of Waste at source
 - c. Using comparimentalized vehicles for collection of different fractions of waste.
 - d. Setting up of Material recovery facilities for sorting of recyclables; by informal sector
 - e. Waste processing.
 - f. Investigation of old/existing dumpsites for bio-mining.
 - g. Information on engagement & training of informal sector consisting of waste pickers, waste collectors and recycling industry in waste management.
 - h. Prevention/management of leachate and methane gas generation from land fill site.
 - CCTV installation at dumpsite.

3.1.3 Recommendations:

- Segregation of waste at source, using compartmentalized vehicles for collection of different fractions of waste, processing of waste, Bio-mining of legacy waste and scheme for engagement of informal sector in Solid Waste management needs further strengthening
- ii. The states/UTs require to specify the time line for implementation of their action plan
- iii. In compliance with NGT's Directions dated March 06, 2019 in OA No. 606/2018, CPCB has developed an online portal for to monitor compliance of States/Uts w.r.t provisions of SWM Rules and uploaded on SPCB Sanyojan' on CPCB website. Only 8 States/UTs (Goa, Himachal Pradesh, Meghalaya, Mizoram, Kerala, Puducherry, Sikkim and West Bengal have uploaded their information so far All States/UTs are required to submit their compliance report quarterly on the said portal.

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3.2 Sewage Management

3.2.1 Information Status:

Total 22 no. of States and UTs (Andhra Pradesh, Andaman & Nicobar, Assam, Chandigarh, Chhattisgarh, Dadar and Nagar Haveli, Damar and Diu, Delhi, Goa, Gujarat, Haryana, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Mizoram, Orissa, Pondicherry, Rajasthan, Tamil Nadu, Tripura) have provided the reports to CPCB as required. State-wise information received for Sewage Management is attached as Annexure-VI.

3.2.2 Observations:

The States/UTs were required to provide information against seven parameters as per CPCB format. However, few States /UTs have not provided information against all these seven parameters, the details of the same are given in the table below:

The observations on the information provided by the States/UTs are given-

STAT	US OF INFORMATION	PROVIDED BY STATES/UTe (Sewage Management)
81.	Action Point	REMARKS
No.		
-	Estimated Sewage	Reply received from 22 States/UTs: Andhra Pradesh, Andaman
2.0	Generation	& Nicobar, Assam, Chandigarh, Chhattisgarh, Dadar and Nagar
		Haveli, Daman And Diu, Delhi, Goa, Gujarat, Haryana.
	17 11	Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur,
		Mizoram, Orissa, Pondicherry, Rajasthan, Tamil Nadu, Tripura.
		Complete information received from 5 States: (Andhra
		Pradesh, Andaman & Nicobar, Delhi, Kerala, and Madhya
		Pradesh.
		To States Daman and
		Incomplete information received from 10 States: (Daman and Diu, Gujarat, Haryana, Manipur, Orissa, Pondicherry, Tripura,
		Madhya Pradesh, Maharashtra, Chandigarh).
		MINOTHAN LENGENT MAINTENANT CONTRACTOR
		No- information-7 States: (Dadar and Nagar Haveli,
		Chhattisgarh, Goa, Karnataka; Mizoram, Rajasthan, Tamil
		Nadu).
2.	Treatment Capacity	Renly received from 22 States/UTs: Andhra Pradesh, Andaman
3	(Projection for O5years	le Nicobar Assam Chandigarh, Chhattisgarh, Dadar and Nagar
	to be taken into	Transia Doman and Dia Delhi Goa, Gularat, Haryana,
.)	consideration)	Kormataka Kerala Madhya Pradesh, Maharashira, Manupur,
$\frac{1}{2}$		Migoram Oriega Pondicherry, Rajasthan, Iamii Nauu, Impura.
		Complete information received from va states: (Alicantati &
		Nicobar Delhi Orissa Maharashtra).
;		Incomplete information received from 10 states: (Andhra
M. (1)		Pradesh, Daman and Diu, Haryana, Kerala, Manipur,

		$\langle \mathcal{A} \mathcal{V} \rangle$	
1		$-\frac{1}{2}g + \frac{1}{2}g + \frac{1}{2}g$	
ST	ATTIS OF INTEODAGATIO	M PROTECTOR PAGE 1	
	ATOS OF INFORMATIC	ON PROVIDED BY STATES/UTs (Sewage Managen	ient)
SI.	Action Point	REMARKS	1
No			
		Pondicherry, Tripura, Madhya Pradesh.	
		1	Maharashtra,
.		Chandigarh).	
		No- information-8 States: (Dadar and Na	gar Haveli
`		Chhattisgarh, Goa, Karnataka, Mizoram, Rajas	than Tamii
<u>'</u>		Nadu, Gujarat).	
. .	3. Status of Sewerage		10 1 A - J
	System (in Km)		n, Andaman
1		& Nicobar, Assam, Chandigarh, Chhattisgarh, Dad	ar and Nagar
1: 4,		Haveli, Daman And Diu, Delhi, Goa, Gujara	t, Haryana
		Rarnataka, Kerala, Madhya Pradesh, Maharashin	ra Maninura
		Wilzoram, Orissa, Pondicherry, Rajasthan, Tamil Na	dri: Trimia
1		Complete information received from 04 States: (D	elbi Daması
46		And Diu, Orissa, and Maharashtra).	Citi, Daniaii
1,		the state of the s	
1		Incomplete to Co.	}
ļ		Incomplete information received from 08 states	(Andaman
		And Nicobar, Haryana, Kerala, Manipur, Pondiche	rry, Tripura,
		Madhya Pradesh and Chandigarh).	
ļ· ,		No- information-10 States: (Andhra Pradesh, Ass	am Crainsall
	1	Dadar and Nagar Haveli, Chhattisgarh, Goa,	To-
		Mizoram, Rajasthan, Tamil Nadu).	Narnataka,
· 4	No. of STPs (Details to	Porly received Con- 60 Ct / Miles	47 - 23-34 (47)
10.			h, Andaman 🎏
,	be provided as per		r and Nagar
	Annexure)	Mayen, Daman And Diu, Delhi, Goa, Guiara	Harriana
		Karriataka, Kerala, Madhya Pradesh, Maharashtra	. Manipur
		Mizoram, Orissa, Pondicherry, Rajasthan, Tamii Nab	lu Trimura
		Complete information received from 03 State	s. (Andhea
		Pradesh, Delhi, Orissa)	a Kerilarita
		Incomplete information received from 10 States:	
		And Nicobar, Daman And Diu, Gujarat, Harya	(Andaman
٠.		Pondicherry Tringer Meland Diu, Gujarat, Harya	na, Kerala, 🌣
•		Pondicherry, Tripura, Maharashtra, Madhya Pr Chandigarh).	adesh and
		Ciming Barris	
- `,			
<i>:</i>		No- information 09 States (Dadar and Nag	ar Haveli.
		Chhamisgarn, Assam Goa, Karnataka, Mizoram	Rajacihan
• • •		Tamil Nadu, Manipur).	- Indicate of the second
· 5.	Has bulk users	Reply received from 22 States/UTs: Andhra Pradesh	4
(15 c)	identified for reuse of	& Nicobar Assam Chanding b Change Tracesh	, Angaman 👍
	treated Water such as		And Nagar
* *	Industrial Clusters,	Haveli, Daman And Din, Delhi, Goa, Gujarat,	Haryana,
. •	· /	Nathataka, Kerala, Madhya Pradesh, Maharashtia	Manine
·.'		Mizoram, Orissa, Pondicherry, Rajasthan, Tamil II	Vadu, and
!	Railways,	Tripura.	
: · . · .	Infrastructure Projects,		
	Agriculture, Bus		- Fig. 13
٠.	1		this may be

STA	T	US OF	INFORMATI	ON PROVIDED BY STATES/UTs (Sewage Management)
SI. No.	-	Action	Point	REMARKS
		Depots (N)	and PWD?	Y Complete information received from 03 States: (Andhra Pradesh, Delhi and Haryana).
g will - A Sign from March				Incomplete information received from 05 States: (Andaman and Nicobar, Orissa, Pondicherry, Tripura, Maharashtra).
	100			No- information-14 States: (Daman And Diu, Gujarat, Dadar And Nagar Haveli, Chhattisgarh, Goa, Karnataka, Kerala, Madhya Pradesh, Chandigarh, Assam, Mizoram, Rajasthan, Tamil Nadu, Manipur).
6.)uantit		Reply received from 22 States/UTs: Andhra Pradesh, Andaman
	ľ	rastew BT.	ater being use	Oilling and an arranged and a second a
1	<u>ן</u>	у ошк	User (in MLD)	
April 1				Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Mizoram, Orissa, Pondicherry, Rajasthan, Tamil Nadu, and
		•		Tripura).
		•	'	
) . 		Complete information received from 01 State: Delhi
		;		Incomplete information received from 06 States: (Andhra
				Pradesh, Andaman and Nicobar, Daman and Diu, Pondicherry,
		,		Tripura and Maharashira).
1 1a ,				
1			i i	No-information 15 States: (Andhra Pradesh, Assam,
		٠		Chandigarh, Chiattisgarh, Gujarat, Haryana, Kerala, Manipur,
		•	ł ł	Orissa, Dadar and Nagar Haveli, Goa, Karnataka, Mizoram, Rajasthan, Tamil Nadu).
7.	N	o. of	Water Aquatic	Reply received from 22 States/UTs: Andhra Pradesh, Andaman
11 A	Sp	urces	(Lakes, Pond,	& Nicobar, Assam, Chandigarh, Chhattisgarh, DadarAnd Nagar
	et	.) bel	ng developed	Haveli, Daman And Diu, Delhi, Goa, Gujarat, Haryana,
		rough	treated	Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur,
	W	stewa	ter	Mizoram, Orissa, Pondicherry, Rajasthan, Tamil Nadu and
	-	•	1	Tripura).
	1			Complete information received from:02 States/UTs-(Delhi and
				Pondicherry).
• •		-		Incomplete information received from: 02 states (Tripura and
	1			Maharashtra)
- I			•	No- information, 18 States/UTs-(Andhra Pradesh, Andaman
				And Nicobar, Assam, Chandigath, Chhattisgarh, Daman And
			2	





STAT	US OF INFORMATION	PROVIDED BY STATES/UTs (Sewage Manager	ient)	
SI. No.	Action Point	REMARKS		,
		Pradesh, Dadar And Nagar Haveli, ,Goa, Karnata ,Rajasthan, Tamil Nadu).	ika, M	lizorami,
				1

The information provided by the States/UTs has been further analysed for two key parameters of Sewage. State wise performance of the States/UTs against these two key parameters is given in table below:

	Trenton	MANOR OF STATES ATT. (Server	Management)
SI.No.	PERFOR States/UTs	MANCE OF STATES /UTs (Sewage: % Gap in Treatment Capacity	% Gap in Sewage Network
1.	Andhra Pradesh	63.47%	No Information
2.	Andaman & Nicobar	98.14%	Partial Information (Existing *
	Islands	20.1±/0	sewerage system Not Provided).
3. Assam		No Information	No Information
4.	Account . ,	Partial Information (Sewage	Partial Information (Desired /
, The	. Chandigarh	Generation Not Provided)	Projected sewerage system Not : Provided)
5,	. Chhattisgarh	No Information	No Information
6.		Partial Information (Sewage	Partial Information (Desired /
	Dadra Nagar & Haveli	Generation Not Provided)	Projected sewerage system Not Provided)
• 7.	Daman & Diu	43.86%	78.31%
В.	Delhi	17.06%	No Information
- 9.	Goa	No Information	No Information
10.	Gujarat	No Information	No Information
11.		Partial Information (Sewage	Partial Information (Desired /
	// Haryana	Generation & Treatment Capacity Not Clear)	Projected sewerage system Not Provided
12.	Karnataka	No Information	No Information
13.		Partial Information (Sewage	Partial Information (Desired./
•	Kerala	Generation & Treatment Capacity Not Clear)	Projected sewerage system Not Provided)
14.	Madhya Pradesh ,	79.96%	No Information
15.	Maharashtra	21.74%	21.93%
16.	Manipur	52.11%	Partial Information (Desired / Projected sewerage system Not Provided).
17.	Mizoram	No Information	No Information
18.	Odisha	Partial Information (Sewage Generation & Treatment Capacity Not Clear)	72.63%
19.	Pondicherry	0% (No gap-Treatment capacity is more than sewage generation.)	Partial Information (Desired //* Projected sewerage system Not Provided).
20.	. Rajasthan	Partial Information (Sewage Generation & Treatment Capacity Not Clear)	No Information

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		THE ASSESSMENT OF THE ASSESSMENT NAMED IN THE PARTY OF TH	(Annanamant)
1'-! {	PERFC	RMANCE OF STATES /UTs (Sewage N	Management)
21.	Tamil Nadu	No Information	No Information
22.	Tripura	Partial Information (Sewage Generation & Treatment Capacity	Partial Information (Pesired / Projected sewerage system Not
	·	Not Clear)	Provided)

Based on the above assessment, overall performance of the States/UTs against these two parameters is given in the table below

	OVE	ATT PERFOR	MANCE OF STATES	UTs (Sewage Management)
Parameters	Good	Average	Poor	Partial Information	No information
Gap in Sewage Treatment	Delhi, Maharashtra, Pondicherry (3)	Daman & Diu (1)	Andhra Pradesh, Andaman & Nicobar, Madhya Pradesh, Manipur.(4)	Chandigarh, Dadra, Nagar & Haveli Haryana, Kerala, Odisha, Rajasthan, Tripura (07 States/UTs).	Assam, Chhattisgarh, Goa, Gujarat, Karnataka, Mizoram, Tamil Nadu (07 States/UTs)
Sewerage Network	Maharashtra (1)	-	Daman & Diu, Odisha. (2)	Andaman & Nicobar Islands, Chandigarh, Dadra Nagar & Haveli, Haryana, Kerala, Manipur, Pondicherry, Tripura (08 States/UTs).	Andhra Pradesh, Assam, Chhattisgarh, Delhi, Goa, Gujarat, Karnataka, Madhya Pradesh, Mizoram, Rajasthan, Tamil Nadu (11 States/UTs).
0.0-165			4- 7E0/A P-Poor (<50)	%). No Info- No informat	ion: Partial

G-Good (>75 %), Av-Average(>50% upto 75%), P-Poor (<50%), No Info-No information; Partial information

CPCB's observations based on the above assessment are as given below:

Maharashtra is the only state in which Sewage treatment capacity and Sewerage network provided is more than 75% of the requirement.

Most States/UTs have either partial or no information w.r.t to requirement of Sewage treatment capacity and that of Sewerage network

Performance of States/UTs w.r.t provision of sewerage network is worse than provision of sewage treatment facilities

3.2.2 Recommendations:

(i) The States / UTs need to address the various aspects related to Sewage management including strengthening of treatment capacity by increasing no. Of STPs, assessment of treated sewage data, identification of hotspots and taking remedial measures, designating authorities for developing mechanism for taking action against defaulters.

(ii) The States/UTs need to identify bulk users for reuse of treated Water such as Industrial Clusters, Metro Rail, Indian Railways, Infrastructure Projects, Agriculture, Bus Depots and PWD.

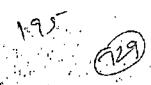
(iii) The States/UTs need to develop no. of Water/Aquatic Sources (Lakes, Ponds, etc.)

by using treated wastewater.

(iv) The States/UTs need to provide complete information as per directions of Hon'ble.

NGTs including current status, desirable status, gap and the timeline for the proposed action.

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(v) The States/UTs need to provide complete information on the various issues related to Sewage management covering the issues in the template provided by CPCB and as per the Directions of the Hon'ble NGT to ensure completion of the action points within the specified timelines.

3.3 Noise Management

3.3.1 Information Status

Out of 24 States and UTs, 10 states and UTs e. g. Andaman & Nicobar Island, Assam, Chandigarh, Delhi, Maharashtra; Tamil Nadu, Odisha, Daman & Diu, Manipur and Punjab have provided the information regarding noise. Detailed information is placed at Annexure VII.

3.3.2 Observations

The States/UTs were required to provide information against fourteen parameters as per CPCB format. However, few States /UTs have not provided information against all these fourteen parameters, the details of the same are given in the table below:

	STATUS OF INFOR	MATION PROVIDED BY STATES/UTs (Noise)	
i	Issued related to noise	Summary	a a salahan Juni
	No. of stations for Ambient	Out of 24 States and UTs, 8 states e. g. Assam, D	1712
۱.	Noise Monitoring	Maharashtra, Tamil Nadu, Odisha, Daman & Diu	em,
		Manipur have provided the number of station	ann
1		ambient noise monitoring and among them numb	2 101
·		monitoring station is higher in Odisha and	the
		number is 56.	nie
	No. of stations in Industrial	8 no. of States and UTs e.g. Assam, D	albi.
1	Zone	Maharashtra, Tamil Nadu, Odisha, Daman & Div	andil
ı		Manipur have provided the number of stations	z Foly
1		ambient noise monitoring and among them number	27 06
		monitoring station is higher in Odisha and the nun	aber.
H	No. of	15 14	[:]
	No. of stations in	8 states Assam, Delhi, Maharashtra, Tamil Na	idu,
	Commercial Zone	Odisha, Daman & Diu and Manipur have provi	dod.
ŀ		the number of stations for ambient noise monitor	rino!!
1		and among them number of monitoring station	n is
H	No. of stations in	higher in Odisha and number is 14.	
	_ • • • • • • • • • • • • • • • • • • •		du
		Odisha, Daman & Diu and Manipur have provide	ded
ļ.,		the number of stations for ambient noise monitor	ing
		and among them number of monitoring station	ıis∬.
1	No. of stations in Silence	higher in Odisha and number is 14.	:
	_ '!	8' states Assam, Delhi, Maharashtra, Tamil Na	du
- '	1	Odisha, Daman & Diu and Manipur have provide	led
_		the number of stations for ambient noise monitor	ing)



1	<u>and the second of the second </u>
STATUS OF INFOR	MATION PROVIDED BY STATES/UTs (Noise)
Issued related to noise	Summary
	and among them number of monitoring station is
	higher in Odisha and number is 14.
Compliance of Ambient	Monitoring of ambient standard report given by 4
Standards (No. of Stations)	states Assam, Daman & Diu, Manipur and Odisha and
Industrial Zone	other states have not provided any data.
Commercial Zone	
Residential Zone	
Silence Zone	
Identification of Hot Spots	Only Kerala and Manipur identify the hot spots and
-	other states have not provided any data.
Designated Authorities	Designated Authorities details provided by 6 States
defined as per Noise Rules	and UTs e.g. Delhi, Manipur, Maharashtra, Kerala,
(Y/N)	Odisha and Andaman & Nicobar Island.
(Details to be provided)	
Has Methodology been	Methodology for granting permission for installation
prepared for granting	of Public Address System have been prepared and
permission for installation	provided by 7 States/UTs e.g. Delhi, Maharashtra,
of Public Address System.	Odisha, Daman & Diu, Kerala, Andaman & Nicobar
(Details to be provided)	Island and Manipur.
Has Methodology been	Methodology for redressal of complaint on noise
prepared for redressal of	Pollution have been prepared and provided by 8
complaint on noise	States and UTs e.g. Delhi, Maharashtra, Odisha,
Pollution. (Y/N)	Daman & Diu, Kerala, Tamil Nadu, Andaman &
(Details to be provided	Nicobar Island and Manipur.
No. of Police Stations	5 States and UT's e.g. Chandigarh, Chattisgarh, Delhi,
equipped with Sound level	Maharashtra and Odisha provided the data of no. of
meter.	police station equipped with sound level meter.
No. of Police Stations	5 States and UTs e.g. Chandigarh, Chattisgarh, Delhi,
having officers trained as	Maharashtra and Odisha provided the no. of police
her Morse Pollution Kules	station equipped with sound level meter.
by SPCBs/PCs.	
Has Protocol been	5 States and UTs.e.g. Delhi, Manipur, Maharashtra,
developed for taking	Tamil Nadu and Andaman & Nicobar Island provided
appropriate action against	the protocol developed for taking appropriate action
the defaulters?	against the defaulters.
i i	

The information provided by the States/UTs has been further analysed for five key parameters of control of noise pollution. Statewise performance of the States/UTs against these five key parameters is given in table below:

197.

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			EDECUA	A NICITI COL	COD A TUDO	/TPT- / NI	امعام			
		<u>P</u> .	EKFORM	ANCE OF	STATES Stat		0156)		1 1:	23.1
Farameters	Andam an & Nicoba r Island	Assam	Chandi garh	Delhi	Mahara shtra	Tamil Nadu	Odisha	Dam an & Diu	Manipur	Punjab
% Gap in Network	. 100	100	NI	80.7	PI	33.3	17.6	PI	PI	NI
% Gap of Compliance of Ambient Standard	NI	NI	NI	100 (On the basis of installe d station	NI	NI	75	0	Planta and a surface of the surface	NI.
No. of Designated Authorities	PI	0	NI	PI	PI	PI (Indica tes no orders issued)	PI .	.0	PI	ŇI
No. of Police Stations equipped with sound level meter	0	NI	NI	0	PI (Indicat es all, Numbe r not provide d)	NI	PΙ	NI	NI	NI
No. of Police Stations having officers trained as per Noise Pollution Rules	0	ΡΙ	NI	PI	PI (Indicat es all, Numbe r not provide d)	NI	ΡΙ	NI	0	NI
NOTE: PI: Partial Info	ormation, l	NI: No info	ormation							10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (

Based on the above assessment, overall performance of the States/UTs against these five parameters is given in the table below:

(132)

1	OF STATES/UTs (Noise) . No. of States									
Parameters	Goo	₁ ₫	Ave	rage	Poor			tial ormat	No Info n	rmatio
No. of Network	,	·].		1		· 3	!	3	1	
Compliance of ambient Standard		7 :		. 1	7	4				<u>مع</u>
No. of Designated Authorities	 				-	2	- 	<u>.1,</u>	- · . -	- 6
No. of Police Stations equipped with sound level meter		<u> </u>	. <u> </u>	ر. د		,		6		:2
No. of Police Stations having	·	-	· .				<u>· · · </u>	2	<u>'</u>	<u> </u>
officers trained as per Noise Pollution Rules	· ·	0	•	ö		2	·	ا ۵۰۰		

CPCB's observations based on the above assessment are as given below:

(a) Odisha has set up maximum number of stations as per plan.

(b) Maharashtra has achieved maximum compliance w.r.t equipping the police stations with noise monitoring equipment and training of its officials

(c) Substantial non-compliance observed w.r.t to provisions of Noise Rules for other states/UTs

3.3.3 Recommendations:

(i) The States / UTs need to address the various aspects related to Noise management including strengthening of monitoring network, assessment of noise monitoring data, identification of hotspots and taking remedial measures, designating authorities for developing mechanism for taking action against defaulters

(ii) The States/UTs need to provide complete information as per directions of Hon'ble NGTs including current status, desirable status, gap and the timeline for the proposed action.

(ii) The States/UTs need to provide quarterly progress reports on the various issues related to Noise Poliution covering the issues in the template provided by CPCB and as per the Directions of Honble NGT to ensure completion of the action points within the specified timelines.

3.4. Construction and Demolished Waste

3.4.1 Information Status

Information has been received from 11 no. of States/ UTs(Andhra Pradesh, Chattishgarh, Dadra & Nagar Haveli, Delhi, Goa, Gujarat, Madhya Pradesh,

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Maharashtra, Rajasthan, Tamil Nadu and Tripura). Details are enclosed at Annexure-VIII.

3.4.2 Observations

Information received from the states UTs has been evaluated based on four key parameters namely listimation of Quantity of C&D Waste, provision of facilities for collection & transportation of C&D Waste, Setting up of facilities for C&D waste and utilization of processed C&D waste.

State/UT wise assessment based on these key parameters is given in the table below

		PERFORMAN	ICE OF STATES/UTs (C&D WAS	TE MANAGEMENT)	The state of the s
S/L	State	Waste generated (Estimated/Not estimated/Did not provide)	Waste collection & transportation facilities (Adequate/Not adequate/Did not provide)	Waste processing facilities (Capacity/Did not provide)	Off-take of processed C&D waste for re-use (Quantity/Did not provide)
1.	Andhra Pradesh	Not estimated/provide d.	Not adequate. Proper details of collection and transportation not provided.	Waste processing	Actual quantity of processed waste off-take not provided. The end product is being
			02 ULBs have own processing plants and transportation	& Vijayawada)	supplied to industries and also used for roads construction.
			waste of ULBs producing above 50 TPD will go to		
			processing plants. Waste of ULBs producing less than 50 TPD will go to	construction at	
			Detailed transportation plan not provided.	Tirupati.	
			45 ULBs established C&D waste collection centers		





· . [***	<u> </u>		لإنشاء موجات أسرمان
· -		 	PERFORMAN	NCE OF STATES/UTs (C&D WAS	TE MANAGEMENT)	No. of the second second	٦٠
				and 88 ULBs established call centers			
	2.	Chattishgarh	Not estimated/provide d.	Has plan for augmenting waste collection centers and call centers. Fairly adequate. The C&D waste is collected by ULB'S separate vehicles in covered manner. ULBS are lifting the C&D waste from waste generators after receiving complaints through a toll-free number or by written complaints. Directions issued for proper management of C&D waste in accordance with provisions of rules.	Local Authorities claim to have facilities for processing C&D	As per the short-term plan, C&D	(75)
				The Vidhvonsh Se Srojon model is used. It is a low cost, Sustainable, decentralized	·		
-11 + 1	<u>.</u>			model based on extensive segregation and recycling		and the first transfer and the first transfer and the first transfer and the first transfer and the first transfer and the first transfer and the first transfer and the first transfer and the first transfer and the first transfer and the first transfer and the first transfer and the first transfer and the first transfer and tran	to Bit defined about the special section of t
7	٠.	The second of the second of	and the second s				l'

			2000			
	·		PERFORMA	NCE OF STATES/UTs (C&D WA	TE MANACEMENT	<u> </u>
				It is combined with the	, and the state of	
				benefits of citizen		, ,
	·			participation and urban		(P)
		·		livelihood promotion.	1	
l				Promodom.	}	
ł				Waste generators are also		
Į			,	directed to submit action	- ·	1
				plan for many		1
L		<u>l</u> .		plan for management of C&D waste.		
ł	3	Dadra & Nagar	Not			
_]		Haveli	estimated/provide	Not adequate.	Not provided.	Not provided.
			d	1		riot provided.
. [u.,	Silvassa Municipal Council		
-				vide its Order dated		1.
				13/12/2018 had notified		
- 1				the provisions for the		
-			 	management, handling and		
	_ :			disposal of C&D waste		
				generated in the UT of		
	1			Dadra & Nagar Haveli.		
┈┝	, . .	Delhi -				
	4.		Approximately	ULBs have identified	03 facilities exist	
Ţ			3900 TPD of C&D	designated places for		
٠		= =	waste is generated	dumping of C&D waste in	and are in operation	now. However, Government in
	· .		in Delhi.	their areas of jurisdiction	operation.	Working on and requesting
<u>'</u>]					Dialina	different departments to very
.					Directions u/s	more recycled or /processed
· .	l				or the Air	Cord waste for their new
				- North DMC has	(P&CP) Act,	constructions.
L				- North DMC has taken measures for making	1981 and u/s 5	
	٠.٠			measures for making	of the E(P) Act,	
	٠.				·	

•	* * *				TARREST AND ADDRESS.	
Γ			PERFORMANC	E OF STATES/UTS (C&D WASTE	MANAGEMENT	
ŀ	: 1			surprise inspection in night	1986 was issued	
1	.			to find out the violators and	by DPCC to	
	·			· · · · · · · · · · · · · · · · · · ·	C&D waste	
1					processing	
1.				challan.	facility as	
l	. J.	-			required.	
1	. }			- SDMC is in process of		
ı	. 1			installing CCTV at hot		
1	- : .			spots, where C&D waste is		
1:				illegally dumped.		
					•	
ĺ,	.			- DPCC has issued letter to	·	
١.				North MCD for taking		
1	٠.			necessary action for		
1	.	· · · · · ·		removal of heap of C&D	,	
	. [1	waste.		
	•		·			· · · · · · · · · · · · · · · · · · ·
	ł			-DPCC had deployed night		
-[i	. •		patrolling teams for		1
ļ	- 1		1	detection of unauthorized		
1]			dumping of C&D waste in		•
1	1			industrial areas of Delhi		
ı	1			and took necessary action		i i
Į				_		
İ		***		as required.		- •
ļ			** · · · · · · · · · · · · · · · · · ·	Presently, all the ULBs'	Not adequate	Did not provide any details.
	5.	Goa	No information	have their suitable sites for	110cmodime.	
1		, ,	provided/not	nave their suitable sites for	-Talontification of	and the state of t
			estimated.	treatment of waste except	resident canon or	
	· '	Single of the second of the second	an administration of personal control of the party of the personal control of	for Cacora Curchorem	SUITABLE SILES TOT	
-					- ·	

-					ji mata liberia da liberia kata kata kata kata kata kata kata ka
L		PERFORMAN	NCE OF STATES/UTs (C&D WAS	TE MANACEMENTS	And the second of the second o
- -		The state of the s	Municipal Council	colling are solid	A CONTRACTOR OF THE PROPERTY O
ŀ	İ	-	(CCMC) in Court Co-	security up some	
	1 1	·- ·	(CCMC) in South Goa	waste	
··-∱· -			district. The site in respect	processing	A STATE OF THE STA
1	1		of CCMC has been handed	facilities.	'
[1		over to Goa Waste		
1	 		management Corporation		
1	[(GWMC) for setting up	•	
	l l		C-12-717	ļ ,	
			Solid Waste Management	}	
	1		Facility at Cacora	Ì	ł
			! .		∤· •
			All 191 village panchayats	,	
	•	· ·	are undertaking door-to-	· .	· ·
	<u>.</u>		door collection / street		
			door conection / street	l.,	
	-		cleaning / conversion of		
'			black-spots into green-		
٠ ٠		= 1	spots		
6	. Gujarat	No information	Not adequate.	Manadanists	
		provided/not	Avot watifuate,	Not adequate.	Not provided.
<u>.</u>	*	estimated.			
1		esumated.	State Authorities only	State Board in its	Facilities being set-up.
.:	집사 동네는 뭐나는데		drafted plan in this regard.	Report	
				submitted that	
				300 TPD facility	
"				is operational	
-					
1.				for C&D waste.	
				No - further	-
1 ,				details	
.	网络鸡皮 医异菌性		[provided.	



		PERFORMAN	CE OF STATES/UTs (C&D WAST	E MANAGEMENT)	
7.	Madhya Pradesh			Not adequate.	Systematic off-take not started.
ļ,,* -		provided/estimate			
		d.	The ULBs notified C&D	At present, only	In addition, 255 ULBs have
			collection & transportation	one ULB (Indore	established a mechanism for
			mechanism in local		collection, storage and usage of
			newspapers. This has		C&D waste
1	***		ensured that citizens do not		
	-		throw waste in open areas.	C&D Waste.	The ULBs are using collected
					C&D waste mainly for filling low
			Policy for C&D waste	02 more ULBs	lying areas and providing the
			processing facilities has		C&D Waste as raw material to
		***	been prepared.	the process of	1 .44 '- 2
				setting up C&D	blocks, bricks, etc.
		, .,		Waste	
	- v ()	:		processing facility	
8.	Maharashtra	No information	Not adequate.	Not adequate.	No information provided.
"	·	provided/not	1101 Ecoquetto	. Tot dad quater	i i i i i i i i i i i i i i i i i i i
		estimated.		Regarding C&D	
-	,			waste	
				processing	
	,			facility please	
· ·	•			find Table-1	
		,		below.	
			,	{ `	
9. ;	Rajasthan	No information	Not adequate.	Not adequate.	No information provided.
		provided/not	,		
		estimated.	Draft of the C&D Waste	Treatment Plant	ر المراجعة
- v-1-w-		Land Advantage of the August State of the Augu	Management Policy has	under	





	i di jeko i tito i njih i njih i njih i njih i njih i njih i njih i njih i njih i njih i njih i njih i njih i I njih i njih i njih i njih i njih i njih i njih i njih i njih i njih i njih i njih i njih i njih i njih i njih		College of the Colleg		read the second of the second
		PERFORMAN	CROESTATES/UTs (C&D WASI		Berthamet, Angeles and India and The Secretary States of the Secretary States
		<u>.</u> 7 /	been prepared and is under		
İ	l .	- 12.	process of approval.	Udaipur for 50.	
				TDP.	
	1		•		
				,	
10	Tamil Nadu	No information	Action Plan prepared in the	Adequate -	Adequate (100%). Utilization is
1.0	18th 14der	provided/not		(100%).	done.
		estimated.	sites for C&D waste	,	;
ļ	1	esimiatea.	earmarked. Suitable		·
1			Collection		
,		•	Conection	,	
					'
· ·			Proper mechanism for		
1			inflow and outflow of C&D		
			waste is being planned by	* 1	
Ĺ			31.12.2020 and will be fully		
	-		established.		
11	Tripura	At present, total	Not adequate.	Not adequate.	Not done now.
_ ~~		about 20.75 MI per			
				Policy-for	Has plan for sensitizing
		being generated	separately collecting and	management to	
_ ' '			transporting the C&D	be notified.	more processed C&D waste,
		in 20 ULBs, of			
		which generated	1	State	
		about 5.00 MT/day.		Government has	
~			Processing Plant (in PPP	planned for	
			mode) for manufacturing		
		1	eco-bricks, mechanical	c&D wwaste	
			hollow bricks.		
4.5	<u></u>	_ 		• •	

٠.	<u> </u>	• •							'PEI	RFORN	AANC	FOR	err A m	EC AC	100 C	· ·	· · ·				_	· ·		•			-
	١٠.	7:	–	-	-	-			<u> </u>		:	EOI.	31 W.T.	CO/L	118 (Ć	STD N	<u> ASI</u>	E MANA	GEME	NT)					-		
4		٠. -	-		•		٠٦	-					· :	•	-	-	· [processi	ing				. :.	: :		 $\overline{}$	- 4
	, ,				-	,	_ [:	· · · · · -							<u> </u>			plant.		<u>-</u> , :				٠.,	.		





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CPCB's observations based on the above assessment are as given below:

- i. As per information received, Desirable Level of Compliance in terms of statutes have been achieved by very few States/UTs
- ii. Only two states- Delhi & Tripura have provided information regarding quantity of C&D waste generated in their States/UT
- iii. Adequate facilities for collection and transportation of C&D Waste provided in Chhattisgarh. Good initiatives in this regard taken in Delhi and Goa
- iv. Adequate facilities for C&D Waste Processing provided in Tamil Nadu. Waste processing facilities have been set up in five other states namely Maharashtra,, Delhi, Andhra Pradesh, Rajasthan, MP and Chhattisgarh
- v. Adequate utilization of processed C&D Waste achieved in Tamil Nadu, where as utilization of processed C&D Waste remains a major issue in other states.
- vi. Name and Designation of Designated Officer for Ensuring Compliance have been provided by Chhattisgarh, Madhya Pradesh and Tripura whereas Maharashtra has only communicated the number of officials.

3.4.3 Recommendations

- i. The States /UTs need to address the various aspects related to C&D Waste management including collection and transportation of C&D Waste, setting up of waste processing facilities as well as utilization of C&D Waste processed products
- ii. The States/UTs need to provide complete information as per directions of Hon'ble NGTs including current status, desirable status; gap and the timeline for the proposed action.
- iii. The States/UTs need to provide quarterly progress reports on the various issues related to C&D Waste management covering the major issues highlighted in Section 3.4.2 and as per the Directions of the Hon'ble NGT to ensure completion of the action points within the specified timelines

3.5 <u>E-Waste</u>

3.5.1 Information Status:

In compliance to the Hon'ble National Green Tribunal Order dated 24-04-2019 & 12-09-2019 in D.A. No 606 of 2018, seventeen (17) states/UTs have submitted information related to B-Waste. Bleven (11) states have submitted the reports in the prescribed format namely Assam, Chandigarh, Chhattisgarh, Delhi, Haryana; Kerala, Lakshadweep, Manipur, Odisha, Puducherry and Tripura. Six (06) states namely Andhra Pradesh, Dadar Nagar H, Madhya Pradesh, Maharashtra, Rajasthan and Tamil Nadu have not submitted report in the prescribed format. Compiled information received from States/UTs is attached in Annexure-IX

3.5.2 Observations:

The information provided by the States/UTs has been further analysed for six key parameters of E-Waste management Statewise performance of the States/UTs against these six key parameters is given in table below:

<u>··</u>	<u>·</u>		4.3.4		2717 ()			1
			RFORMANCE OF		E-Waste) □ Σ/-	Remar	lea S	
S.	Parameters .	Good	Average	Poor	No- Information	veiusi,		- ₊
N		1.7			Provided	<u> </u>		
1.	Checking of		Andhra		Madhya		er report	1
	informal	1	Pradesh.		Pradesh,	submit	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7.3
1 '	trading.		Aşsam,	,	Rajasthan,	secreta		
$\left\{ \right\} _{j_{1}}$	dismantling		Chandigarh.		Arunachal		UTs under	
* :			Chhattisgarh,	·	Pradesh,		o 606/2018.	34
1	and recycling of		DD& DNH,		Bihar,	of Hon	ble NGT	377
4	waste		Delhi, Haryana,		Goa,		1.	1, 14 m
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Kerala, '		Gujarat,		1	
			Lakshadweep,	` <u>,</u>	Himachal,			
			Odisha,	. • *	Pradesh,			1
			Manipur,	·. ·	Jharkhand,		[1] 、秦紫	To the second
			Maharashtra,		Karnataka,			
· []		, ,	Puducherry,	1	Meghalaya, Mizoram,		The	
			Tripura, Tamil	1				
	, , ,		Nadu	1 .	Nagaland, Punjab,	ļ	F 4. 8	
$\{\}_{i\in I}$					Sikkim,			
1		· · .		!	Telangana,			
4 1				1	Uttarakhand,			
		1 / /	· · · · · · · · · · · · · · · · · · ·	ŀ	Uttar Pradesh,		2	
		,			West, Bengal			
				, ,	Andaman and	'	17. 300.0	4 Sec. 19
		r ,			Nicobar,		[] [] [] [] [] [] [] [] [] []	"我最大
1 .				•	Jammu &		the Confidence	黎色
					Kashmir	_	la Nation	
2.	Facilitate	Assam,	,Andhra	Lakshadwee	Rajasthan,			翻奏。
	collection.	Kerala, 1	Pradesh,	p	Arunachal·		Per report	1 3 65
1.	and	Odisha.	Chandigarh,		Pradesh,		mitted by	
	disposal of	Puduch	Chhattisgarh,		Bihar,	1 _ !	retaries	
	e-waste	erry	DD& DNH,].	Goa,		o 606/2018 of	
			Delhi, Haryana,	•	Gujarat, Himachal,		n'ble NGT	
		' ' ;	Manipur,		Pradesh,		L. M. L. C.	
			Madhya Prodosh		Jharkhand,			
			Pradesh, Maharashtra,		Karnataka,		1 3	
		1	Tripura, Tamil		Meghalaya,	•	1	1
			Nadu		Mizoram,			
		• •	1		Nagaland,		1	
					Punjab,		14. 化化	
		1		1	Sikkim,	.		
: .				1	Telangana,		打. "	
					Uttarakhand,			
[1.1	2		Uttar Pradesh,			16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1				West, Bengal		ly will	· 经基本
			,		Andaman and		300	
.					Nicobar,	<u>l </u>	1	
3.			*	• ,	:		12.7 9	
				e .		1.	11.00	23
			4	O m	•		Fig. and significan	
						1	The state of the s	.:(**
						ļ	[15] , 118	- 🙀 7
* * *				<u> </u>		ì	41 4 Alexander	31

	Parameter	Good	PERFORMANCE C	Poor	No-	
٧.		['	, · · ·			Remarks
Ĺ		Í			Information	
٠,			- 		Provided	
•		İ			· Jammu &	
. "		 -			Kashmir	
	Governance frame		Andhra	DD& DNH	, Haryana,	As Per rep
;	, , ,	Odisha	Pradesh,	Lakshadwee		
·]	work fo		Assam,	P	Madhya	
- 1	monitoring		Chandigarh,	, P .		secretaries
. ;	compliance		Chhattisgarh,		Pradesh,	States/UTs une
٠		•	Delhi, Tripura,		Maharashtra,	OA No 606/20
1		1	Denn, Impura,		Rajasihan	of Hon ble NGT
			Tamil Nadu			
· Į		1'				
<u>. !</u>	<u> </u>			,	·	
į	Capacity	Chhattis	Andhra	Lakshadwee	Madhya	
1	building at	garh,	Pradesh,	p	· .1	As Per repo
i	district/Sta	Puduch	Assam	P	Pradesh,	submitted]
` ¦	te/CPCB				Arunachal	secretaries
۱,	level	erry,	Chandigarh,		Pradesh,	States/UTs und
ا: -		Tripura	DD& DNH,		Bîhar,	OA No 606/20
. }) ,		Delhi, Haryana,		Goa,	of Hon'ble NGT
Ì]	1	Kerala, Odisha,		Gujarat,	of I told Die 19(3)
, [Tamil Nadu		Himachal,	
	() (Manipur,			
• 👍	ì	1	Maharashtra,		Pradesh,	
}	<u> </u>	1 '			Jharkhand,	
'!Ì		1	Rajasthan		Kamataka,	
,		· .			Meghalaya,	
ا،		1			Mizoram,	1974 1975 2070
	į.	1 '	1		Nagaland,	
·]		ľ	, , -		Punjab,	
,		1		•	Sikkim,	· ;
. 1						
	·]		Telangana,	
٠					Uttarakhand,	
,	 	1.]		Uttar Pradesh,	
.					West, Bengal	
- 1	,	i]	•	Andaman and	
-] . [Nicobar,	
-	1]	10000	Jammu &	
[,!		Kashmir	
7	IEC plan be	Chandig	Andhra	Lakshadwee	Kerala,	
ľ	firmed up	arh,	D33			As Per report
۱.	and ;	Chhattis		P	Maharashtra,	submitted by
ı	executed	_	, =		Rajasthan,	secretaries of
	<u> </u>	garh,	DNH, Delhi,		Arunachal	States/UTs under
Į,	ì	Odisha	Haryana,		Pradesh,	OA No 606/2018
H			Manipur,			of Hon'ble NGT
		í	Madhya		Goa,	PATATOR DIG 19621
		!	Pradesh,			
H	,		Puducherry		Gujárat,	
H		,		i i	Himachal,	2017年1月2日日
Н			Tripura, Tamil		Pradesh,	
- (1	6 1	J	Nadu . [· · · · · · · · · · · · · · · · · · ·	Jharkhand,	

		PE	RFORMANCE OF	STATES/UTs (F	-Waste)	
	Parameters	Good :	Average	Poor	No-	Remarks
	, arancosono				Information	
N.					Provided	
			1		Karnataka,	
				•	Meghalaya,	
			The state of the s	· '	Mizoram,	
1.0				•	Nagaland,	
					Punjab,	·
				<u>'</u>	Sikkim,	, ,
					Telangana,	
		1			Uttarakhand,	1
				:	Uttar Pradesh,	
$^{\cdot}$ $_{j}$.					West, Bengal	
				,	Andaman and	
41 · ·			Part of the second	1	Nicobar,	
		ļ	4		Jammu &	
			15.		J	
• ', "			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	12. 1	Kashmir	A District
6.	Strengthen		Assam,	Lakshadwee	Andhra	As Per report
	system of	4	Chandigarh,	p ,	Pradesh,	submitted by
• • • •	enforcemen		Chhattisgarh,	Maharashtra,	Manipur,	secretariesof
	+	† ' .	DD& DNH,		Madhya	States/UTs under
1. 1		1 1			Pradesh,	OA No 606/2018
4.			Delhi, Haryana,	1	Rajasthan, Tamil	of Hon ble NGT
1	*	J	Kerala, Odisha,	1		
.; '			Puducherry,	1	Nadu,	
1			Tripura		Arunachal	
		` · · ·	· • · · · · · · · · · · · · · · · · ·		Pradesh,	
					Bihar,	
	1 1			1.	Goa,	
] .					Gujarat,	
1.3	1	1.			Himachal,	
31 · ·	1	,	引,		Pradesh,	
				· .	Tradesh, Jharkhand,	
	1			1	1'	
	1.		, .]	Karnataka,	
				1	Meghalaya,	
1000	1		1		Mizoram,	And And
1		1		· · · · ·	Nagaland,	
 					Punjab,	1 1 1 1 1 1 1 1
		기시 기기	11.		Sikkim,	
				· · ·	Telangana,	
					Uttarakhand,	
					Uttar Pradesh,	
		``[,	
1					West, Bengal	The state of the s
166		1		1 '	Andaman and	
					Nicobar,	
-1 °	_ ,			1	Jammu &	
1.	· ·			1	1 100000	

CPCB's observations based on the above assessment is as given below:

a) Checking of informal trading, dismantling, and recycling of e-waste:

As per information submitted by 17 SPCBs/PCCs, 12 SPCBs/PCCs are in coordination with District Administration in carrying out quarterly drive for checking of informal trading, dismantling, and recycling of e-waste. 05 SPCBs/PCCs are yet to start this drive.

b) Facilitate collection and disposal of e-waste:
As per information submitted by 17 SPCBs/PCCs, 15 SPCBs/PCCs are in the process of formulating mechanism for collection and for incentivizing setting up of recycling facilities. 02 states have not provided information regarding this activity.

C) Governance framework for monitoring compliance:

As per information submitted by 17 SPCBs/PCCs, 06 SPCBs/PCCs have designated state, district and municipal level Nodal officers for monitoring of compliance, 03 SPCBs/PCCs are under process to designated state, district and municipal level Nodal officers, 08 SPCBs/PCCs have not provided any information regarding this activity.

d) Capacity building at district/State/CPCB level: As per information submitted by 17 SPCBs/PCCs, 13 SPCBs/PCCs have conducted Special workshops to educate functionaries in government /NGOs, 02 SPCBs/PCCs are under process and 02 SPCBs/PCCs have not yet started.

e) IEC plan be firmed up and executed:

As per information submitted by 17 SPCBs/PCCs, 10 SPCBs/PCCs have formed IEC plan for educating public at large about the system of collection; incentive structure and facilities for recycling. 02 SPCBs/PCCs are under process to form IEC plan and 05 SPCBs/PCCs have not formed IEC plan yet.

f) Strengthen system of enforcement:
As per information submitted by 17 SPCBs/PCCs, 09 SPCBs/PCCs have agreed to conduct quarterly review of violations and enforcement actions at city/district/state level, 02 SPCBs/PCCs are under process to comply this activity and 06 SPCBs/PCCs have not provided any information regarding this activity.

3.5.3 Recommendations

All the SPCBs/PCCs need to follow the action plan for implement of Action Plan.

Software Portal has been developed under OA No 512/2018 of Hon'ble NGT for compliance monitoring of action plan for e-waste management. All the SPCBs/PCCs have to regularly update their information on this portal.

3.6 Bio Medical Waste

3.6.1 Information Status:

In pursuant to the Order dated 12.09.2019 passed by Hon'ble National Green Tribunal (Hon'ble NGT) in the matter of O.A. No. 606/2018, CFCB has received progress report on action plan related to implementation of Biomedical Waste

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Management Rules, 2016. A questionnaire containing 15 nos. of Key Performance Indicators was prepared by CPCB for assessing the implementation status of BMWM Rules, 2016.

22 States/UTs namely Andaman and Nicobar, Andhra Pradesh, Assam, Chandigarh, Chhattisgarh, Daman, Diu and Dadra Nagar Haveli (DD &DNH), Delhi, Goa, Gujarat, Haryana, Kerala, Lakshadweep, Madhya Pradesh, Maharashtra, Manipur, Mizoram, Odisha, Puducherry, Rajasthan, Tamil Nadu, Tripura, have submitted progress report on Gap analysis. Karnataka also provided information but not provided as per desired format. Information pertaining to remaining States/UTs has been taken from Status report submitted by States in the matter of O.A. No. 710 of 2017 filed by Sh Shailesh Singh before Hon'ble NGT.

3.6.2 Observations:

Based on the revised action plan submitted by State Governments/State Pollution Control Boards; status of compliance on Key Performance Indicators prepared by CPCB is given below

Propared by Cr CD is given below								
ř	,	PI	RFORMANCE	OF STATES/UT	s (BMW)		15a 154 24	
; .	S.	Key performance	Good	Average	Poor	Not Pro	*.	
	No.	indicator			1 2001	140111	ivirien	
ٔ ا	1.		Andaman &	Andhra	Assam,	Arunac	hel	-
:]	1.1	Healthcare Facilities		Pradesh,	Maharashtra,	Pradesh		·
	•	and biomedical	Chandigarh,	Chhattisgarh,	Manipur	Himach		٦,
		waste generation	DD & DNH,	Delhi, Goa,]	Pradesh		¥
1			Haryana,	Gujarat,		Jharkha		
			Kerala,	Karnataka,		Meghal	4 *	į,
.			Lakshadweep,	Mizoram,	l	Nagalar		٠,
	.		Madhya	Rajasthan		Punjab,		٠
1	. [Pradesh,	"		Telanga		"]
ŀ	`.		Odisha,	İ		Uttaraki	nand	
١.			Puducherry,		,	Uttar Pr		
۱	`		Tamilnadu,		1	West Be	neal	1
-		April 2 12 15	Tripura	. <u>. </u>	<u> </u>			1
].	- 4	Authorization to all	`	Andaman &	Assam,	Arunach	al	7
1		Healthcare Facilities		Nicobar,	Manipur	Pradesh,	Bihar,	1
ľ		including non- bedded HCFs		Andhra		Himacha	ıl i	
		bedded fichs		Pradesh,		Pradesh,	J&K,	Į,
:				Chandigarh,	_	Jharkhar.	ıd,	
	. : -			Chhattisgarh,		Meghala	ya,	
•				DD & DNH,	,	Nagaland	$\mathbf{d}(0)$	官
1				Delhi, Goa,	•	Punjab, S	ikkim,	1
				Gujarat,		Telangan		1.
	.			Haryana,		Uttarakh		
۱,	` [Karnataka,	ĺ	Uttar Pra		
				Kerala,		West Ben	gal	
				Lakshadweep,	İ	ŀ	1	-[;
· ,	- [Madhya		1	Ē,	J.,
		 -	`.	Pradesh,		1	.1 ' '	1 .

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- 1			···			
i i			RFORMANCE C	F STATES/UTs	(BWM)	BT of 2002 - 2 3 - 3
S. No.		Key performance indicator	Good	Average	Poor	Not Provided
110	+	1		Maharashira,		
	1			Mizoram,	,	
.]	-		••	Odisha,		
	Ţ			Puducherry,	* , · · · · ·	
		·.		Rajasthan,	1	
	١	i.		Tamiinadu,		
	1			Tripura '		<u> </u>
•]	3.	Facilitate setting-up	Andhra	Assam,	Andaman &	Karnataka,
٠, ١		adequate number of	Pradesh,	Chhattisgarh,	Nicobar,	Odisha,
- }		Common	Chandigarh,	DD & DNH.		Arunachal
\cdot		Biomedical Waste	Delhi,	Goa, Gujarat,	, s	Pradesh, Bihar,
- 1	1	Treatment Facilities	Haryana,	Kerala,		Himachal
		(CBWTFs) to cover	Madhya	Lakshadweep,		Pradesh, J&K,
. !	ŀ	entire State or all	Pradesh.	Maharashtra,		Jharkhand,
		HCFs	Tamilnadu	Manipur,	·	Meghalaya,
				Mizoram,		Nagaland,
	. 1			Puducherry,		Punjab, Sikkim,
		ļ.,		Rajasthan,	31 2	Telangana,
j		<u>'</u>	1.	Tripura.		Uttarakhand,
11	,		[:			Uttar Pradesh,
_`Î			10.50	<u> </u>		West Bengal
+	4.	Implementation	DD & DNH,	Andhra	Andaman &	Goa, Karnataka,
.	-11	status of Barcode	Tamilnadu	Pradesh.	Nicobar,	Kerala,
-1		system		Chandigarh,	Assam,	Arunachal
		-,	•,	Chhattisgarh,	Lakshadweep,	Pradesh, Bihar,
		 		Delhi,	Manipur,	Himachal
٠.			`	Gujarat,	Mizoram.	Pradesh, J&K,
٠				Haryana,	Tripura.	Jharkhand,
:]			,	Madhya		Meghalaya,
		<u> </u>		Pradesh,		Nagaland,
4				Maharashtra,		Punjab, Sikkim,
"]				Odisha		Telangana. Uttarakhand,
-			•	Puducherry,		Uttar Pradesh
				Rajasthan		West Bengal
}		<u> </u>	<u> </u>		Manipur	Andaman &
-•	5	L	Andhra	Assam,		Nicobar,
`\		OCEMS by	Fradesh,	Maharashtra,	W 1. 34 13	Chhattisgarh
		CBMWTs as a self-	Chandigarh,	Odisha,		DD & DNH,
1		monitoring tool and	Delhi,	Puducherry		Goa, Gujarat,
1		transmission of data				Karnataka,
ĺ	•	with servers of	Kerala,			Lakshadweep,
		SPCBs/ CPCB	Madhya		1 1	Mizoram,
			Pradesh,		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rajasthan,
-			Tamilnadu			., .
						Tripura, Arunachal
				,		
1 F		1 }	1			Pradesh, Bihar,

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	PERFO	DRMANCE OF STATES	/UTs (BMW)	
S. No.	Key performance. Go indicator	ood Average	Poor	Not Provided
6.	Monitoring of Aric Healthcare Facilities Prac	ihra Andaman & Nicobar,	r Mizoram	Himachal Pradesh, J&K, Jharkhand, Meghalaya, Nagaland, Punjab, Sikkim Telangana, Uttarakhand, Uttar Pradesh, West Bengal Arunachal Pradesh, Bihar,
	Biomedical Waste Dell Treatment Facilities Guja Har Kera Mad Prad Mah	ndigarh, Assam, ni, Chhattisgarl arat, DD & DNH, yana, Goa, da, Karnataka, lhya Lakshadwee	,	Himachal Pradesh, J&K, Jharkhand, Meghalaya, Nagaland, Punjab, Sikkim, Telangana, Uttar Pradesh, West Bengal

Note:

Good-States/UTs which have submitted progress report and completed the action plan.

Average - States/UTs which have submitted progress report but action plan is under process.

Poor - States/UTs which have submitted progress report but action plan is not upto the mark and status of completion is very poor.

Not provided - States/UTs which have not submitted progress report as per O.A. no. 606/2018

As per reports submitted by the States, Observations are as follows:

- Inventory has been completed by 16 out of 35 States/UTs namely Mizoram, Andhra Fradesh, Haryana, Chhattisgarh, Goa, Jharkhand, Delhi, Gujarat, Kerala, Bihar, Uttarakhand, West Bengal, Karnataka, Chandigarh, Punjab and Manipur
- As required under BMWM, Rules, 2016, every non-bedded HCF is required to obtain authorisation for ensuring proper treatment & disposal of biomedical waste, States/UTs like Mizoram, Nagaland, Odisha, Sikkim, UP, Tripura, Haryana, DD & DNH, Goa, Lakshadweep, Jharkhand, West Bengal, Manipur, Delhi, Kerala, Gujarat, Bihar, Karnataka, Telangana, J & K, Uttarakhand, Punjab and Arunachal Pradesh are required to ensure that one time authorisation is granted to non-bedded HCFs.



- In States/UTs such as Bihar, Chhattisgarh, Himachal Pradesh, Jherkahnd, Jammu & Kashmir and Kerala, CBWTFs are not adequate to cater all HCFs located in the States/UTs,
- Deep Burial is still practiced in States/UTs namely Andaman & Nicobar, Arunachal Pradesh, Bihar, Chhattisgarh, Goa, Himachal Praesh, Jharkhand, Karnataka, Kerala, Lakshadweep, Madhya Pradesh, Maharahstra, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Rajasthan, Sikkim, Tamilnadu, Tripura, Uttarakhand.
- Implementation of bar code system is not yet completely implemented in States/UTs namely Andaman & Nicobar, Assam, Jammu & Kashmir, Odisha, Uttar Pradesh, West Bengal, Jharkhand, Madhya Pradesh, Rajasthan and Tamil Nadu.
- Action plan related to monitoring of implementation to BMWM Rules,
 2016 by Healthcare Facilities is not completed by Nagaland, Odisha,
 Sikkim, Andhra Pradesh, Manipur, Kerala, Meghalaya, and Karnataka.
- Online emission monitoring systems is not yet installed in CBWTFs of all States/UTs
- Training and capacity building programs is still lacking in few States/UTs like Mizoram, Nagaland, Odisha, Sikkim, J& K, Tripura, DD & DNH, Delhi, Meghalaya, Puducherry, Rajasthan, Kerala, Bihar, Manipur and Karnataka.

3.6.3 Recommendations:

State-wise progress report on revised action plan along with recommendations are given at Annexure-X

3.7 Hazardous Waste

3.7.1 Information Status

In this regard, a format on compliance of Hazardous & Other Waste (Management and Transboundary Movement) Rules, 2016 has been prepared requesting all Chief Secretaries of all States/UTs to provide compliance status report. The format covers aspects such as Action plan along with time line for implementation of orders of Hon'ble Tribunal, Current Status of implementation. Gaps identified for implementing the directions of Hon'ble Tribunal, Details of state level committee constituted for the purpose of compliance of HOWM Rules, 2016.

In response to the said format, States/UTs wise responses 20 SPCBs/PCCs have been compiled and provided as Annexure XI. List of the 20 SPCBs/PCCs who have responded to the format is as given below:

STATUS OF INFORMATION	PROVIDED BY STATES/UTs (HWM)
SPCBs/PCCs Responded	SPCBs/PCCs not Responded
Andhra Pradesh	:. Andaman & Nicobar
Assam	Arunachal Pradesh
· ! Chandigarh	Bihar ,
Chhattisgarh	Gujarat
DD & DNH	Himachal Pradesh
Delhi	Jammu & Kashmir

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Goa	Jharkhand !!
Haryana	Karnataka
Kerala	Meghalaya
Lakshadweep	Nagaland
Maharashtra	Sikkim
Madhya Pradesh	Telangana
Manipur	Uttar Pradesh
Mizoram	Uttarakhand
Odisha	West Bengal !!
Puducherry	
Punjab	
Rajasthan	
Tamilnadu .	111
Tripura	<u> </u>
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3.7.2 Observations

The summary of the status of implementation of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 based on the information received in the format circulated in the matter of O.A no. 606/2018 has been assessed for performance of the States/UTs based on key indicators namely, Hazardous Waste Authorization, Annual Inventory, Common TSDFs, Enforcement Action, Capacity Building.

The performance of the states/UTs based on key indicators w.r.t implementation of HOWM Rules, 2016 is provided in Table below.

		Performa	nce of the Sta	ites/UTs (F	IWM)	1		
S. No.	Key Indicators	Status of imp	ementation of HO	mentation of HOWM Rules, 2016 in the matter of O.A.no. 606/2018				
		Goods	Average	Poor	Relevant information not submitted	States/UTs not responded (15 States/UTs)		
1.	Hazardous Waste Authorization (Adoption and enclosure of Uniform hispection report with authorization granted in silpulated timeframe; Clarity on mode of management)	Andhra Pradesh, Madhya Pradesh, Chhaitisgarh, Odisha and Rajasthan	Assam, Goa, Chandigarh, Mahnrashtra, Tamilnadu, Deihi and Tripura	Puducherry	DDDNH Haryana, Manipur, Mizoram, Kerala and Punjab	Andaman & Nicobar, Arunachal Pradesh, Biher, Gujarat, Himechel Pradesh, Jammu & Kashmir, Jharkhand Kamataka Meghalaya,		
2	Annual Inventory (Submitted for 2018-19 and provided all formats)	, Chhattisgarh, Delhi, Gos, Haryana, Kerala, Maharashtra, Madhya Pradesh, Mizoram, Odisha, Puducherry, Tamilnadu and Tripura	Assam and Manipur		DDDNH, Funjab and Rajasthan	Nagaland, Sikkim, Telangana Uttar Pradesh, Uttarakhand, West Bengal		
3.	Common TSDFs (Available or Action initiated for establishment of	Maharoshtra,	Assam, Chandigath, Chhaltisgarh, Delhi, Goa,	Mizwant Puducherry and Tripura		2		

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		Performa	nce of the Sta	ites/UTs (H	IWM)	<i></i>
, B.	Key Indicators	Status of impl	ementation of HO	//M Rules, 2016	in the matter of O.A	no. 606/2018 :
No.		Good	Average	Poor	Relevant information not submitted	States/UTs not responded (15 States/UTs)
	TSDF and opening of Escrow account)	Odisha, Punjab, Kajasthan and Tamiinadu	Kerala and Manipur	•		
4.	Enforcement action (Non-compliances action taken thereof and recondilation of Manifest document)	Madhya Pradesh, and Tamlinadu	Goa, Chhattisgath, Chandigarh, Maharashtra, Manipur, Fuducherry, Dellii, and Tripura	Assam	Andhra Pradesh, DDDNH, Haryana, Kerala, Pinjab, Mizoram, Odisha, and Rajasthan	
1. The state of th	Capacity building (Availability of Laboratory facility for analyses of all parameters listed under Schedule II of HOWM Rules, 2016)	Andhra Pradesh, Chandigarh, Goa, Haryana, Kecala, Maharashtra, Madhya Pradesh, Mizoraun, Odisha, Rajasthan, Tamilnadu and	Chhattisgarh and Delhi	Assam, Manipur and Puducherry	Punjab and DDDNH	nce governity vidis kg

Notes in case of Lakshadweep, the performance categorization has not been carried out as the number of hazardous waste generating units has been reported as nill however, it is expected that hazardous unsies such as used/tonste oil, used lead acid batteries, etc. are generated from automobiles workshaps/serote stations/etc.

3.7.3 Recommendations:

For effective implementation of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 concerned SPCBs/PCCs and State Govt./UT Admin are requested to ensure the following:

- It is recommended that 05 SPCBs/PCCs (namely Dadar Nagar Haveli & Daman & Diu; Haryana; Lakshadweep; Manipur and Nagaland) directed to submit the status on implementation of recommendations made by the Monitoring Committee in its interim report, as CPCB has not received any information from these SPCBs/PCCs.
- SPCBs/PCCs need to implement 25 action points, out of which 11 action points needs to be implemented immediately and other 14 in regular and non-immediate manner. It is recommended that SPCBs/PCCs which are not complying with the recommendations made by Monitoring Committee should submit the status report to CPCB immediately.
- iii. It is recommended that till National Hazardous Waste Tracking System (NHWTS) which is being developed by CPCB is made functional, SPCBs/PCCs may be directed to ensure and verify reconciliation of manifest.
- iv. SPCBs/PCCs shall strictly follow the guidelines for inventorization of hazardous and other waste issued by CPCB and ensure verification and validation of the annual returns submitted by the occupiers/retycler/pre-processor/utilizer/co-processor operator of disposal facilities including submission of the annual inventory to CPCB within the stipulated time period:

- v. It is recommended that SPCBs/PCCs (namely Himachal Pradesh, Sikkim, Punjab, Kerala and Jharkhand) which have reported non-compliance but not taken any action shall be directed to take action against such violators as per provisions of HOWM Rules, 2016.
 - a. Further, it is also recommended that SPCBs/PCCs may be directed to initiate actions against all such units which are violating one or other provisions of HOWM Rule, 2016 including non-compliance to the documenting submission such annual returns, manifest document, etc.
- vi. It is recommended that the timeline provided by the SPCBSs/PCCs with regard to adopting waste management hierarchy (as stipulated in the HOWM Rules) to ensure the level playing for the industries shall be strictly adhere to.
 - a. Further, SPCBs/PCCs shall also initiate development of certain benchmarks/guidelines for the possibility of hazardous waste recycling/utilization on case to case to basis as most of the SPCBs/PCCs have not taken any initiative on the same.
- vii. It is recommended that SPCBs/PCC may be directed to initiate development. of sectoral process based HW generation range to have uniformity in assessing, the HW generation from industries and benchmarking the same.
- viii. It is recommended that SPCBs/PCCs of (Karnataka, Maharashtra, Rajasthan, Kerala and Uttrakhand) having Common TSDF to immediately open the Escrow Account as per O.M of MoEF&CC including deposition of mandatory amount.
 - a. Further, SPCBs/PCCs of Gujarat, Jharkhand, Karnataka, Odisha, Rajasthan, Tamil Nadu and West Bengal shall take action against the Common TSDF(s) for not displaying the details of mandatory amount deposited in the Escrow Account on their website.
- ix. SPCBs/PCCs may be directed to expedite conducting of environment audit of the Common/Captive SLFs in the time bound manner as specified in the Interim Report of the Monitoring Committee Report.
- SPCBs/PCCs have reported that out of 30 SPCBs/PCCs only 19 are having laboratory facilities for analysis of all hazardous waste parameters as required under HOWM Rules, 2016. Therefore, it is recommended that all the remaining 11 SPCBs/PCCs (Andaman and Nicobar Islands, Arunachal Pradesh, Delhi, Goa, Jammu & Kashmir, Jharkhand, Meghalaya, Odisha, Puducherry, Sikkim and Uttrakhand) should be equipped with all the facilities for analysis of all hazardous waste parameters as required under HOWM Rules, 2016.
- xi. It is recommended to direct States/UTs (namely Andaman and Nicobar Islands, Assam, Arunachal Pradesh, Bihar, Chhattisgarh, Chandigarh, Delhi,

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Goa, Jammu & Kashmir, Lakshadweep, Manipur, Meghalaya, Mizoram, Nagaland, Puducherry, Tripura and Sikkim) where common TSDF is not available to immediately set up adequate number/capacity of Common TSDFs in such States/UT.

Chief Secretaries of the States/UTs may be directed to submit biannually compliance report to CPCB by collecting information from the State Government/ Departments like Labour/Industries/Environment and SPCBs/PCCs.

3.8 100 Industrial Clusters

3.8.1 Information Status:

CEPI is a rational number between 0 and 100, assigned to a given location to haracterize the environmental quality following the algorithm of source, pathway and receptor. CPCB, conducted environmental quality monitoring in 100 industrial clusters/areas located in 21 states across the country for CEPI evaluation based on the revised CEPI-2016 under MoBFCC sponsored project during Dec. 2107 -March 2018. Thereafter, CPCB undertook evaluation of CEPI scores.

As a result of CRPI evaluation during Dec. 2107 –March 2018, following is the number of CPAs/SPAs

CPAs: Nos. of PIAs with CEPI scores ≥ 70 is 38

SPAs: Nos. of PIAs with CEPI scores ≥ 60 & < 70 is 31

OPAs: Nos. of FIAs with CEPI scores < 60 is 31

It is to be noted that 69 CPAs/SPAs are located in 20 States/UTs.

In compliance with Order dated September 12, 2019 in OA No. 606/2018 information has been received from eight state/UTs(Andhra Pradesh, Chhattisgarh, Delhi, Gujarat, Kerala, Madhya Pradesh, Maharashtra, Rajasthan) State-wise information received is enclosed at Annexure XII. 12 States/UTs which have not provided information on CPAs include Assam, Bihar, Haryana, HP, Jharkhand, Karnataka, Odisha, Punjab, Tamil Nadu, UP, Uttarakhand, Telangana and West Bengal.

3.8.2 Observations:

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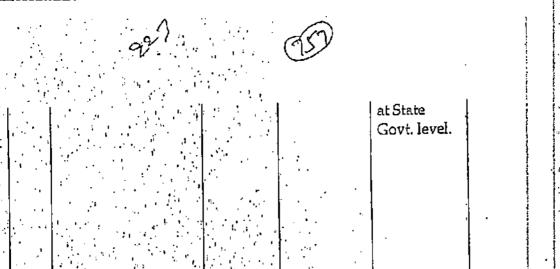
Information received from the nine States/UTs have been assessed with respect to three key parameters. An overview of the assessment is given in the table below:

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PERFORMANCE OF STATES/UTs (CPA/SPA)						
S.n ' o	State		No Of CPA/SP A	Status of constitution of	Status of submission of action	Status of SPCBs Performanc
			n e	committee	plan	e for 100 Industrial clusters
1	ANDHRA PRADESH	1 1 1 1	1	Committee constituted for structuring action plan	Action plan Submitted for Vijayawada on 12.3,2019.	Very Good
2	CHHATTI	SGARH	2	29.1.2019. Committee constituted for structuring action plan on 24.1.2019.	Action plan Submitted for Siltara IA and Raipur on 28.3.2019.	Very Good
3	DELHI		1	Committee constituted for structuring action plan on 20.2.2019.	Action plan Submitted for Najafgarh Drain basin 16.4.2019.	Very Good
4	GUJARAT		.7	•	Updated / new Action Plan for six CPAs and one SPA of Gujarat has been	Good
					prepared by GPCB and submitted the same to CPCB Delhi and	
					Regional Directorate, CPCB West Zone, Vadodara	
					on	<u> </u>

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3.8.3 Recommendations:

- i. The concerned States/UTs to prepare and submit action plans within three months for improvement of environmental quality in the CPAs/SPAs, prohibition of non-complying pollution activities
- ii, The concerned SPCBs/PCCs to levy and recover environmental compensation from non-complying units/ common facilities.

3.9 Status of CETPS/ETPs

3.9.1 Information Status

In compliance with Order dated September 12, 2019 in OA No. 606/2018 information has been received from twelve state/UTs (Andhra Pradesh, Delhi, Gujarat, Haryana, Karnataka, Kerala, MP, Maharashtra, Punjab, Rajasthan, Tamil Nadu and Tripura) State-wise information received is enclosed at Annexure XIII. It may be noted that 191 operational CETPs are located in 19 States/UTs. 7 States/UTs which have not provided information on CETPs are namely Himachal Pradesh, Jharkhand, Uttar Pradesh, Uttarakhand, West Bengal, Telangana and Jammu & Kashmir,

Information on ETPs have been provided by 13 States/UTs (Andhra Pradesh, Delhi, Gujarat, Haryana, Karnataka, Kerala, MP, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Chhattisgarh and Tripura). Remaining States/UTs have not provided information on the matter

Information containing current status, desirable level of compliance in terms of statutes, gap between current and desired levels and proposal of attending the gap with time lines is given as Annexure-XIII

3.9.2 Observations

The information received from the States/UTs has been assessed for key parameters. An overview of the assessment is given in the table below:

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			•			(738)		
PE	RFOR	MAN	CE OF STATE	S/UTs (C	TETPs)			
					No. of CETPs with			Ranki ng of SPCB s on
ST.	No.		State .	No. of CETPs	the inlet quality standards prescribed	No. of Non- Complying CETPs	Percentage of CETPs Non- complying	basis of CETP s
			·		by the SPCBs			Funct ionin
		1	# 15 15 15 15 15 15 15 15 15 15 15 15 15	: 4.3	a janko s	4.4		g
1	. 1 e 1		Tamil Nadu	36	0	3	8	1
2.		يوسية جاره همسموا إلياما وسيد	Karnataka	10	7	1	10	2
3			Maharashtra	25	22	3.	12	3
4			Andhra Pradesh	6	5	1	16	4
5			Punjab	4	0	1	25	5
6			Kerala	6	0	2	33	6
7		-	Haryana	19	14	9	47	7
8		The state of the s	Madhya Pradesh	2	2	1	50	8
9		A second of the	Gujarat	33	33	17	51	9

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•	PERFORMA	NCE OF STATI	ES/UTs (CETPs)		1	1	Silver .
	SI, No.	State	No. of CETPs	No. of CETPs with the inlet quality standards prescribed by the SPCBs	No. of Non- Complying CETPs	Percen of CET Non- comply	Ts	Rankis ng of SPCB s on basis of CETP s Funct ionin g
	10	Rajasthan	15	713	11	73		10
	11	Delhi	13	13	12	92	21.7	11
	12	Tripura	1	1.	1	100		12

3.9.3 Recommendations

- (i) Proper technological combination for CETPs has to be identified by engaging Expert agencies
- (ii) Separate treatment technology should be provided for hazardous waster, high TDS and toxic effluents
- (III) CETP operators should be given proper knowledge and training for operation and maintenance of CETPs

3.10 351 Polluter Stretches in the country

3.10.1 Information Status

- 1. Based on water quality monitoring carried out in the years 2016 and 2017, CPCB identified 351 polluted river stretches in the Country. The criteria pollutant, Biochemical Oxygen Demand (BOD) was considered for identification and prioritization of polluted river stretches in the country.
- 2. Hon'ble NGT vide orders dated 20.09,2018, 19.12.2018 & 08.04.2019 in OA No 673/2018 in the matter of News item published in "THE HINDU" titled "More river stretches are now critically polluted: CPCB" directed all State Governments and UT Administrations to prepare action plans for restoration of identified Polluted River Stretches and execution of approved action plans within 2 years



(from 1st April, 2019) for bringing all the polluted river stretches to be fit at least for bathing purposes (i.e. BOD <3 mg/L and FC <500 MPN/100 mL).

- As per Hon'ble NGT order dated 8.4.2019, States/ 'UTs were are also required to submit performance guarantee (for No. of Polluted River Stretches in a State/UT > 10; 5 to 10 &< 5, the performance guarantee in Rupees 15 Crore, 10 Crore& 5 Crore respectively).
- 4. As per Hon'ble NGT order dated 8.4.2019, Assam, Manipur & UP State are liable to pay compensation in terms of order dated 19.12.2018 for delay in submission of action plans within a month to CPCB.
- 5. As per Hon'ble NGT order dated 8.4:2019, Delki, Meghalaya, Nagaland, Tamil Nadu, UP & Uttarakhand are liable to pay compensation as per order dated 19:12.2018 for delay at the scale of 50% of the compensation payable by the States which have failed to submit complete action plans. State-wise information received for Hazardous Waste is attached as Annexure-XIV

3.10.2 Observation:

The information provided by the States /UTs have been assessed for key parameters. An overview of the assessment is given below:

PERFORMA	NC OF STATES/UTS	(Polluted River Streches)
Parameter/ Best	Average	Poor No
Thematic Performing		information
area	· · · · · · · · · · · · · · · · · · ·	
351 (on the basis	(On the basis of	(On the basis of
	submission of	compensation imposed
River Task team in		by Hon ble NGT for
Stretches in Ist review)	timelines)	submission of incomplete
the		action plans and delay in
Country		submission)
1. Gujarat	1. Andhra Pradesh	
2. Haryana	2. Bihar	1. Tamil Nadu
3. Himachal		2. Nagaland
Pradesh	4. Daman, Diu and	
4. Kerala	Dadra Nagar	4. Manipur
5. Punjab	Haveli	5. Meghalaya
6. Telangana	5. Goa	6. Assam
7. West Benga	I 6. Jammu &	7. Utfar Pradesh
]-	Kashmir	8. Uttarakhand
	7. Jharkhand	
	8. Kamataka	
1	9. Madhya Pradesh	
	10.Maharashtra	
	11.Mizoram	
	12.Odisha	
] . .	13.Puducherry	
	14. Rajasthan	



15.Sikkim
16.Tripura

CPCB's observations based on the above assessment is given below:

- i. All States and Union Territories have submitted action plans approved by River Rejuvenation Committee (RRC) of respective State Govt./ UT Administrations.
- ii. CPCB has reviewed action plans w.r.t. Priority I and Priority II polluted river stretches. CPCB has reviewed action plans w.r.t. Priority I and Priority II polluted river stretches. So far, 60 action plans out of 61 Priority I and Priority II polluted river stretches pertaining to 18 States & 1 UT have been approved by CPCB Task Team.
- iii. Out of 31 States/ UTs, 12 States/UTs (Daman, Diu and Dadra Nagar Haveli, Delhi, Goa, Gujarat, Haryana, Jharkhand, Madhya Pradesh, Manipur, Mizoram, Odisha, Puducherry, West Bengal) have submitted Performance/ Bank Guarantee to CPCB.
- iv. None of the States (Assam, Delhi, Manipur, Meghalaya, Nagaland, Tamil Nadu, UP & Uttarakhand) have submitted compensation for delay in submission of action plans or submission of incomplete action plans to CPCB

3.10.3 Recommendations

- 1. All States/ UTs are required to ensure implementation of all action plans within 2 years (from 1st April, 2019) for bringing all the polluted river stretches to be fit at least for bathing purposes (i.e. BOD <3 mg/L and FC <500 MPN/100 mL).
- ii. States/ UTs viz Andhra Pradesh, Assam, Bihar, Chhattisgarh, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Maharashtra, Meghalaya, Nagaland, Punjab, Rajasthan, Sikkim, Tamil Nadu, Telangana, Tripura, Uttar Pradesh and Uttarakhand are required to submit Performance/Bank Guarantee to CPCB.
- iii. States/UT (Assam, Delhi, Manipur, Meghalaya, Nagaland, Tamil Nadu, UP & Uttarakhand) to submit compensation for delay in submission of action plans or submission of incomplete action plans to CPCB

3.11 Rejuvenation of water bodies.

3.11.1 Information Status:

(162)

Hon'ble NGT vide order dated 10.5.2019 in O. A. No 325 of 2015 M.A. No 26/2019 in O.A. No. 325/2015 in the matter of Lt. Col. Sarvadaman Singh OberoiVs UOI or before Hon'ble NGT, PB, New Delhi directed all the States and UTs to review the existing framework of restoration all the water bodies by preparing an appropriate action plan within three months and furnish to the CPCB.

CPCB prepared Indicative Guidelines for Restoration of Water Bodies and circulated to all States/ UTs sothat it can be used as a reference for preparation of jaction plans for restoration of water bodies in respective States/UTs in compliance to Hon'ble NCT order dated 30.5.2019 in O. A. No 325/2015. State-wise information received for Polluter Stretches and Rejuvenation of water bodies is attached as Annexure XV.

3.11.2 Observation:

information provided by States/UTs have been assessed for key parameters. An overview of the assessment is given in the table below:

1	٤.	<u> </u>		<u></u>	
·	PJ	RFORM	INCE OF STAT	ES/UTs (Rejuvenatio	
			(on the basis	(on the basis of	(for non-submission of
- 1	1	Water	of review by	submission of	action plan)
٠,	B	dies	Expert	action plans)	
	7		Committee)		
. [ń	·	·	1. Andaman and	1. Andhra Pradesh
1	ij.		None	Nicobar Islands	2. Arunachal Pradesh
1		, i		2. Chandigarh	3. Assam
: [4		·	3. Chlattisgarh	4. Bihar
ل	,			4. Haryana	5. Dadra and Nagar
	-			5. Meghalaya	Haveli
				6. Tamil Nadu	6. Daman and Diu
- 1				7. Tripura	7. Delhi
1	, 3				8. Goa
٠,	;÷.				9. Gujarat
ŀ	٠,	, [10. Himachal Pradesh
1	٠,				11. Jammu and Kashmir
Į.					12. Jharkhand
Ť			,		13. Karnataka
ŀ			,		14. Kerala
ľ				, .	15. Lakshadweep
ŀ	. '		,		16. Madhya Pradesh
					17. Maharashtra
					18. Manipur
1	.;				19. Mizoram
1	; ']		,		20. Nagaland
ľ					21. Odisha
1	``	3	·	,	22. Puducherry
ŀ	1		•		
ı	į.				23. Punjab
ŀ	Ü				24: Rajasthan
L	::!		•		25, Sikkim

•				
	5 6 6 6		26. Telangana	
· ·			27. Uttar Pradesh	1
			28. Uttarakhand	1
		."	29. West Bengal	

CPCB's observations based on the above assessment is given below:

- Out of 36 States/ UTs, only 5 States provided action plans for restoration of water bodies.
- ii. None of the States have submitted action plans in line with indicative guidelines for restoration of water bodies circulated by CPCB.
- iii. Based on water quality assessment of lakes, ponds & tanks in the year 2018, out of 435 locations monitored, 357 locations were not complying to the primary water quality criteria for bathing.

3.11.3 Recommendations:

The response from the States/UTs is not adequate to ensure restoration of all polluted water bodies (Lakes or Ponds) which may be attributed to

- 1. No basic information on water bodies is available as the ponds or lakes are owned by both public and private owners.
- 2. Data on water quality of water bodies may not be readily available to arrive at the water body is polluted or not.
- 3. No provisions for prioritisation of water bodies;
- 4. Lack of knowledge or guidelines on the subject matter; and
- 5. There is confusion among the States/UTs w.r.t the definition of water bodies as it covers all running water bodies as well as stagnant water bodies such as lakes or ponds or tanks. Clarity should be given in this regard.

In view of above, Hon'ble NGT may consider following actions as proposed by CPCB and to consider extension of appropriate time for preparation of action plans for restoration of water bodies (especially polluted ponds or lakes) by the States/UTs and thereafter CPCB to review the action plans received from States/UTs as well as implementation of action plans by the concerned States/UTs.

Expert Committee constituted by CPCB suggested CPCB for seeking time of six months for finalisation of the guidelines for restoration of Ponds or Lakes. However, CPCB will make all possible efforts to finalise the same within four months' time.

Thereafter, all the concerned States or UTs may finalise and submission of action plans within four months to CPCB as well as implementation of approved action plans in a time frame of not more than two years. Details of activities to be performed are detailed below:

PROPSOED ACTIVITIES FOR REJUVENATION OF WATER BODIES

(184)

S.N	Activity Proposed	Organization Responsible	
1	Identification and Geo- Tagging of Ponds or Lakes in the Country	NR5A, State Space Application Centre and Concerned State Departments	
2	Assessment of Water Quality of Ponds or lakes	Through Laboratories approved under E (P) Act, 1986 by the Concerned State Department/ULBs/State Environment Dept. / SPCB/PCC	
3	Prioritization of Ponds or Lakes for restoration in consultation with the respective SPCB	State Environment Department/ SPCB/PCC	
4	Preparation and submission of action plans for restoration of prioritized ponds or Lakes to CPCB for random scrutiny of proposed action plans	State Environment Department/SPCB/PCC	
	Execution of approved action plans	State Environment Department/ SPCB/PCC under the overall supervision of Principal Secretary, Environment Department	

3.12 Non-attainment cities

3.12.1 Information Status:

122 non-attainment cities are located 23 States/UTs. In compliance with Directions of Hon ble NGT to matter (O.A. 606/2018), no information has been provided by 16 states - Jammu & Kashmir, Jharkhand, Himachal Pradesh, Meghalaya, Nagaland, Orissa, Punjab, Telangana, U.P., Uttrakhand, West Bengal, Bihar, Tamilnadu, Karnataka, Chandigarh and Assam, on the thematic area. Detailed information provided by remaining 7 State/UTs (Andhra Pradesh, Chhattisgarh, Maharashtra, Delhi, Gujarat, Madhya Pradesh & Rajasthan) is placed at Annexure

3.12.2 Observations

Information received from 07 States / UTs have been assessed for key parameters and the same is given below

Performance of St	Performance of States/UTs (Non-attainment Cities)				
Parameter		Performance of States		No information	
	Good	Average Poor		Available	
Submission of	Chhattisgarlı	Andhra Pradesh			
city action plans	Delhi				
	Gujarat				

(165)

Parameter	Performance of States No info			No information
	Good	Average	Poor	Available
	Madhya Fradesh	a (2)		1000000
	Maharashtra	1 gr		
	Rajasthan	7.		1 1 15
Evaluate existing	Andhra Pradesh			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ir quality	Chhattisgarh			
nonitoring	Delhi			
nechanism	Gujarat			
	Madhya Pradesh	1.		
	Maharashtra			
	Rajasthan		ŗ	
reparation of Air	-do-		+	- 11 233
Quality			<u></u>	
Monitoring			` · •	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Committee		<u> </u>	<u> </u>	1 112 38
submission of	Chhattisgarh	4	Andhra Pradesh	- 接法公司
Quarterly	Delhi		Maharashtra	l 16 . %.
rogress Report	Madhya Pradesh			
	Rajasthan		, ,	
	Gujarat			
ubmission of		Chhattisgarh	Andhra Pradesh	es o a o morante
onsent Fund		14	Delhi	
)etails			Gujarat	
		1	Madhya Pradesh	
			Maharashtra	
		4	Rajasthan	
evelopment of	Delhi	Maharashtra		Andhra Pradesh
ublic	Madhya Pradesh			Chhattisgarh
omplaint				Gujarat
edressal			•	Rajasthan
nechanisms				
ubmission of		Delhi		Andhra Bradesh
mergency		7.77		Chhattiegarli
esponse System				Gujarat
			. ,	Madhya Fradesh
				Maharashtra
				Rajasthan

*Good: Component Submitted, Average: component partially submitted; Poor: no information submitted

CPCB's observations based on the above assessment are given below:

- i. In compliance with directions of Hon'ble NGT in the matter (O.A. 606/2018), out of 122 cities in 23 States/UTs (102 + 20), status is received from only 39 cities (07 States)
- ii. City action plans prepared through respective State Air Quality Monitoring committee (AQMC) and approved for implementation for 39 non-attainment (NA) cities in 07 States.

Public Complaint Redressal Mechanisms (PCRM) is to be prepared by all the states harbouring Non-attainment cities. Out of 39 PCRM developed by 10 cities.

Out of 39 cities Quarterly Progress Report is received from 17 cities.

v. Emergency response system to be developed by all States/Uts is part of order, and no compliance status received from any of the state, except Delhi.

vi No information/ proper information on details of consent funds along with action plan as per Hon'ble NGT's order provided by all 7 States.

3.12.3 Recommendations:

Compliance status/Quarterly Progress Report may be submitted as per enclosed format (Annexure XVI A).

Public complaint redressal mechanism is to be prepared by all the States/UTs harbouring Non-attainment cities, as per Hon'ble NGT order dated November 21, 2019 (O.A. 681/2018), the portal is to be developed and report to be submitted by respective States to CPCB within 2 months from the order.

Andhra Pradesh and Tamil Nadu to submit city action plan of newly added non-attainment cities in their state by January 31, 2020, as per Hon'ble NGT order dated November 21, 2019 (O.A. 681/2018).

iv. Emergency response system to be developed by all states and submitted to CPCB by December 20, 2019, as per Hon'ble NGT order dated November 21, 2019 (O.A. 681/2018).

Details of consent funds along with action plan as per Hon'ble NGT order dated August 06, 2019 (O.A. 681/2018) to be provided by all states, latest by January 31, 2020.

The States/UTs which are able to successfully control air pollution in measurable terms in respect of 122 NACs may place their successful models and best practices on their respective websites for the benefit of others. (Hon'ble NGT order dated August 06, 2019 - O.A. 681/2018)

3. 3 Illegal sand mining.

3.13.1 Information Status:

Total 11 States and Union Territories (Andhra Pradesh, Chliattisgarh, Dadra and Nagar Haveli, Delhi, Goa, Gujarat, Kerala, Madhya Pradesh, Maharashtra, Rajasthan, Tripura) have submitted information regarding the illegal mining. The information provided is per the points and directions of Hon ble NGT OA No. 606/2018 order dated-12.09.2019 Para 4 by Tripura and Madhya Pradesh. State-wise information received for Illegal sand mining is attached as Annexure XVII.

3.13.2 Observations

CPCB's observations on the information submitted by the States/UTs is given below:

- i. Information regarding action taken in respect of illegal mining in the States/UTs has been reported in the information provided by States/UTs.
- ii. No illegal mining has been reported by Dadra and Nagra Haveli, Delhi, Kerala and Tripura.
- iii. Brief of action taken by States/UTs regarding the illegal mining is as follows:
 - Local regulations framed regarding sand mining operation
 - Special Committee at District level setup for implementation of regulations of sand mining.
 - Meetings held at State/District level on the matter.
 - Steps taken in compliance of Hon'ble NGT cases regarding illegal mining applicable to individual states/UTs.
 - Cases of illegal mining and amount recovered therein reported.

3.13.3 Recommendations:

i. All States and UTs should submit the information in the matter of Hon'ble NGT OA No. 606/2018 as per Para 4 of order dated-12.09.2019 regarding the illegal sand mining.

3.14 Ground water extraction/contamination and re-charge

The States/UTs have not provided any status on the issue-illegal extraction of ground water, hence, CPCB has no comments to offer. A note has been prepared w.r.t Ground Water extraction issues and is enclosed at Annexure XVIII.

Item No. 04 & 05

Court No. 1

BEFORE THE NATIONAL GREEN TRIBUNAL PRINCIPAL BENCH, NEW DELHI (Through Video Conferencing)

Original Application No. 804/2017
(Earlier O.A. No. 36/2012)
WITH
M.A. No. 1302/2018
IN
Interlocutory Application No. 63
IN
W. P. (C) No. 657/1995

Rajiv Narayan & Anr

Applicant(s)

Versus

Union of India & Ors.

Respondent(s)

With

CORAM:

For Applicant(s):

The Research Foundation for Science, Technology And Natural Resource Policy

Applicant(s)

Versus

Union of In<mark>d</mark>ia & Ors.

Respondent(s)

Date of hearing: 12.04.2019

HON'BLE DR. NAGIN NANDA, EXPERT MEMBER

Mr. Raj Panjwani, Senior Advocate

Ms. Meera Gopal, Advocate

Mr. Rahul Choudhary, Advocate

For Respondent (s): K. Enatoli Sema and Mr. Amit Kumar Singh Advocates

HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON

for State of Nagaland

Mr. Manish Kumar, Advocate

Mr. Sriansh Prakash and Mr. Raj Kumar Maurya,

Advocates for EDMC

Mr. Daleep Dhyani, Advocate for UPPCB Mr. Amit Tiwari, Advocate for SOUP Mr. Raj Kumar, Advocate for CPCB

ORDER

 The issue for consideration is non-compliance of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. The status reports filed by the States were considered with reference to the following:

- "1. As to what is the total generation of hazardous waste in their respective States.
- 2. Which agencies have been authorized in terms of rules to collect, transport, disposed of and the process of the hazardous wastes.
- 3. What is the capacity of the plants which have been given due authorization for that purpose.
- 4. What happens and how the remnant hazardous waste is being dealt with.
- 5. The members who have been allotted any of the authorized plants and are not sending hazardous waste to those plants. What action the concerned authorities i.e. the State Government and the respective States and State Pollution Control Boards have taken so far, against such members.

These details should be filed within one week from today."

- 2. Vide order dated 30.07.2018, the Tribunal found that Central Pollution Control Board (CPCB) was required to prepare a consolidated review report every year under Rule 20, based on reports of the State Pollution Control Boards (SPCBs). The Tribunal directed as follows:
 - "(i) All the States, where the hazardous waste is being generated must set up Treatment, Storage and Disposal Facility (TSDF) facility of adequate capacity at appropriate locations within three months from today and forthwith imitate action against erring units.
 - (ii) Central Government and Central Pollution Control Board must forthwith monitor the compliance of the rules by reviewing the need for action in all the states.
 - (iii) The Central Pollution Control Board may forthwith constitute a monitoring Committee for the purpose it may appoint a Nodal Officer exclusively to oversee the compliance of the rules. The Member Secretary CPCB may act as a Nodal Officer till a substitute is found. The action taken must be placed on the website of the Central Pollution Control Board within 3 months from today. Compliance report be filed before this Tribunal on or before 30th November, 2018, which will be treated as a separate application."

- 3. Setting up of Treatment, Disposal and Storage Facility (TSDF) being an urgent and important requirement which was required to be monitored as above. In compliance of the directions of the Tribunal, an affidavit has been filed on 08.02.2019 by the CPCB stating that on 09.08.2018 a Monitoring Committee was constituted headed by Dr. Ajay A. Deshpande, former Expert Member, NGT. CPCB also issued directions under Section 5 of the Environment (Protection) Act, 1986 on 30.01.2019 for all the SPCBs/Pollution Control Committees (PCCs) as follows:
 - "a) Ensure that all the solvent recovery industries in the state have mandatory Authorisation for the same in compliance with the SOP and Checklist issued by CPCB for solvent recovery units, within one month. The said SOP and checklist have been circulated to all SPCBs/PCCs vide letter no. B29016/(SC)/1(55-IV)/17-18/WM-II/18152-86 dated 08/3/2018 and is also available at CPCB website http://cpcb.nic.in/uploads/hwmd/utilizaionspent solvent.pdf.
 - b) Ensure that these solvent recovery industries shall immediately follow the SOP, for safe and scientific spent solvent handling, processing and storage.
 - c) Ensure that such solvent recovery units shall comply with the provisions of HOWM Rules, 2016, in terms of interstate transport of Hazardous waste and manifest document prescribed under Rule 18 and 19 of the HOWM Rules, 2016, with immediate effect. Stringent action be taken against the erring industries who are giving the spent solvent to such recycling industries without following the manifest systems.
 - d) Conduct industry interaction programs within a month to create awareness and sensitization on HOWM Rules, 2016 with all the stakeholder industries of Spent Solvent generation/utilization.
 - e) Prepare an inventory of such solvent recovery units and publish the same on their website for information of all, stakeholders within one month with copy to CPCB within one month."
- 4. The Monitoring Committee furnished its interim report in compliance of orders of this Tribunal after reviewing the various aspects of enforcement of the Rules proposing actions as follows:

" Sl. Observations Proposed A	Actions (Re	sponsible
-------------------------------------	-------------	-----------

No.		Agency and timeline of action)
1	Hazardous waste	1. There is a need to urgently
	identification: - Uniformity	prepare a guidelines or protocol on
	in assessment, Byproducts	how to decide the by-product on
	and solvents (Details in	specific criteria. This can be done
	Chapter 4 – Section 4.1.1)	based on chemical process involved
	a. The Rules define by-	in order to bring consistency in
	products very categorically	approach.
	linking it to its intended use.	(MoEF&CC and CPCB: 06 months)
	Presently, there is no	2. Other waste is presently missing
	verification or appraisal of such continuous intended use	from all the regulatory actions, including inventory. It is necessary
	before classifying certain	to bring such waste in regulatory
	waste as a byproduct. There is	domain, as envisaged in the rules.
	a need for SOP/guidelines for	(SPCBs/PCCs: inventory of 2018-
	identification of by-products	19 onwards).
	based on the manufacturing	3. SPCBs/PCCs need to take steps
	process as well as intended	to ensure closing of the manifests
	use.	received and reconcile the HW
	b. Applicability of various	handling data. This work is
A	clauses of the HW Rules to	humungous and need support in
	the 'other waste' also needs to	terms of software and online
	be defined clearly in the Rules	submissions.
	itself.	(SPCBs/PCCs).
	c. Presently, there is hardly	4. Pan India IT based solution is
7	any scientific examination or	suggested for tracking HW. Such
- //	scrutiny for identification and quantification of HW prior to	integrated data handling and management solution is under
	grant of authorisation.	management solution is under implementation by CPCB which the
	d. The HW Rules basically	committee would like to review in
. 6	focuses on a close loop	next phase.
P	approach for the HW	5. The pre-processing and
	Management which is	recycling/utilisation facilities need
- 6	reflected in the adoption of	
	manifest system in order to	environmental infrastructure
1.71	ensure that the HW	facilities for sound environmental
	movement is continuously	management of hazardous waste so
100	tracked till its final disposal	as to ensure enhanced level and
	(Cradle to Grave approach).	frequency of enforcement and
	e. However, in case of spent	
-7	solvent sent for solvent recovery, such manifest	Elaborate protocols are needed to be developed.
4	system seems to be ending at	(SPCBs/PCCs: continuous activity).
	the door step of the spent	6. According to Rules, the
	solvent recycler. It would be	identification and quantification of
	advisable to continue this	the hazardous waste generation is
	manifest system right upto	to be done at the authorisation
	the actual user of such	stage itself and therefore, it is
	recovered solvent from solvent	necessary that SPCBs shall adopt
	recovery plant to ensure	the scientific principles as
	appropriate regulation of	enumerated for such identification
	spent solvent plant	and quantification of HW.
	performance and appropriate	(SPCB/PCCs: Immediate)
	accounting and use of	
	recovered solvent. The similar approach is also	
	required to be adopted in all	
	cases of recycling/recovery/	
	utilisation such as used oil,	
	waste oil, lead scrap, spent	
	acid, spent catalyst, etc.	
	, <u>1</u> , , , , , , , , , , , , , , , , , , ,	

- 2. Grant of Authorisation by SPCBs/PCCs (Details in Chapter 4 Section 4.1.2)
 - a. The Rules stipulates requirement of enclosing field inspection report while granting authorisation
 - b. The committee observed that only in few cases the SPCBs are enclosing the said field inspection report alongwith authorisation granted.
 - c. Further, such filed inspection report lacks details w.r.t to adequacy of the facilities on storage, transportation, treatment, recycling/utilisation, disposal, etc.
- 1. Uniform format for visits and HW inspections of handling facilities is necessary to ensure comprehensive inspections as per the provisions of the Rules. A format is proposed by the Committee which is given at Annexure XVI.
- 2. The authorisation document should clearly stipulate respective mode of management (such as common or captive incineration/secured landfilling or pre-processing or recycling or utilization or export or captive storage, as applicable) for each category of HW being generated.

(SPCB/PCCs: immediate)

3. Inventory (Details in Chapter 4 – Section 4.2)

- a. Inventories are based on reporting by the generators/occupiers through annual report as well as authorisation.
- b. The inventory data do not cover all the industries who have been granted authorisation. It also does not cover the hazardous waste from domestic sources, interstate movement, import/export of hazardous waste, and other waste.
- c. The inventories are not verified and validated based on the scientific principles by the State Pollution Control Boards/Pollution Control Committees (SPCBs/PCCs).
- d. There is a substantial variation in the quantity declared in the authorisation and actual quantity of hazardous waste generation declared in the annual report.
- e. Quantities reported in the captive utilisation of hazardous waste appear to be on higher side and are not verified.
- There are no standard protocol/guidelines preparation of HW inventory based on sound scientific principles and approach which is a basic necessity to uniform and consistent preparation of HW by different inventory

1. Standard guidelines and protocol based on scientific fundamentals for preparation of inventory should be prepared by CPCB and strictly followed by the SPCBs/PCCs to ensure reliable and credible inventory.

(SPCBs/PCCs and CPCB/: inventory of 2018-19 onwards)

2. SPCBs/PCCs shall verify and scientifically validate the HW data and facilities before grant or renewal of authorisation.

(SPCBs/PCCs: inventory of 2018-19 onwards)

- 3. There is an emergent need to develop sectoral process based reasonable HW generation range to have uniformity in assessing the HW generation from industries and benchmarking the same with its peers, rather than solely depending on industry data. (SPCBs/PCCs: continuous activity)
- 4. All occupiers who have authorisations shall submit the Annual report and in case of noncompliance, action needs to be taken by SPCB/PCC.

(SPCBs/PCCs: inventory of 2018-19 onwards)

5. The timelines for inventory preparation as envisaged in Rules complied strictly with SPCBs/PCCs. Preparation of country's inventory by CPCB is dependent on such timely submission by SPCBs/PCCS.

(SPCBs/PCCs and CPCB)

	SPCBs/PCCs.	
4.	Enforcement actions. (Details in Chapter 5)	1. SPCBs/PCCs shall invoke the powers conferred under clause 23
	a. Though there have been	(1) and (2) of the Rules, related to
	several incidents on record of	all damages caused to the
	noncompliance of HW	environment or third party due to
	Regulations resulting in	improper handling and
	discharge of HW in	management of the hazardous and
	environment, the powers	other wastes, and non-compliance
	vested with the	respectively. CPCB has already
	CPCB/SPCBs/PCCs for	issued guidelines for Liability
	recovering environmental	assessment, for invoking clause
	damages under Rules 23(1)	23(1) and (2) of HW Rules. CPCB
	has not been invoked.	shall also take consequential
	b. Only three States namely	actions under clause 23 (1) as per
	Maharashtra, Telangana and	the said guidelines wherever
	Madhya Pradesh have	directions under section 5 of the
	reported prosecution actions	E(P) Act have been issued by CPCB,
	under Section 15 of EP Act,	noticing environmental damages.
	1986.	(SPCBs/PCCs and CPCB:
	c. There are hardly few cases	Immediate).
A	where the SPCBs/PCCs have	2. The habitual and serious
	invoked provisions related to	defaulters shall be prosecuted
The same of	revocation and/or refusal of	under provisions of the
	authorisation in view of the	Environment (Protection) Act, 1986.
	observed noncompliances.	Other alternative regulatory actions
	d. Inspe <mark>ction report, mostly is</mark>	including refusal and revocation of
477	not attached along with the	Authorisation can also be explored
	autho <mark>risation</mark> granted.	following the due process.
	Wherever inspection reports	(SPCBs/PCCs: Immediate)
_ 2	hav <mark>e be</mark> en attached su <mark>ch</mark>	3. Non-compliance to be
D	reports lack in required	documented while processing
1	information for appraisal.	authorisation for renewal or
7		inspections in order to invoke
\ \ \		powers of refusal or revocation of
		Authorisation as per Rules. (SPCBs/PCCs: Immediate)
	Y	4. Urgent updation of concerned
1		websites of SPCBs/PCCs/CPCB
A	00	with respect to all enforcement
	EEL IN	actions along with details of
	W TRIBUT	industries and action taken.
-3		(SPCBs/PCCs/ CPCB: Immediate)
		5. There is need to have an
		enforcement framework for effective
		enforcement of Rules based on
		principle of proportionality and
		also, precautionary principle. Such
		framework will remove ambiguity in
		regulatory actions and bring
		transparency, predictability and consistency in enforcement for
		actions.
		(SPCBs/PCCs/CPCB: within 06
		months)
5.	Hazardous waste utilisation	1. The inventory data needs to be
	and recycle. Issues and need	verified and validated before
	of improvements (Details in	accepting the same. The states
	Chapter 4 – Section 4.3)	shall adopt the proposed guidelines
	a. The inventory data shows	immediately while preparation of
	skewed variation in utilisation	HW inventory.
	of HW pattern among different	(SPCBs/PCCs: Immediate)

States. For example in Gujarat about 36 % of the HW generated is either recycled or utilised, whereas in Maharashtra 0.98 % HW generated is recycled and utilised.

- b. Maharashtra is not authorising and promoting the co-processing which is one of the major option of utilisation of HW, although HWthe Rules provided hierarchy waste promoting management recycle and utilisation of the HW. There is a need to have a and consistent scientific approach to promote the HW recycle and reuse consonance of the objective of the HW Rules expressed in of hierarchy, throughout the country.
- c. There are certain environmental risks associated with the recycle and utilisation of the HW in case of non-compliance. It is therefore necessary that such recycle and utilisation of HW is strictly regulated in terms of the performance of such recycle and utilisation.
- d. There is need to immediately prepare guidelines for high volume low impact waste like slags from pyrometallurgical operations, fly ash, red mud, Jarosite, mine tailings and ore beneficiation rejects.
- e. More clarity is required on the application of Rule 9 particularly in case of captive utilisation. Presently, it is very difficult for SPCB/PCC field staff to investigate and analyse such claims of industry. Therefore, presently, the data given by industry is relied upon in totality.
- f. The pre-processing facilities collect the HW from different industries and carry out the homogenization/blending activities to achieve the required calorific value and other desired specification for co-processing. As this industry sector indulge in handling the wide range of

There is emergent need of consistent approach in recycle and utilisation of HW in terms waste management hierarchy mandated in the rules across all the States in order to ensure the level playing field for the industry. This can be achieved by advocacy programme such as concept of waste exchange banks, know vour circular programme, economy, documentation of the success along with stories regulatory interventions wherever required.

(SPCBs/PCCs)

3. It is also necessary to develop certain benchmarks/guidelines for of HW the possibilities recycle/utilization on case to case basis. For example, for coprocessing at Cement plants the Thermal Substitution Ratio (TSR) can be an objective criterion to decide the potential to use HW for utilisation purpose. The range of TSR at different cement plants can be collated to develop a database for sound coprocessing practices.

(SPCBs/PCCs)

4. The concept of environmental benchmarking among the similar industries generating HW can be useful to ensure consistency and uniformity. The emerging trend of circular economy would be a key intervention for rationalising the HW generation and reuse/utilisation

(SPCBs/PCCs: continuous activity)

wastes from different industries, it would prudent to have improved enforcement regime in terms of number of inspections, inspection, detailing of environmental monitoring and reporting of waste receive/disposed etc. on the lines of common facilities. 6. Common Treatment, 1. The practice of returning the HW Storage and Disposal consignment needs to be facilities: reporting. (Details immediately stopped and the in Chapter 4 - Section 4.5) consignment needs to be stored within the TSDF with information The Committee has observed that in some cases to the waste generator and also the concerned SPCB. The TSDF shall **TSDF** rejects the consignment received from take appropriate measures dispose this waste at the risk and the waste generator for noncost of the waste generator under compliance of acceptance criteria. This consignment is due information to the SPCB immediately on priority. Though the returned back to the waste generator. present guidelines prescribed that b. The site selection criteria, the waste shall be sent back to the design and layout are the waste generators, this practice parameters critical needs immediately to be in establishment of the TSDF. In discontinued view of nonaddition, waste storage, accounting of the waste once it is stabilization, landfilling, out of manifest protocol and the incineration leachate associated environmental and (SPCBs/PCCs/TSDFs: immediate) management are critical SPCBs/PCCs The committee shall conduct operations. has observed non-compliance environmental audit including the guidelines these site selection criteria, design and of TSDF at Balotra, layout for the TSDFs in next one example Roorkee, Kanpur, etc. They can engage expert c. Of 18 SPCBs/PCCs having institutes for the purpose and seek CPCB's technical advice on the ToR common secured landfills, 06 SPCBs have still not opened the study, if of required. Escrow Account provision for (SPCBs/PCCs: 01 year) 3. All the Common SLF shall disclose the mandatory amount deposited in Escrow Account postclosure monitoring common SLF. d. Compliance of the Hon'ble annually to SPCB/PCC, CPCB and orders dated 30/07/2018 with regard to display on their website. SPCB/PCC to take action in case of setting of TSDFs and taking imitating actions against non-compliance. (SPCBs/PCCs: erring units- Only Goa and immediate) 4. It is necessary that the Hon'ble Odisha have submitted action plan with timeframe NGT orders dated 30/07/2018 with setting of Common SLF + regard to setting up of TSDF and Common Incinerator and taking imitate actions against Incinerator respectively. Only erring units be strictly complied with by the concerned State/UT Odisha has taken action against erring units Government and SPCBs/PCCs. (State/UT Governments and SPCBs/PCCs: immediate) 7. Contaminated sites: Status, necessary that such It. is identification, need contaminated site database urgent action, investment, developed after due verification by building, SPCBs/PCCs and validation by capacity

guidelines. (Details in Chapter 4 – Section 4.7)

The Committee has initiated work on monitoring direction of the Hon'ble Supreme Court with regard to contaminated site 657/1995 and has discussed matter SPCBs/PCCs/CPCB and the petitioner Shri Sanjay Parikh, Adv. The Committee recognised the monitoring of this aspect has a large scope and the committee intends to focus on this specific issue in coming days. In the meantime committee has made following preliminary observations and record the need of immediate interventions.

- MoEF&CC/CPCB have identified total 329 potentially hazardous waste contaminated sites and subjected them for screening based on verification by the SPCBs. After the verification by SPCBs, the total 144 sites have been identified as contaminated sites and 57 still sites are under evaluation. The Committee is opinion that the of the of identification sites is contaminated elaborate process involving objective criteria and standard protocols. It is expected that SPCBs and CPCB shall follow such objective criteria and standard protocol to identify the contaminated sites and also to assess their scope and extent of contamination.
- 144 identified Out of contaminated sites, CPCB has prioritised 8 sites for which DPR for assessment and remediation has been prepared. However, there is an urgent need to execute this remediation plan on priority. The Committee has been informed that the required financial resources for such remediation have not been mobilised so far.
- c. There is a change in number of such identified sites over the period which

CPCB or some expert third party, so as to ensure the reliability of such data base. The entire process of screening, verification and validation needs to be as per standard protocol and the data needs to be owned by both SPCB/PCC and CPCB, not leaving the things at state level alone. (SPCBs/PCCs/CPCB: continuous activity)

- 2. CPCB should update national priority list of such confirmed contaminated sites. (CPCB: continuous activity)
- 3. Concerned SPCBs/PCCs shall identify the responsible person/industry, for each of these contaminated sites for suitable application for polluter pays principle for the remediation programme in line with the CPCB guidelines 'Implementing Liabilities Environmental Damages & Disposal of Hazardous Waste and Penalty'. (SPCBs/PCCs: Immediate and continuous activity)
- 4. Both SPCBs and CPCB shall continue the process of identification of probable contaminated sites and subject them to identification criteria and decide their status as well as scope and extent of such contamination. This process is a dynamic and need to be a regular feature of enforcement. (SPCBs/PCCs and CPCB: continuous activity)
- 5. In case of the contaminated sites where the polluter is not identified, the State/UT Government would be required to finance remediation of such sites to safeguard the people living in contaminated areas from adverse health effects, in terms of their constitutional responsibility to protect and improve the environment.
- (States/UTs Government and SPCBs/PCCs) 6. SPCBs/PCCs need to initiate immediate intervention measures for containing immediate threats from existing contaminated sites (in both active and inactive sites) and also further ingress of HW. (SPCBs/PCCs: immediate)

could be due to listing/ probable delisting of contaminated sites as a result of increased enforcement and monitoring activities, variations in criteria. 8. Impact of other regulations SPCBs/PCCs and CPCB need to (Details in Chapter 4 take cognizance of these aspects Section 4.2) while enforcing the relevant rules The committee notes that HW also, preparation of HW resulting from enforcement of inventory and other interventions. other regulations like E-waste, (SPCBs/PCCs and CPCB) SW rules etc are presently not accounted in the management plans under HW rules. Committee finds a need to consider impact of other regulations while planning HW management including preparation of inventory and assessing the impacts. a. As per E-waste regulation, in case of fluorescent and other mercury containing lamp where recyclers are not such waste available, channelized to common TSDF for disposal after pretreatment/immobilization mercury. Such waste should also be accounted into HW inventorisation. b. In case of solid waste rules, there is a separate category of HW which domestic is expected to be disposed in the Common Hazardous facility, however, there is no data or information available on the quantity and quality of such domestic HW available so far. Import and export. (Details Committee would deliberate on this in Chapter 4 - Section 4.6) issue further for making detailed a. Harmonization of Basel recommendations. Still however, codes with ITC (HS codes): following recommendations on co-The Ministry (MOEF) provides ordination and data management permission on the basis of are made; Basel codes while DGFT uses 1. There is need to synchronise HS codes. There is a need to Basel code and HS codes to cover synchronize the two codes to all scheduled items as per HW rules avoid confusion. in customs verification and control (MoEF&CC, h. Risk management more effectively. The Custom and Port Authorities) assessment: customs authorities use the 2. CAG has come out with details of risk management system (RMS) to illegal HW import and its storage in ports and ICDs. This needs to be enable low risk consignments to be cleared based on the verified on priority and action be acceptance of the importer's taken for disposal of the same in terms of earlier orders of Hon'ble self-assessment and without examination. Roughly Supreme Court. (Custom and Port percent of containers covered Authorities) under risk management out of 3. Improve traceability of importers:

10	which 10 percent are physically verified. There are different types of waste streams which have not been integrated in the RMS. There is a need to review the import/export data of various waste streams and include them in RMS. Further, waste streams in Schedule III – Parts A, B and D and Schedule VI that are often mis-declared by importers need to be identified and added to the RMS. c. Collaboration between regulating authorities: Regular interaction between the Ministry of Environment, Forest and Climate Change, CPCB, SPCBs/PCCs, customs and ports authorities should take place with frequent consultative meetings and trainings in order to avoid working in silos. Capacity building in CPCB and SPCBs/PCCs and other agencies (trained adequate manpower, laboratory, budget) (Details in Chapter 4 – Section 4.7 and 4.8)	The Customs authorities could make the registration process of importers more stringent as there have been cases where importers have never been able to be traced when their illegal imports were intercepted (MoEF&CC, DGFT, Custom and Port authorities) 1. Each of the SPCBs/PCCs/Custom/TSDF, as listed in report, need to have at least one laboratory where all HW parameters as required under the Rules can be analysed. (SPCBs/PCCs/Custom/TSDF: 06 months) 2. Capacity building in SPCBs/PCCs for rapid preliminary assessment of contaminated sites, which may include practical training on use of tools for soil and groundwater screening such as hand-held XRF instruments, Colorimeter, PID for VOCs/ SVOCs, hand operated augers, groundwater pumps, level meters, etc. (CPCB: 06 months) 3.SPCBs/PCCs and CPCB needs capacity building in terms of qualified and experienced manpower and also, tools and techniques for effective governance. Committee is informed about steps being taken by SPCBs and would review the same in detail. (MoEF&CC, State/UT Government, CPCB and SPCBs / PCCs: Immediate)
11.	Duties performed by State/UT Govt. as stipulated under the HOWM Rules,	1. There is need to sensitize "State/UT Govts. about duties required to be performed by the
	2016 (Details in Chapter 5) The State Govts. have been	concerned department/agency as stipulated under Rule 5(1), 5(2),

entrusted with duties of authorising Dept. of Industry/other Govt. agency and Dept. of Labour/other Govt. agency with regard to allocation/earmarking industrial space, recognition/ registration/ health safety/etc. of workers involved in recycling/ preprocessing/ other utilization activities of HWand submission integrated plan under Rule 5(1), (2) and (3) respectively: The State Govt. has also been entrusted with duties identification and notification of sites for common TSDF and publishing periodically inventory of disposal sites as stipulated under Schedule VII of the HOWM Rules, 2016. It has been observed that actions have not been taken the above on (except identification and notification for common TSDFs in few States) by the State/UT Govt. and there is lack of awareness among them in this regard.

5(3) and Schedule VII of the HOWM Rules, 2016.
Hon'ble NGT may issue appropriate directions in this regard.
(All State/UT Govts.: Immediate)

- 5. Having regard to the sensitiveness of the issue and impact of non-compliance on environment and public health, the above recommendations need to be fully implemented and monitored by the Chief Secretaries at State Level and by the MoEF&CC and CPCB at national level.
- 6. The affidavit of CPCB further states that the Committee has not covered all the aspects and certain other aspects which remain to be considered include contaminated site, capacity building of regulators, issues related to import and export of hazardous waste etc. for which further time of six months is required.
- 7. We are of the view that the Committee must complete its task expeditiously within three months from today. In view of the fact that

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two months have already gone by after the affidavit was filed, its final

report may now be submitted on or before 31.07.019.

8. It is made clear that if the progress in implementation of the Rules is

not found to be adequate, the States may be required to furnish

performance guarantees to comply with the Rules in a time bound

manner.

9. CPCB may determine the scale of compensation to be recovered for

violation of the Rules within one month from today and furnish a

report to this Tribunal by-email at ngt.filing@gmail.com. CPCB may

furnish final action taken report in the matter on or before 15.08.019

by e-mail at ngt.filing@gmail.com.

10. The Chief Secretaries may look into the issue of capacity building of

the SPCBs/PCCs to deal with the issue of compliance of the Rules.

List for further consideration on 26.08.2019.

Adarsh Kumar Goel, CP

Dr. Nagin Nanda, EM

April 12, 2019

Original Application No. 804/2017

(Earlier O.A. No. 36/2012)

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Item No. 01 Court No. 1

BEFORE THE NATIONAL GREEN TRIBUNAL PRINCIPAL BENCH, NEW DELHI

Original Application No. 804/2017

Rajiv Narayan & Anr. Applicant(s)

Versus

Union of India & Ors. Respondent(s)

Date of hearing: 26.08.2019

CORAM: HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON

HON'BLE MR. JUSTICE S.P. WANGDI, JUDICIAL MEMBER

HON'BLE MR. JUSTICE K. RAMAKRISHNAN, JUDICIAL MEMBER

HON'BLE DR. NAGIN NANDA, EXPERT MEMBER

For Applicant(s): Mr. Raj Panjwani, Sr. Advocate and Mr. Rahul

Choudhary, Advocate

For Respondent (s): Mr. Raj Kumar, Advocate for CPCB

Mr. Manish Kumar, Advocate for State of HP Mr. Anuj Chaturvedi, Advocate for DSIIDC Ms. K. Enatoli Sema, Advocate for State of

Nagaland

Mr. Rahul Verma, AAG for State of Uttarakhand

Mr. Amit Tiwari, Advocate for State of UP Mr. Pradeep Misra and Mr. Daleep Dhyani,

Advocates for UPPCB

Mr. Mukesh Verma, Advocate for UEPPCB &

MPCB

Mr. Rahul Khurana, Advocate for State of

Haryana and HSPCB

ORDER

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I. Preface

- 1. The matter has been taken up in continuation of order dated 12.04.2019 on the subject of review of compliance of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (HOWM Rules).
 - Due to alarming situation created by generation and unscientific dumping of hazardous waste resulting in serious and irreversible damage to the environment and public health, the issue was considered by the Hon'ble Supreme Court inter alia in Writ Petition No. 657/1995, The Research Foundation for Science, Technology and Natural Resource Policy Vs. Union of India & Ors., (2005) 10 SCC 510. Directions were issued for preparation of a comprehensive report on illegal hazardous waste dump sites, inventory of generation of such waste, National Inventory for Rehabilitation of Hazardous Waste Dump Sites and Regulation of Import etc. The Hon'ble Supreme Court referred to Basel Convention and MARPOL Convention and also considered and accepted the recommendation of the High Powered

Committee on the subject of handling of hazardous waste generated by the ship breaking process and also the waste oil or such other material. MoEF&CC was directed to consider making a provision for bank guarantee by the importers using used oil, furnace oil and zinc waste to regulate illegal transboundary movement of hazardous waste. Directions were also issued for publication of toxic inventory and community participation. Timelines were prescribed for twenty nine specified activities to be undertaken by MoEF&CC, CPCB, SPCBs/PCCs. The matter was disposed of vide judgment dated 06.07.2012 reported in (2012) 7 SCC 769 reiterating continued compliance of earlier directions with further directions for scientific handling of hazardous waste including ship breaking, banning import of hazardous waste and reviewing and revising Hazardous Waste (Management and Handling) Rules, 1989 to cover the aspects not satisfactorily dealt with and also to provide adequate protection to the workers and the public.

II. Proceedings before the Tribunal

3. We may note the background of proceedings of this matter in this Tribunal. The Original Application (O.A No. 36/2012) sought regulation of polluting activities in Ghaziabad in the light of newspaper reports that Ghaziabad was topping the list of polluted areas. The application was disposed of on 13.01.2015 with certain directions. Thereafter while considering various reports on environmental pollution vide order dated 29.08.2017, scope of

proceedings was extended to all the states in the country relating to compliance of HOWM Rules, with following direction:

- 1. "As to what is the total generation of hazardous waste in their respective States.
- 2. Which agencies have been authorized in terms of rules to collect, transport, disposed of and the process of the hazardous wastes.
- 3. What is the capacity of the plants which have been given due authorization for that purpose.
- 4. What happens and how the remnant hazardous waste is being dealt with.
- 5. The members who have been allotted any of the authorized plants and are not sending hazardous waste to those plants. What action the concerned authorities i.e. the State Government and the respective States and State Pollution Control Boards have taken so far, against such members. These details should be filed within one week from today."
- 4. Thereafter vide order dated 25.10.2017 the Tribunal disposed off the application with liberty to file independent application on the subject of HOWM Rules. This led to application being assigned new O.A No. 804/2017.
- In the course of consideration of the said matter on 30.07.2018 the Tribunal noted the status of compliance of the HOWM Rules in various states and directed as follows:
 - "(i) All the States, where the hazardous waste is being generated must set up Treatment, Storage and Disposal Facility (TSDF) facility of adequate capacity at appropriate locations within three months from today and forthwith imitate action against erring units.
 - (ii) Central Government and Central Pollution Control Board must forthwith monitor the compliance of the rules by reviewing the need for action in all the states.
 - (iii) The Central Pollution Control Board may forthwith constitute a monitoring Committee for the purpose it may appoint a Nodal Officer exclusively to oversee the compliance of the rules. The Member Secretary CPCB may act as a Nodal Officer till a substitute is found. The action taken must be placed on the website of the

Central Pollution Control Board within 3 months from today. Compliance report be filed before this Tribunal on or before 30th November, 2018, which will be treated as a separate application."

- 6. On 18.07.2018, the Hon'ble Supreme Court considered the prayer to deal with the issues which according to the applicant had not been earlier covered. The said issues were transferred to this Tribunal. The application mentioned the said issues to be as follows:
 - "A. Preparation of a National Inventory of Hazardous wastes;
 - B. Complete identification and registration of Hazardous wastes generating units in the country;
 - C. Construction of TSDF/Land fills;
 - D. Hazardous Waste Dump Sites;
 - E. Waste <mark>oil/used oil read wi</mark>th the order dated 23.10.2<mark>007</mark>;
 - *F.* Setting up of laboratories at the dock/ports;
 - G. Institutional Reforms in MoEF, CPCB, SPCB, PCC;
 - H. Natio<mark>nal poli</mark>cy documents on Hazardous Wastes as well as cleaner technology;
 - I. Regarding workers handling hazardous wastes."
- 7. In pursuance of the above M.A No. 1302/2018 was filed before this Tribunal. Vide order dated 05.12.2018, this Tribunal directed that the issues being connected to the implementation of judgment dated 06.07.2012 of the Hon'ble Supreme Court may be considered by the Committee constituted by the CPCB in pursuance of order of this Tribunal dated 30.07.2018 on 09.08.2018.
 - III.Constitution of Committee by CPCB and Direction to SPCBs/PCCs

- 8. We may note that the CPCB in compliance of the order of this Tribunal constituted a Monitoring Committee on 09.08.2018 and issued directions on 30.01.2019 to all the SPCBs/PCCs as follows:
 - "a) Ensure that all the solvent recovery industries in the state have mandatory Authorisation for the same in compliance with the SOP and Checklist issued by CPCB for solvent recovery units, within one month. The said SOP and checklist have been circulated to all SPCBs/PCCs vide letter no. B29016/(SC)/1(55-IV)/17-18/WMII/18152-86 dated 08/3/2018 and is also available at CPCB website http://cpcb.nic.in/uploads/hwmd/utilizaionspent solvent.pdf.
 - b) Ensure that these solvent recovery industries shall immediately follow the SOP, for safe and scientific spent solvent handling, processing and storage.
 - c) Ensure that such solvent recovery units shall comply with the provisions of HOWM Rules, 2016, in terms of interstate transport of Hazardous waste and manifest document prescribed under Rule 18 and 19 of the HOWM Rules, 2016, with immediate effect. Stringent action be taken against the erring industries who are giving the spent solvent to such recycling industries without following the manifest systems.
 - d) Conduct industry interaction programs within a month to create awareness and sensitization on HOWM Rules, 2016 with all the stakeholder industries of Spent Solvent generation/utilization.
 - e) Prepare an inventory of such solvent recovery units and publish the same on their website for information of all, stakeholders within one month with copy to CPCB within one month."

IV.Reports of the Committee, Action by the SPCBs/PCCs Further Reports of the CPCB and consideration by this Tribunal

9. Interim Report dated 29.01.2019 by the Monitoring Committee -

The Monitoring Committee gave its interim report dated 29.01.2019 under the following headings:

- 1. Hazardous waste identification: Uniformity in assessment, Byproducts and solvents (Details in Chapter 4 Section 4.1.1)
- 2. Grant of Authorisation by SPCBs/PCCs (Details in Chapter 4 Section 4.1.2)
- 3. Inventory (Details in Chapter 4 Section 4.2)
- 4. Enforcement actions. (Details in Chapter 5)
- 5. Haza<mark>rdous waste utilisation a</mark>nd recycle. Issues and need of improvements (Details in Chapter 4 Section 4.3)
- Common Treatment, Storage and Disposal facilities: reporting. (Details in Chapter 4 – Section 4.5)
- 7. Contaminated sites: Status, identification, need of urgent action, investment, capacity building, guidelines. (Details in Chapter 4 Section 4.7)
- 8. Impact of other regulations (Details in Chapter 4 Section 4.2)
- 9. Import and export. (Details in Chapter 4 Section 4.6)
- 10. Capacity building in CPCB and SPCBs/PCCs and other agencies (trained adequate manpower, laboratory, budget) (Details in Chapter 4 Section 4.7 and 4.8)
- 11. Duties performed by State/UT Govt. as stipulated under the HOWM Rules, 2016 (Details in Chapter 5)

On each of the above subjects, the Committee made recommendations for time bound action.

- 10. Order of the Tribunal dated 12.04.2019- The report was considered by the Tribunal on 12.04.2019. The Tribunal accepted the recommendations and directed the Chief Secretaries of the States at the State level and Ministry of Environment, Forest and Climate Change (MoEF&CC) and CPCB at the national level to monitor the compliance of the recommendations. The Committee was directed to complete its remaining task within three months. The CPCB was to complete its report on the regime of compensation for violation of the HOWM Rules.
- 11. Report of CPCB on Compensation regime Learned Counsel for the CPCB states that as per order of this Tribunal dated 12.04.2019, report dated 10.05.2019 has been prepared on the subject of compensation regime and will be filed, if the same has not been earlier filed.
- 12. **Final Report of the Committee dated 23.07.2019-** The CPCB has also filed "Final Report of Monitoring Committee on Management of Hazardous Waste" on 23.07.2019. The issues dealt with in the report are:
 - I. Contaminated Sites and Related Issues
 - II. Import and Export of Hazardous Wastes and Issues
 - III. Waste Reception Facilities for wastes generated from ships and issues
 - IV. Impact of HW on Workers' Health
 - V. Status of compliance of issues with regard to orders of Hon'ble Supreme Court dated 14.10.2003

The committee has suggested disposal of accumulated waste through Treatment, Storage and Disposal Facilities (TSDFs) or onsite secured landfilling (SLF), preparation of guidelines for identification and assessment of contaminated sites, capacity building programme for officials of SPCBs/PCCs to deal with the subject, assessment of 195 sites for probable contamination, resolution of issues relating to financial arrangement between Central-State Government for remediation of contaminated sites, revising policy framework, speedy disposal of confiscated consignments imported illegally, upgrading the laboratories, finalizing procedure for taking bank guarantee from importers to safeguard against illegal import of hazardous waste, strengthening risk management systems while verifying documents for import of waste, laying down requirement of reception facilities at each cargo loading and unloading port, terminal and ship repair ports providing safeguards for the workers handling the waste, institutional reforms and finalizing a national policy for effective enforcement of the HOWM Rules. Summary of observations and recommendations of the Committee are as follows:

66	S1. No.	Observations	Proposed Actions (Responsible Agency and timeline of action)
		I. CONTAMINATED SITES	AND RELATED ISSUES
	1	Disposal of hazardous wastes accumulated at identified sites: (i) The Committee has observed that there are several contaminated dumpsites in various parts of country where hazardous and other wastes were	(i) CPCB/SPCBs/PCCs to ensure that the hazardous waste accumulated at all such identified sites shall be disposed of either through Treatment, Storage and Disposal Facilities (TSDFs) or on- site secured landfilling (SLF) on

dumped historically, which resulted in contamination of soil, groundwater and surface water thereby posing health and environmental risks.

priority to stop further contamination

(CPCB/ SPCBs/PCCs: 06 months)

2 Guidelines for Identification and Assessment of Contaminated Sites:

(i) The Committee notes that CPCB is working on standard uniform identification and assessment guidelines for the probable contaminated sites and any new additional sites, such guidelines will bring a consistency and uniformity in dealing with the contaminated sites issues.

(i) For a consistent and uniform application and approach across the country, guidelines for identification and assessment of contaminated sites shall be published.

(CPCB: 03 months)

Assessment and remediation of Contaminated sites:

(i) The Committee has observed that there is a need of awareness and capacity building in SPCBs/PCCs on the entire remediation process including identification, detailed assessment, DPR preparation and execution of remediation.

(ii) Further, the committee notes with regret that even today there probable about 195 contaminated sites (329-134) which needs а thorough assessment for its confirmation as contaminated site or otherwise. Though the DPRs of 17 sites out of 21 are prepared under NCEF Project and the same have been forwarded to respective Governments and State Boards. However, no remediation efforts have been initiated at such sites.

(i) Capacity building program for officials of SPCBs/PCCs on the entire process of remediation, which may include practical training on use of tools for soil groundwater screening such as hand-held XRF instruments, Colorimeter, PID for VOCs/ SVOCs, hand operated augers, groundwater pumps, level meters, etc. shall be organized by CPCB.

(CPCB: 06 months)

(ii) Assessment of about 195 probable contaminated sites and any new additional sites recommended by CPCB/SPCBs/PCCs shall be completed within period of 1 year after publication of such guidance document by CPCB.

(CPCB/SPCBs/PCCs: 1 year)

(III) For effective implementation of the remediation plan at State level, Empowered Monitoring Committee chaired by Principal Secretary, Department of Environment having

representatives from department of Industries, SPCB/PCC, Ground water development agency, etc. shall be constituted.

(State Govt: 04 months)

4 Financial Arrangements for remediation of contaminated sites:

(i) The Committee while taking note of public trust doctrine read with provisions of section 9 of E (P) Act, it is the duty of the Govt. both Central and State to protect environment by taking remedial measures irrespective of the financial arrangements which seems to be a matter of ongoing deliberations.

- (i) Financial arrangements between Central-State Governments for the proposed remediation projects shall be resolved immediately so that the remediation works as proposed in DPRs can be undertaken on priority. These DPRs (2017-18 and 2018-19) may need to be revisited if no action is taken in a reasonable time for execution of remediation works.
- (ii) Govt. should take up on priority not only remediation projects at the sites where DPRs have been prepared but also the assessment of about 195 sites, besides any new addition of potentially contaminated site, if any. (MoEF&CC/State Govt.: 06 months)

Networking of Academic and Research Institutes:

Execution of remediation program would require necessary interdisciplinary expertise at the SPCBs/PCCs. CPCB/SPCBs/PCCs may find it difficult to work on these aspects unilaterally and therefore there to be coordination and information sharing among these agencies beside developing network of academic and research institutes which can help in creating an "Expertise Pool". (ii) The committee also notes that a part of such capacity building efforts specific action research programs can be initiated by these agencies and more particularly

(i) MoEF&CC/CPCB/SPCBs/PCCs shall undertake action research and also promote academic courses on this subject in association with academic and research institutions.

(MoEF&CC/CPCB/ SPCBs/PCCs: 06 months)

professional courses on remediation and restoration can be sponsored at academic/research institution which will help to create a critical mass of expertise in this subject.

II. IMPORT AND EXPORT OF HAZARDOUS WASTES AND ISSUES

5 Disposal of illegally imported consignments:

(i) In case of confiscated items, responsibility to dispose lies with Customs. CBIC vide Circular No.31/2004- Cus, dated 26-4-2004 has referred to the orders of the Hon'ble Supreme Court in the matter of WP(C) 657/1995 for disposal of hazardous waste. The committee observed that the above circular needs to be amended for hazardous disposal of including allocation of fund by the concerned agency for bearing the cost of disposal.

(ii) The committee observed that in case of unclaimed/uncleared consignments (where the claimants of the goods/wastes are nontraceable), disposal is to be carried out by port authorities/ **ICDs** (custodian ofthe unclaimed/uncleared consultation consignments) in with customs and considerable clearing those consignments lying in ICDs/CFSs is a major concern as also referred in the CAG Report.

(i) The customs circular dated 26-4-2004 requires amendment Central Board of Indirect Taxes and Customs (CBIC) and it recommended that CBIC to also devise policy framework for speedy disposal and bearing the cost of confiscated disposal of consignments (illegal / banned and non-conformity to the specifications of the products as applicable / as per Schedule V of HOWM Rules, 2016).

(CBIC: 03 months)

(ii) Port authorities/ICDs may also devise a policy, if necessary, in consultation with customs, to ensure HW disposal and its cost so as to expedite the disposal all the unclaimed cargo lying at various ports (and CFSs)/ICDs in a time bound manner.

(Port Authorities: 03 months)

6 Laboratory Upgradation in Ports/Docks:

(i) For upgradation and setting up of laboratories at various docks/ports to prevent entry of hazardous waste, Customs have informed that the revenue (i) The committee is of the opinion that list of equipments as provided by CBIC for upgradation shall also be provided at major ports, with import and export facilities by CBIC. However, at other ports, arrangements for analysis of

laboratories at 05 zones (Chennai, Kolkata Delhi, Kandla, and Mumbai) identified were for upgradation for testing of Hazardous waste as per the directions of the Hon'ble Supreme Court on 11.06.2004. Process of replacing nonfunctional equipments required for testing of Hazardous Waste is being further undertaken with the latest configuration/specificati on and technology. Further details of the laboratory facilities available in customs for analysis of hazardous materials in those five locations were also provided by <mark>custo</mark>ms.

relevant parameters with EPA/NABL accredited laboratories having minimum requisite laboratory infrastructure/equipment can be put in place in advance by CBIC.

(CBIC: 03 months)

7 Bank Guarantee procedure:

(i) Para 2.35 of Foreign Trade Policy 2015-20 stipulates that wherever any duty free import is allowed or where otherwise specifically stated, importer shall execute, Legal undertaking (LUT) / Bank Guarantee (BG) / Bond with the customs authority, prescribed, before clearance of goods. However, execution of the same has not been clarified by DGFT and Customs.

(i) Applicability of bank guarantee for the list or category of items and procedure of executing BG by importer/PSIAs, as applicable, need to be specified by DGFT.

(DGFT: 03 months)

(ii) Procedure of executing bank guarantee by PSIAs and importer in case of import of restricted items (including hazardous wastes specified under Schedule III and VIII) and other items respectively, be devised and mandated by DGFT.

(DGFT: 03 months)

8 Verification of documents for HW in Part D:

(i) Schedule VIII of HOWM Rules, 2016 lays down list of documents for verification by customs for import of other wastes (specified in Part D of Schedule III of the said Rules). For instance, in the CAG report, it has been reported that 49 consignments of restricted goods viz., steel sheets, steel melting scrap etc. were cleared by four Customs in **ICDs** (viz.,

(i) CBIC shall strengthen their Risk Management System (RMS) for improved vigilance while verifying documents for import of other wastes (Part D of Schedule III of HOWM Rules, 2016) especially those goods/wastes that are similar to hazardous wastes (regulated or banned/prohibited for import), as there is a possibility that prohibited wastes are imported under the other wastes category.

Chennai, Marmagoa, Ahmedabad and Shillong) for importation without proper documents such as clearance from MoEF, conditions as specified in Schedule 1 and 2 of ITC(HS) policy etc.

(CBIC: immediate)

9 RMS system:

(i) The customs authorities use the risk management system (RMS) to enable low risk consignments to cleared based on the acceptance of the importer's selfassessment and without examination. Roughly 30 percent of containers covered under risk management out of which 10 percent are physically verified. There are different types of waste streams which have not been integrated in the RMS. There is a need to review the import/export data of various waste streams and include th<mark>em in R</mark>MS. Further, waste streams in Schedule III – Parts A, B and D and Schedule VI that are often mis-declared by importers need to be identified and added to the RMS.

(ii) RMS has to be made robust so as to cover all the hazardous goods or consignments listed with HS code classification in accordance with ITC (HS) policy, 2017 for complete verification and testing of the consignments.

(i) There is need to synchronize Basel code and HS codes to cover all scheduled items as per HW rules in customs verification and control more effectively.

(MoEF&CC, Custom and Port Authorities: 06 months)

(ii) In order to tackle illegal import HW \ 📕 consignments (misdeclaration) and those similar to unrestricted items without HS code, such items need to be identified and classified with HS code and brought under the ambit of RMS for stringent verification and testing procedure (for example 'other' waste oil, 'other' oils, furnace oil, Rubber/Tyre oil, Lead / Zinc etc. scrap with hazardous characteristics beyond the limits specified in the HOWM Rules, 2016 be classified with HS Code).

(CBIC and DGFT: 06 months)

(iii)This process is a continuous process and the monitoring committee recommends that this compliance be reviewed jointly by MoEF&CC and Customs in their coordination meetings.

(MoEF&CC, Custom authority: on a regular basis)

10 **DGFT** license in public domain:

(i) Details of licenses issued to import restricted items not placed on DGFT website, which may require to be communicated to the (i) Details of licenses issued to import restricted items be placed on DGFT website so as to keep the concerned agencies such as Customs and MoEF&CC informed.

concerned such (DGFT: 03 months) agencies as Customs and MoEF&CC. Harmonization 11 of 'other' (i) Items that require to be provided category in line with HWM with HS code under Rules, 2016: classification of oils be specified categorically under the 'other' class (i) Harmonization of Basel codes in consultation with MoEF&CC. with ITC (HS codes): The Ministry (MOEF) provides permission on (DGFT: 06 months) the basis of Basel codes while (ii) HS code for all the hazardous DGFT uses HS codes. There is a and other wastes listed in Part A, need to synchronize the two codes Part B and Part D of Schedule III of to avoid confusion. the Rules be specified by DGFT and (ii) Import of items under 'other' Customs. The Committee recognizes that notifying HS code is an waste oil (ITC code: 2710 99 00) are restricted, however these items elaborate and time consuming are not clearly specified. As the procedure which requires item 'other' (ITC code: 2710 19 90) international deliberations along with certain list of oils are confirmation and therefore the allowed freely, so there is a committee recommends to possibility of import of used/waste streghthen the RMS which can oil under the garb of oil under the provide an expeditious alternative safeguard mechanism. 'other' category. (iii)No HS code has been specified (DGFT and Customs: 03 months) categorically for any of the hazardous and other wastes except for metal scrap and waste 12 **Pre-Shipment Inspection Agency** (i) Initiatives similar to that of metallic scrap wastes be taken by (PSIAs) for certain category of oils as per Annexure 13 of the DGFT for notifying PSIAs for certain **ASG Report:** category of oils suggested for preshipment inspections certificate for Pre-shipment Inspection imports in the Recommendations of Agencies (PSIA) notified by DGFT the former ASG, Sh Gopal are available for metal scrap Subramaniam. wastes only and there is a need for pre-shipment inspection (ii) Once the PSIAS procedure are certain category of oils (i.e. list of specified, the same must be shared MoEF&CC, oils suggested for pre-shipment with inspections certificate for imports CPCB/SPCBs/PCCs and other in the Recommendations of the regulatory authorities. former ASG, Sh Gopal (DGFT: 06 months) Subramaniam.

Penal Action against the defaulters in case illegal import:

(i) Section 135 of Customs Act lays down provisions for prosecution of importer for the offences such as mis-declaration of value fraudulent evasion or attempt at evasion of any duty or any prohibition, where the person is liable to be punished with imprisonment for a term exceeding up to seven years and with fine. Violations with regard prohibited goods, namely, hazardous and other wastes are not categorically notified under section 135.

As means to improve traceability of the importers, Customs authorities could make the registration process of importers more stringent as there have been cases where importers have never been able to be traced when their illegal imports were intercepted. All incidences of illegal import of HW shall be immediately reported to MoEF & CC as per provisions of the Rules.

(MoEF&CC, DGFT, Custom and Port authorities: 03 months)

(ii) In case of illegal import of hazardous wastes, MoEF&CC may consider delegation of power vested under section 19 of the Environment (Protection) Act, 1986 to CBIC, to enable them to take credible action against such violators under the E(P) Act, 1986.

(MoEF&CC: 06 months)

Re-export of illegal consignments after confiscation:

(i) With regard to re-export of illegally imported items DGFT has referred to a recent order of Hon'ble High Court of Kerala, where in the case pertaining to import of Multifunctional Devices (MFDs) without permission/license from DGFT, the Hon'ble High Court had directed that the powers to direct importers to re-export lies with the DGFT under FT (D&R) Act, 1992 and not with the customs authorities.

(i) As of now, DGFT can take action against the erring importers as per the provisions of Foreign Trade (Development & Regulation) Act, 1992, since the feasibility delegating such powers the Customs Authorities is being examined in DGFT. The committee recommends to expedite the process in a time bound manner (preferably within 3 months) so as to ensure speedy disposal of consignments lying in ICDs/CFSs.

(DGFT: within 03 months)

Clearance of Waste Oil/Sludge from Ships:

(i) Used/ Waste Oil generated from

(i) Used/ Waste Oil generated from ships collected by the reception facilities of various ports shall be covered under Authorisation by ships are collected by the reception facilities of various ports without authorization by concerned SPCBs/PCCs.

(ii) Therefore, Waste oils may get disposed illegally in the garb of waste oil from ships under the obligation of MARPOL. SPCBs/PCCs for its designated disposal and facilitate tracking of waste under HOWM Rules, 2016. (Port Authorities/ SPCBs/PCCs: Immediate)

16 Findings of CAG Report:

(i) Findings and recommendations of Report No. 16 of 2018 of the Comptroller and Auditor General of India on 'Performance Audit of Inland Container Depots (ICDs) and Container Freight Stations (CFSs)' needs to addressed by concerned agencies such as port authorities and customs.

- (i) CBIC shall prepare annual inventory of the illegally imported consignments stored in Ports/ICDs/CFSs and submit the same to CPCB and MoEF&CC by 30th September of every year and publish on its website.
- (ii) Wherever importer of illegally imported consignments is traceable, importer shall not be allowed to import/export, directly or indirectly any material until illegally imported consignments is safely disposed off scientifically as per HOWM Rules, 2016.

(Customs, Port Authorities and DGFT: 03 months)

Authorization under HWM Rules, 2016 from concerned SPCB/PCC:

(i) Custom and Port authorities have not obtained requisite authorization for handling, storage, transportation, recycling, utilization, offering for sale, transfer or disposal, as the case may be, from the State Pollution Control Board.

(i) Necessary authorization for handling, storage, transportation, recycling, utilization, offering for sale, transfer or disposal, as the case may be obtained by Customs and Port authorities to deal with the hazardous wastes that are confiscated and waste from ships respectively.

(Port authorities and Customs: Immediate)

Collaboration between regulating authorities:

(i) The committee observed that regulatory agencies such as Ministry of Environment, Forest and Climate Change, CPCB, (i) Regular interaction between the Ministry of Environment, Forest and Climate Change, CPCB, SPCBs/PCCs, customs and ports authorities should take place with frequent consultative meetings and trainings in order to avoid working

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SPCBs/PCCs, customs and ports in silos. authorities do not interact on a regular basis. Availability of Waste Reception Facilities at ports: (i) In accordance with the orders of loading and the Hon'ble SC, the Ministry of terminal and Shipping has to notify availability of reception facilities as per MARPOL Convention. No clear information could be received from DG(shipping) who represented year Ministry of Shipping in the interactions with the committee. (ii) According to notification dated

(MoEF&CC, CPCB, SPCBs/PCCs, customs and ports authorities: On a regular basis)

III. WASTE RECEPTION FACILITIES IN PORTS TO DEAL WITH WASTES GENERATED FROM SHIPS (MARPOL)

- - 07th Jan 2010 of Department of Shipping the Central Government is required to determine the types of facilities required for purpose of provision of reception facilities at each cargo loading and unloading port, terminal and ship repair port and notify the organization thereof.
- (i) Ministry of Shipping needs to urgently prescribe requirement of reception facilities at each cargo unloading ship repair ports preferably within 06 months, if not done earlier, and such reception facilities shall be provided by such authorities within a period of one thereafter. (Ministry Shipping: 06 months and 01 year)

- Authorization 20 the waste reception facilities and ports:
 - (i) The committee observed that Port authorities have not obtained authorization under HW rules for waste reception facilities in ports to deal with wastes generated from ships. The annual report of wastes generated and disposed are not reported to concerned SPCBs/PCCs. Concerned SPCBs/PCCs need to enforce provisions of HOWM Rules, 2016.
- (i) State Pollution Control Boards shall enforce provisions of HW Rules, 2016 for grant ofauthorisation and manifest submissions such waste at reception facilities as well as port operations. SPCBs shall ensure that the HW handled at such facilities and ports should be covered in the Annual report to be prepared as per HOWM Rules, 2016.

(SPCBs/PCCs and Port Authority: with immediate effect)

- 21 Swachh sagar portal:
 - DG(S)developed has
- The committee recommends Ministry of Shipping to ensure that

Centralized port reception facility portal: Swachh sagar which is an online system to facilitate early information sharing of waste category and quantity by ships to the port authorities. The committee was informed that this online information management system is not widely and regularly used at several ports.

all the major and nonmajor ports utilize the Swachh sagar online portal immediately which will ensure better HW management. The MoEF&CC/CPCB/SPCBs should also have an access to this portal for enforcement purpose.

(Ministry of Shipping: 03 months)

IV. IMPACT OF HW ON WORKERS' HEALTH

Coverage of all workers under ESI act, 1948:

The Special Committee constituted by Apex Court has recommended all workers (covered under ESI Act, 1948 and not covered under ESI Act, 1948) to benefits medical get and compensation under ESI Act. 1948. However, recommendations of the Report of the Special Committee, May 2004 has not been implemented.

(i) The committee recommends that all the workers engaged in HW handling, storage, transport, preprocessing, utilisation and disposal (covered under ESI Act, 1948 and not covered under ESI Act, 1948) need to get medical benefits and compensation under Act, 1948 as per recommendations of the Report of the Special Committee, May 2004 and the same be implemented on priority.

(Ministry of Labour & Employment: 03 months

23 Implementation of Rule 5(2) of HOWM Rules, 2016:

(i) The committee regrets to note that most of the State Labour Departments are not fully aware of the responsibility cast upon them under Rule 5(2) of HW Rules, 2016 and have not complied with.

(i) The committee recommends Hon'ble Tribunal to direct Chief Secretaries of States to ensure effective and urgent implementation of the provisions of the rules as stipulated under Rule 5(2) of HOWM Rules, 2016 by Department of Labour. (Department of Labour, Respective State/UT Government: Immediate)

Unauthorized industries be brought under the ambit of ESI Act, 1948:

(i) It is a known fact that there are several unauthorized industries involved in hazardous waste handling like EWaste processing, battery recycling, solvent reuse (i) Ministry of Labour need to devise a scheme similar to the provisions of ESI Act, 1948 to cover the workers employed in unorganized sector. (Ministry of Labour & Employment: 06 months) 25

etc., which employ significant number of workers. It is necessary that all such industries need to be regulated bv concerned SPCB/State labour department so that the workers employed therein are brought under the ambit of health and other social support scheme similar to the provisions of ESI Act, 1948. Implementation of provisions of statute for safety and health of all workers handling HW: (i) The scope of Rule 5(2) of Hazardous Waste (Management in-plant and Transboundary Movement) Rules, 2016 is restricted to only workers involved in Recycling, Therefore. Preprocessing and other utilization

(i) The Monitoring committee is of the view that even at HW generating industry/activity, the involved in HW handling including storage and transportation and also reuse/ recycle/ reutilization will also be exposed to similar environmental health risks. committee the recommends that MoEF&CC may same and examine the mav consider amendment of the ambit of Rule 5(2) of HOWM Rules, 2016.

(MoEF&CC: 06 months)

26 DISPLAY OF INFORMATION OUTSIDE THE FACTORY GATE:

hazardous waste.

(i) The committee notes with regret that many of the SPCBs/PCCs have not responded to the correspondence of CPCB in this regard.

activities. As per recommendations

of Expert Committee constituted

by Apex court, the scope of such

health rela<mark>ted consid</mark>erations need

to be for all persons handling

- (ii) The committee has also observed non-compliances with regard to display of information outside the factory gate in most of the States/UTs inspected by CPCB.
- (i) Considering the orders of the Hon'ble Apex court and also the need of information sharing with the local community the committee recommends that the SPCBs need to ensure the compliance of the directions of the Hon'ble Apex court on regular basis rather than a onetime compliance.
- (ii) The verification of the updation of display board should be an integral part of any inspection carried out by CPCB/SPCBs/PCCs without exception. In case of noncompliance the concerned officer should be subjected to departmental actions.

27 INSTITUTIONAL REFORMS:

(i) Capacity building in CPCB and

(CPCB/SPCBs/PCCs: Immediate)

(i) The committee is of the opinion that there is an urgent need to develop an appropriate and sound institutional framework at SPCBs consisting sound policies, trained and experienced manpower, necessary infrastructure including the laboratories besides having proper enforcement protocol at the State and Central Board level for the effective enforcement of the HW rules.

(ii) The committee is of the opinion that there is a need of impetus for action research specifically in the areas of green chemistry, cleaner technology, waste minimization, circular economy and LCA by SPCB/CPCB. It is also necessary that findings of such research shall be shared among all the stakeholders so that there can be environmental benchmarking of the relevant processes across the country.

SPCBs/PCCs and other agencies (viz., trained adequate manpower, laboratory, budget etc.) shall be expedited as recommended in the orders of Hon'ble NGT dated 12.04.2019.

(CPCB, SPCBs/PCCs, MoEF&CC and State/UT Government: Immediate)

(ii) The committee recommends that CPCB/SPCBs/PCCs shall take efforts similar to that of the State of Gujarat where a separate institution named Gujarat Cleaner Production Centre (GCPC) which conducts such action research supported by adequate information dissemination program and advocacy programs for promoting the cleaner technology.

(iii)CPCB/SPCBs/PCCs shall proactively engage in research and development activities by supporting research in clean technology and cleaner production and also, awareness program for the purpose.

(CPCB and SPCBs/PCCs: Immediate)

28 NATIONAL POLICY:

(i) HW management is a complex technical and scientific subject which require a multidisciplinary approach for the effective management and enforcement of HOWM Rules, 2016. There is a continuously improving understanding knowledge and about the impacts of Hazardous material at the national international level. India is also an important stakeholder in many international treaties and the ofconventions field in Hazardous chemicals and wastes

(i) MoEF&CC can examine the need of having specialized HW policy which can be appropriately aligned with the National Environment Policy (NEP), 2006 which will promote use of Clean Technology and also ensure sufficient financial allocations for technology research and information sharing resulting into improved HW management.

(MOEF&CC: 06 months)

besides other environmental issues. There is a need of further documentation as well as policy framework for promotion of Clean Technology, financial incentives and research.

13. Report dated 14.08.2019 by the CPCB with reference to compliance by the SPCBs/PCCs- An action taken report on implementation of recommendation of the Monitoring Committee of Management of Hazardous Waste has also been filed by the CPCB in terms of order dated 12.04.2019 on 14.08.2019 on the subject of compliance of the directions with regard to solvent recovery units. The recommendations of the CPCB are as follows:

"Recommendations:

- 1. It is recommended that SPCBs/PCCs (namely Assam, Bihar, Delhi, Haryana, Jammu & Kashmir, Lakshadweep, Manipur, Tripura, Uttar Pradesh, Uttarakhand and DDD&NH) may be directed to submit the compliance status on the directions issued by CPCB as the same has not received from these SPCBs/PCCs
- 2. SPCBs/PCCs of Goa, Karnataka, Maharashtra and Odisha, to ensure that that all the authorized solvent recovery units in States are verified for compliance to CPCB's SOP.
- 3. It is recommended that SPCBs of Andhra Pradesh, Goa, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Telangana and West Bengal to ensure enforcement of manifest system as per the provisions of HOWM Rules, 2016 and initiate action against the erring units.
- 4. SPCBs of Himachal Pradesh, Madhya Pradesh and Rajasthan to immediately prepare inventory of Spent Solvent Recovery Unit available in their States and publish

- the same on their website. Further, all the SPCBs/PCCs having Spent Solvent recovery units to ensure updation and publishing of the inventory at their website on regular basis.
- 5. It is recommended that SPCBs/PCCs of Rajasthan, Odisha, Goa and Punjab, shall immediately conduct interaction programs to create awareness and sensitization on HOWM Rules, 2016 with stakeholders of Spent Solvent generation/utilisation."
- 14. It may be noted that the directions of the CPCB dated 30.01.2019 on the subject are as follows:
 - "a) Ensure that all the solvent recovery industries in the state have mandatory Authorization for the same in compliance with the SOP and Checklist issued by CPCB for solvent recovery units, within one month. The said SOP and checklist have been circulated to all SPCBs/PCCs vide letter no. B-29016/(SC)/1(55-IV)/17- 18/WM-II/18152-86 dated 08/3/2018 and is also available at CPCB website http://cpcb.nic.in/uploads/hwmd/utilizaion_spent_solvent.pdf.
 - b) Ensure that these solvent recovery industries shall immediately follow the SOP, for safe and scientific spent solvent handling, processing and storage.
 - c) Ensure that such solvent recovery units shall comply with the provisions of HOWM Rules, 2016, in terms of interstate transport of Hazardous waste and manifest document prescribed under Rule 18 and 19 of the HOWM Rules, 2016, with immediate effect. Stringent action be taken against the erring industries who are giving the spent solvent to such recycling industries without following the manifest systems.
 - d) Conduct industry interaction programs within a month to create awareness and sensitization on HOWM Rules, 2016 with all the stakeholder industries of Spent Solvent generation/utilization.
 - e) Prepare an inventory of such solvent recovery units and publish the same on their website for information of all

stakeholders within one month with copy to CPCB within one month."

15. The report finds following deficiencies in compliance of recommendations of the Committee and orders of this Tribunal by the States, the CPCB and the SPCBs/PCCs:

"4.1. BY STATE/UT DEPARTMENTS

- I. Recommendation No. 6.4: It is necessary that the Hon'ble NGT orders dated 30/07/2018 with regard to setting up of TSDF and taking imitate actions against erring units be strictly complied with by the concerned State/UT Government and SPCBs/PCCs. (State/UT Governments and SPCBs/PCCs: immediate).
- II. Recommendation No. 7.5: In case of the contaminated sites where the polluter is not identified, the State/UT Government would be required to finance remediation of such sites to safeguard the people living in contaminated areas from adverse health effects, in terms of their constitutional responsibility to protect and improve the environment. (States/UTs Government and SPCBs/PCCs)
- III. Recommendation no. 10.3: SPCBs/PCCs and CPCB needs capacity building in terms of qualified and experienced manpower and also, tools and techniques for effective governance. Committee is informed about steps being taken by SPCBs and would review the same in detail. (MoEF&CC, State/UT Government, CPCB and SPCBs / PCCs: Immediate)
- IV. Recommendation no. 11.1: There is need to sensitize State/UT Govts. about duties required to be performed by the concerned department/agency as stipulated under Rule 5(1), 5(2), 5(3) and Schedule VII of the HOWM Rules, 2016. Hon'ble NGT may issue appropriate directions in this regard. (All State/UT Govts.: Immediate)

4.2. BY CENTRAL POLLUTION CONTROL BOARD (CPCB)

I. Recommendation no. 1.1: There is a need to urgently prepare a guidelines or protocol on how to decide the by-

- product on specific criteria. This can be done based on chemical process involved in order to bring consistency in approach. (MoEF&CC and CPCB: 06 months)
- II. Recommendation no. 1.4: Pan India IT based solution is suggested for tracking HW. Such integrated data handling and management solution is under implementation by CPCB which the committee would like to review in next phase.
- III. Recommendation no. 3.1: Standard guidelines and protocol based on scientific fundamentals for preparation of inventory should be prepared by CPCB and strictly followed by the SPCBs/PCCs to ensure reliable and credible inventory. (SPCBs/PCCs and CPCB/inventory of 2018-19 onwards).
- IV. Recommendation no. 3.5: The timelines for inventory preparation as envisaged in Rules be strictly complied with by SPCBs/PCCs. Preparation of country's inventory by CPCB is dependent on such timely submission by SPCBs/PCCS. (SPCBs/PCCs and CPCB).
- Recommendation no. 4.1: SPCBs/PCCs shall invoke the powers conferred under clause 23(1) and (2) of the Rules, related to all damages caused to the environment or third party due to improper handling and management of the hazardous and <mark>other</mark> wastes, and non-compliance respectively. CPCB has already issued guidelines for Liability assessment, for invoking clause 23(1) and (2) of HW Rules. CPCB shall also take consequential actions under clause 23 (1) as per the said guidelines noticing environmental damages. (SPCBs/PCCs and CPCB: Immediate).
- VI. Recommendation no. 4.4: Urgent updation of concerned websites of SPCBs/PCCs/CPCB with respect to all enforcement actions along with details of industries and action taken. (SPCBs/PCCs/CPCB: Immediate).
- VII. Recommendation no. 4.5: There is need to have an enforcement framework for effective enforcement of Rules based on principle of proportionality and also, precautionary principle. Such framework will remove ambiguity in

- regulatory actions and bring transparency, predictability and consistency in enforcement for actions. (SPCBs/PCCs/CPCB: within 06 months).
- VIII. Recommendation no. 8: SPCBs/PCCs and CPCB need to take cognizance of these aspects (i.e. HW resulting from enforcement of other regulations) while enforcing the relevant rules and also, preparation of HW inventory and other interventions. (SPCBs/PCCs and CPCB).
- IX. Recommendation no. 10.3: SPCBs/PCCs and CPCB needs capacity building in terms of qualified and experienced manpower and also, tools and techniques for effective governance. Committee is informed about steps being taken by SPCBs and would review the same in detail. (MoEF&CC, State/UT Government, CPCB and SPCBs / PCCs: Immediate)
 - 1.3. BY STATE POLLUTION CONTROL BOARDS/ POLLUTION CONTROL COMMITTEES (SPCBS/PCCS)
- I. Recommendation No. 1.2: Other waste is presently missing from all the regulatory actions, including inventory. It is necessary to bring such waste in regulatory domain, as envisaged in the rules (SPCBs/PCCs: inventory of 2018-19 onwards)
- II. Recommendation No. 1.3: SPCBs/PCCs need to take steps to ensure closing of the manifests received and reconcile the HW handling data. This work is humangous and need support in terms of software and online submissions. (SPCBs/PCCs)
- III. Recommendation No. 1.5: The pre-processing and recycling/utilisation facilities need to be treated as critical environmental infrastructure facilities for sound environmental management of hazardous waste so as to ensure enhanced level and frequency of enforcement and environmental monitoring. Elaborate protocols are needed to be developed. (SPCBs/PCCs: continuous activity)
- IV. Recommendation No. 1.6: According to Rules, the identification and quantification of the hazardous waste generation is to be done at the authorization stage itself and

- therefore, it is necessary that SPCBs shall adopt the scientific principles as enumerated for such identification and quantification of HW. (SPCB/PCCs: Immediate)
- V. Recommendation No. 2.1: Uniform format for visits and inspections of HW handling facilities is necessary to ensure comprehensive inspections as per the provisions of the Rules. A format is proposed by the Committee.
- VI. Recommendation No. 2.2: The authorization document should clearly stipulate respective mode of management (such as common or captive incineration/secured landfilling or pre-processing or recycling or utilization or export or captive storage, as applicable) for each category of HW being generated. (SPCBs/PCCs: immediate)
- VII. Recommendation No. 3.2: SPCBs/PCCs shall verify and scientifically validate the HW data and facilities before grant or renewal of authorization. (SPCBs/PCCs: inventory of 2018-19 onwards)
- VIII. Recommendation No.3.3: There is an emergent need to develop sectoral process based reasonable HW generation range to have uniformity in assessing the HW generation from industries and benchmarking the same with its peers, rather than solely depending on industry data. (SPCBs/PCCs: continuous activity)
- IX. Recommendation No. 3.4: All occupiers who have authorizations shall submit the Annual report and in case of non-compliance, action needs to be taken by SPCB/PCC. (SPCBs/PCCs: inventory of 2018-19 onwards)
- Recommendation No. 4.1: SPCBs/PCCs shall invoke the Χ. powers conferred under clause 23 (1) and (2) of the Rules, related to all damages caused to the environment or third party due to improper handling and management of the and other wastes, and non-compliance hazardous respectively. CPCB has already issued guidelines for Liability assessment, for invoking clause 23(1) and (2) of HW Rules. CPCB shall also take consequential actions under clause 23 (1) as per the said guidelines wherever directions under section 5 of the E(P) Act have been issued

- by CPCB, noticing environmental damages. (SPCBs/PCCs and CPCB: Immediate)
- XI. Recommendation No. 4.2: The habitual and serious defaulters shall be prosecuted under provisions of the Environment (Protection) Act, 1986. Other alternative regulatory actions including refusal and revocation of Authorization can also be explored following the due process. (SPCBs/PCCs: Immediate)
- XII. Recommendation No. 4.3: Non-compliance to be documented while processing authorization for renewal or inspections in order to invoke powers of refusal or revocation of Authorization as per Rules. (SPCBs/PCCs: Immediate)
- XIII. Recommendation No. 4.4: Urgent updation of concerned websites of SPCBs/PCCs/CPCB with respect to all enforcement actions along with details of industries and action taken. (SPCBs/PCCs/CPCB: Immediate)
- XIV. Recommendation No. 4.5: There is need to have an enforcement framework for effective enforcement of Rules based on principle of proportionality and also, precautionary principle. Such framework will remove ambiguity in regulatory actions and bring transparency, predictability and consistency in enforcement for actions. (SPCBs/PCCs/CPCB: within 06 months)
- XV. Recommendation No. 5.1: The inventory data needs to be verified and validated before accepting the same. The states shall adopt the proposed guidelines immediately while preparation of HW inventory. (SPCBs/PCCs: Immediate)
- XVI. Recommendation No. 5.2: There is emergent need of consistent approach in recycle and utilisation of HW in terms waste management hierarchy mandated in the rules across all the States in order to ensure the level playing field for the industry. This can be achieved by advocacy programme such as concept of waste exchange banks, know your waste programme, circular economy, documentation of the success stories along with regulatory interventions wherever required. (SPCBs/PCCs)

- XVII. Recommendation No. 5.3: It is also necessary to develop certain benchmarks/guidelines for the possibilities of HW recycle/utilisation on case to case basis. For example, for co-processing at Cement plants the Thermal Substitution Ratio (TSR) can be an objective criterion to decide the potential to use HW for utilization purpose. The range of TSR at different cement plants can be collated to develop a database for sound co-processing practices. (SPCBs/PCCs)
- XVIII. Recommendation No. 5.4: The concept of environmental benchmarking among the similar industries generating HW can be useful to ensure consistency and uniformity. The emerging trend of circular economy would be a key intervention for rationalizing the HW generation and reuse/utilization. (SPCBs/PCCs: continuous activity)
- Recommendation No. 6.1: The practice of returning the HW consignment needs to be immediately stopped and the consignment needs to be stored within the TSDF with information to the waste generator and also the concerned SPCB. The TSDF shall take appropriate measures to dispose this waste at the risk and cost of the waste generator under due information to the SPCB immediately on priority. Though the present guidelines prescribed that the waste shall be sent back to the waste generators, this practice needs to be immediately discontinued in view of nonaccounting of the waste once it is out of manifest protocol and the associated *environmental* risks. (SPCBs/PCCs/TSDFs: immediate)
- XX. Recommendation No. 6.2: SPCBs/PCCs shall conduct environmental audit including the site selection criteria, design and layout for the TSDFs in next one year. They can engage expert institutes for the purpose and seek CPCB's technical advice on the ToR of the study, if required. (SPCBs/PCCs: 01 year)
- XXI. Recommendation No. 6.3: All the Common SLF shall disclose the mandatory amount deposited in Escrow Account annually to SPCB/PCC, CPCB and display on their website. SPCB/PCC to take action in case of non-compliance (SPCBs/PCCs: immediate)

- XXII. Recommendation No. 6.4: It is necessary that the Hon'ble NGT orders dated 30/07/2018 with regard to setting up of TSDF and taking imitate actions against erring units be strictly complied with by the concerned State/UT Government and SPCBs/PCCs. (State/UT Governments and SPCBs/PCCs: immediate)
- XXIII. Recommendation No. 8.0: SPCBs/PCCs and CPCB need to take cognizance of these aspects while enforcing the relevant rules and also, preparation of HW inventory and other interventions. (SPCBs/PCCs and CPCB)
- XXIV. Recommendation No. 10.1: Each of the SPCBs/PCCs/Custom/TSDF, as listed in report, need to have at least one laboratory where all HW parameters as required under the Rules can be analysed. (SPCBs/PCCs/Custom/TSDF: 06 months)
- XXV. Recommendation No. 10.3: SPCBs/PCCs and CPCB needs capacity building in terms of qualified and experienced manpower and also, tools and techniques for effective governance. Committee is informed about steps being taken by SPCBs and would review the same in detail (MoEF&CC, State/UT Govt, CPCB and SPCBs/PCCs: Immediate)"
- 16. Recommendations of the CPCB to rectify above deficiencies are:

"6.1. RECOMMENDATIONS:

- 1. It is recommended that 05 SPCBs/PCCs (namely Dadar Nagar Haveli& Daman & Diu; Haryana; Lakshadweep; Manipur and Nagaland) directed to submit the status on implementation of recommendations made by the Monitoring Committee in its interim report, as CPCB has not received any information from these SPCBs/PCCs.
- 2. SPCBs/PCCs need to implement 25 action points, out of which 11 action points needs to be implemented immediately and other 14 in regular and nonimmediate manner. It is recommended that SPCBs/PCCs which are not complying with the recommendations made by Monitoring Committee should submit the status report to CPCB immediately.
- 3. It is recommended that till National Hazardous Waste Tracking System (NHWTS) which is being developed by

- CPCB is made functional, SPCBs/PCCs may be directed to ensure and verify reconciliation of manifest.
- 6. SPCBs/PCCs shall strictly follow the guidelines for inventorization of hazardous and other waste issued by CPCB and ensure verification and validation of the annual returns submitted by the occupiers/recycler/preprocessor/utilizer/coprocessor operator of disposal facilities including submission of the annual inventory to CPCB within the stipulated time period.
- 5. It is recommended that SPCBs/PCCs (namely Himachal Pradesh, Sikkim, Punjab, Kerala and Jharkhand) which have reported non-compliance but not taken any action shall be directed to take action against such violators as per provisions of HOWM Rules, 2016.

 Further, it is also recommended that SPCBs/PCCs may be directed to initiate actions against all such units which are violating one or other provisions of HOWM Rule, 2016 including non-compliance to the documenting submission such annual returns, manifest document, etc.
- 6. It is recommended that the timeline provided by the SPCBSs/PCCs with regard to adopting waste management hierarchy (as stipulated in the HOWM Rules) to ensure the level playing for the industries shall be strictly adhere to. Further, SPCBs/PCCs shall also initiate development of certain benchmarks/guidelines for the possibility of hazardous waste recycling/ utilization on case to case to basis as most of the SPCBs/PCCs have not taken any initiative on the same.
- 7. It is recommended that SPCBs/PCC may be directed to initiate development of sectoral process based HW generation range to have uniformity in assessing the HW generation from industries and benchmarking the same.
- 8. It is recommended that SPCBs/PCCs of (Karnataka, Maharashtra, Rajasthan, Kerala and Uttarakhand) having Common TSDF to immediately open the Escrow Account as per O.M of MoEF&CC including deposition of mandatory amount.
 - Further, SPCBs/PCCs of Gujarat, Jharkhand, Karnataka, Odisha, Rajasthan, Tamil Nadu and West Bengal shall

- take action against the Common TSDF(s) for not displaying the details of mandatory amount deposited in the Escrow Account on their website.
- 9. SPCBs/PCCs may be directed to expedite conducting of environment audit of the Common/Captive SLFs in the time bound manner as specified in the Interim Report of the Monitoring Committee Report.
- 10. SPCBs/PCCs have reported that out of 30 SPCBs/PCCs only 19 are having laboratory facilities for analysis of all hazardous waste parameters as required under HOWM Rules, 2016. Therefore, it is recommended that all the remaining 11 SPCBs/PCCs (Andaman and Nicobar Islands, Arunachal Pradesh, Delhi, Goa, Jammu & Kashmir, Jharkhand, Meghalaya, Odisha, Puducherry, Sikkim and Uttarakhand) should be equipped with all the facilities for analysis of all hazardous waste parameters as required under HOWM Rules, 2016.
- 11. It is recommended to direct States/UTs (namely Andaman and Nicobar Islands, Assam, Arunachal Pradesh, Bihar, Chhattisgarh, Chandigarh, Delhi, Goa, Jammu & Kashmir, Lakshadweep, Manipur, Meghalaya, Mizoram, Nagaland, Puducherry, Tripura and Sikkim) where common TSDF is not available to immediately set up adequate number/capacity of Common TSDFs in such States/UT.
- 12. All the Chief Secretaries of the States/UTs may be directed to submit biannually compliance report to CPCB by collecting information from the State Government/ Departments like Labour/ Industries/ Environment and SPCBs/PCCs."

V. Consideration by this Tribunal and Directions

17. We have given due consideration to the report of the Committee as well as the report of the CPCB on the follow up action. We do not see any objection to the recommendations being accepted. No objection has been raised by any of the parties. Accordingly, the recommendations are accepted..

- 18. The States/UTs, CPCB/SPCBs/PCCs, Central Board of Indirect Taxes and Customs (CBIC), the Port Authorities, the DGFT, the MoEF&CC, the Ministry of Shipping, Ministry of Labour and Employment and the Department of Labour of all the concerned States/UTs may take necessary steps in terms of the recommendations of the Committee within the timelines specified. If there is any default, the Tribunal may consider requiring environmental compensation to be paid by the defaulting parties.
- 19. Hazardous waste being highly toxic in nature, having potential for irreversible damage to the environment and public safety, scientific handling of such waste has to be ensured.

VI. Directions

- 20. In the light of above, the States/UTs, CPCB/SPCBs/PCCs, the Central Board of Indirect Taxes and Customs (CBIC), the Port Authorities, the DGFT, the MoEF&CC, the Ministry of Shipping, Ministry of Labour and Employment and the Department of Labour of all the concerned States/UTs may take necessary steps in terms of the recommendations of the Committee within the timelines specified. If there is any default, the Tribunal may consider requiring environmental compensation to be paid by the defaulting parties. While doing so following specific steps may be ensured:
 - i. Hazardous waste inventory be updated and verified by way of test checks to ensure that the same is credible, reliable and robust in terms of contents and scope, as already recommended in the interim report of the Monitoring

- Committee dated 29.01.2019 which was accepted by the Tribunal on 12.04.2019.
- ii. Since it has been reported that State Boards/PCCs of Dadra & Nagar Haveli, Haryana, Daman & Diu, Manipur, Lakshadweep and Nagaland have not furnished the relevant data, the said States/UTs may furnish the data within one month to the CPCB, failing which they will be liable to pay a sum of Rs, 1 lakh per month with effect from 01.10.2019.
- iii. As already directed, all the States which have not set up TSDF may do so and the States which fail to set up the same up to 31.03.2020, will be liable to pay environmental compensation of Rs. 10 lakh per month. However, with regard to States which may be categorized as small States, having regard to the quantum and nature of generation of hazardous waste, the liability to pay compensation will start from 01.01.2021. The categorization based on threshold limit of generation of hazardous waste be made by the CPCB within one month from today and placed on its website.
- iv. 126 sites which have already been identified as contaminated may be cleared of the hazardous waste within six months so that remediation process may start. The remediation work may start at the 55 sites for which DPRs have been completed within the timelines specified in the DPRs. For the remaining 71 sites, DPRs may be completed expeditiously but not later

than one year and thereafter remediation may be done as per the timelines in the DPRs.

- v. Failure to remove the waste from the 126 identified sites, will result in environmental compensation to be paid at the rate of Rs. 10 lakhs per site from 01.04.2020 by the concerned SPCBs/PCCs to the CPCB. Same rate will apply in respect of such of the 195 sites as are identified as contaminated with effect from 01.01.2021.
- vi. With regard to 195 probable contaminated sites, the assessment may be completed within six months and thereafter the waste may be removed within next six months form sites cleared by the CPCB to be contaminated.
- vii. The clearance of site by way of disposal or transfer should be strictly as per the HOWM Rules, to be monitored by the CPCB. The cost of removal of waste may be first paid out of the environment funds/consent funds available with the State PCBs/PCCs and thereafter recovered from the persons concerned.
- viii. Whenever any difficulty arises, the CPCB may, on being so satisfied, allocate funds from environment funds available with it, which may thereafter be recovered from the concerned defaulters.

- ix. The recommendations of the CPCB with regard to the compensation regime on the subject may be adopted, subject to further consideration of orders.
- x. The CPCB may oversee the compliance of these directions compile data from all quarters and furnish an interim compliance report before 15.04.2020 by email at judicial-ngt@gov.in.

List for further consideration on 28.04.2020

Adarsh Kumar Goel, CP

S.P. Wangdi, JM

K. Ramakrishnan, JM

Dr. Nagin Nanda, EM

August 26, 2019
Original Application No. 804/2017
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