



TAMIL NADU POLLUTION CONTROL BOARD

Circular Memo No. T2/TNPCB/HW-Utilization/CPCB-SOPs/2022 dt: 15.7.2022

Sub: TNPCB – HW Management – Utilisation of hazardous wastes as resource materials as per Rule (9) of HOWM Rules, 2016 – Compliance of Standard Operating Procedures (SOPs)/Guidelines issued by CPCB from time to time for proper HW utilisation - Instructions – Issued -Regarding.

- Ref: 1. CPCB Letter Ref. File No. CP-21/29/2021-WM-II-HO-CPCB-HO/818 dated 29.04.2022. [copy enclosed]
2. Standard Operating Procedures (SOPs) issued by CPCB under Rule (10) of HOWM Rules, 2016 from time to time. (available @ tnpcb.gov.in/sop.php)
3. TNPCB Circular Memo No. T2/TNPCB/HWM/CPCB-SOPs/2021 dated 09.07.2021.
4. Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 as amended. (referred as HOWM Rules, 2016)

The attention of the DEEs & JCEEs is invited to the references cited. As per the provision of Rule-9 of HOWM Rules, 2016, utilization of hazardous waste shall be carried out by any industrial unit/facility only after obtaining authorization from SPCBs/PCCs on the basis of the Standard Operating Procedures (SOPs)/Guidelines issued by CPCB.

CPCB issues Standard Operating Procedures (SOPs) from time to time for the utilization of various hazardous wastes, according to the provision of Rule-10 of HOWM Rules, 2016. As of June, 2022, 80 SOPs have been issued by CPCB and these are available in TNPCB web site - tnpcb.gov.in/sop.php for ready reference.

Instructions have already been issued vide reference (3) cited regarding (i)_close monitoring of compliance of SOPs/Guidelines issued for HW-Utilization, (ii)_proper regulation of utilizable hazardous wastes for which SOPs issued for further beneficial use instead of final disposal and (iii)_permitting the operations of HW-Utilizers with valid "Authorisation + Pass Book" under HOWM Rules, 2016.

Now, CPCB vide reference (1) cited has communicated that several industrial units/facilities across the country have been authorized, even though SOPs/guidelines are not available for specific utilization of hazardous waste and if utilization of hazardous waste is authorized by SPCBs/PCCs without CPCB Guidelines or SOPs, it may cause adverse impacts on human health and environment. Further, it shall be ensured strict compliance to the HOWM Rules,

- 2 -

2016 and to inventorise all such authorizations granted without availability of SOPs to curtail the violations in this regard.

Regarding HW Management, the Hon'ble NGT(PB) in its various orders in OA No 804/2017 have directed to ensure SOPs compliance by HW-Utilizers in view of certain environmental risks associated with the recycling/utilization of hazardous wastes in case of non-compliance.

Hence, following instructions are issued relating to HW utilization & compliance of SOPs issued by CPCB.

1. Industries generating hazardous wastes if utilizable, as per SOPs issued by CPCB from time to time shall be regulated for proper utilization considering potential of resource materials in order to reduce/stop final disposal in the common/captive TSDFs.
2. The management of generation of few HW types (for which SOPs issued) such as (i) Spent ion exchange resin from DM plant, (ii) Spent H₂SO₄ & HCL acid from metal cleaning process, (iii) Spent phosphoric acid, spent sulphuric acid, spent ammonium carbonate from dye & dye intermediates, chemicals manufacturing units, (iv) Spent carbon from urea manufacturing plant, (v) Spent ammonium chloride from pharma units, (vi) Spent alkali bromide and spent acid bromide from pesticides, pharmaceuticals and organic chemicals, (vii) ETP sludge of fertilizer plant & pulp and paper industry, (viii) Flue gas cleaning residues from steel scrap melting units and (ix) Spent catalyst etc.... needs to be checked & regulated as per SOPs issued for proper utilisation.
3. Industries adopting utilisation of hazardous wastes shall strictly follow SOPs issued by CPCB and operate with valid "Authorisation + Pass Book" under HOWM Rules, 2016.
4. DEEs shall inspect industries/facilities of HW -Utilizers and verify SOPs compliance and furnish report to Board Office with observations of non-compliance if any, for enforcement action.
5. DEEs shall inventory all those HW-utilizers in their jurisdiction obtained Authorisation + Pass Book under HOWEM Rules, 2016 for utilisation of those hazardous wastes [specific HWs] without availability of SOPs & report to Board Office within 15 days for necessary action.

The receipt of the circular memo shall be acknowledged.

Encl. as stated

To

All DEEs & JCEEs of TNPCCB

7-veds
18/12/22
for Member Secretary
CM
18/12/22



JCEE IV
EE (A)

केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

Speed Post

10/5/22
818

File No.CP-21/29/2021-WM-II-HO-CPCB-HQ

29/04/2022

To

010931

The Member Secretary
Tamil Nadu Pollution Control Board
76, Mount Salai, Guindy, Chennai – 600 032
Tamilnadu

Sub: Authorization granted by SPCBs/PCCs under Rule-9 of the Hazardous and other Wastes (Management & Transboundary Movement) (HOWM) Rules, 2016.

Sir,

This has reference to the applications received under Rule-9 of HOWM Rules, 2016 accompanied with authorizations granted by SPCBs/PCCs.

As per the provisions of Rule-9 of HOWM Rules, 2016, utilization of hazardous waste shall be carried out by any facility only after obtaining authorization from the SPCB/PCC on the basis of Standard operating Procedures (SoPs) or guidelines issued by the CPCB and where SoPs are not available for specific utilization of hazardous waste, the approval has to be sought from the CPCB which shall be granting approval on the basis of trial runs and thereafter, SoPs shall be prepared by CPCB.

Instances have been brought to the notice of CPCB that several industrial units/facilities across the country have been authorized, even though SoPs/ guidelines are not available for specific utilization of hazardous waste. Such practices defeat the very purpose of Rule-9 of HOWM Rules, 2016 and implies gross violation of Rules. As you are aware, if utilisation of hazardous waste is authorized by SPCB/PCC without CPCB Guidelines or SoP, it may cause adverse impacts on human health and environment.

Therefore, State-level policies/ schemes which violate the Rules in this regard shall immediately be repealed and should ensure strict compliance to the HOWM Rules, 2016. Also kindly inventorise all such authorizations granted without availability of SoPs to curtail the violations in this regard.

Yours faithfully,

(A. Sudhakar)

Division Head

Waste Management- II

‘परिवेश भवन’ पूर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, Delhi-110032

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TAMIL NADU POLLUTION CONTROL BOARD

Circular Memo No.T2/TNPCB/HWM/CPCB-SOPs/2021 dated 09.07.2021

Sub : TNPCB – HW Management - Utilisation of hazardous wastes as resource materials as per Rule (9) of HOWM Rules, 2016 – Implementation of Standard Operating Procedures (SOPs)/Guidelines issued by CPCB from time to time for proper HW utilisation -- Instructions – Issued - Regarding.

- Ref :
- (1) Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (HOWM Rules, 2016)
 - (2) Standard Operating Procedures (SOPs) being issued by CPCB under Rule (10) of HOWM Rules, 2016 from time and time. (available @ tnpcb.gov.in/sop.php)
 - (3) Hon'ble NGT(PB) directions in OA No 804/2017 related to ensure SOP compliance for solvent recovery industries in the state.

The Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 has been implemented with effect from April, 2016 for the safe and environmentally sound management of hazardous and other wastes in the State. The **RULE (9)** of HOWM Rules, 2016 lay down provisions for the utilization of hazardous and other wastes as resource materials direct/after pre-processing for further beneficial use.

According to the provision of RULE (10) of HOWM Rules, 2016, CPCB issues Standard Operating Procedures (SOPs) for the utilization of various hazardous and other wastes for Actual Users from time to time. As of June, 2021, 68 SOPs have been issued by CPCB and these are available in TNPCB web site tnpcb.gov.in/sop.php for ready reference. A consolidated list (ABSTRACT) of 68 SOPs issued for various hazardous wastes is enclosed herewith for easy understanding & effective implementation.

For utilization of hazardous and other wastes in environmentally sound manner, Industries of HW_utilisers shall obtain prior permission (Authorization + Pass Book) under HOWM Rules, 2016 from respective SPCBs/PCCs and shall carryout process/utilize in respect of those hazardous wastes on the basis of Standard Operating Procedures (SOPs) or Guidelines issued by the CPCB.

Even though, SOPs have been issued by CPCB so far for 68 HW types, TNPCB has authorized utilization of three HW types namely (1) spent solvent (SOP No.29), (2) spent dichromate solution (SOP No.31) and (3) de contamination (washing) of drums, containers (SOP No.15). List of such HW_Utilisers are available in TNPCB web site @ tnpcb.gov.in/hwutilisers.php

In the Waste Management Hierarchy, recycling & utilization as resource or energy recovery of hazardous and other wastes are preferential option over their disposal thro" secured land filling or incineration. Hence, the management of generation of few HW types (for which SOPs issued) such as (i) Spent ion exchange resin from DM plant, (ii) Spent H₂SO₄ & HCL from metal surface cleaning process, (iii) Spent phosphoric acid, spent sulphuric acid, spent ammonium carbonate from dye & dye intermediates, chemicals manufacturing units, (iv) Spent carbon from urea manufacturing plant, (v) Spent ammonium chloride from pharma units, (vi) Spent alkali bromide and spent acid bromide from pesticides, pharmaceuticals and organic chemicals and (vii) Spent catalyst etc... need to be checked & regulated for proper utilization considering potential of resource materials as per SOPs issued by CPCB in order to reduce the burden of disposal either through secured landfills or incineration facility of common TSDFs.

Regarding HW Management, the Hon'ble NGT(PB) in its various orders in OA No 804/2017 have directed to ensure SOPs compliance by HW-Utilizers in view of certain environmental risks associated with the recycling/utilization of the HWs in case of non-compliance. Further, CPCB had also issued directions to all SPCBs/PCCs on 30.01.2019 for ensuring SOP compliance by spent solvent recovery units in the State and later, prescribed FORMAT for status updation in this regard so as to submit 'report on compliance' to the Tribunal.

It is brought to the notice that four industries in Tamil Nadu State (list available at tnpcb.gov.in/HWM/HWChromium.pdf) is utilizing spent dichromate solution, procuring from M/s Solara Active Pharma Sciences Limited, Puducheery for re-processing and operating without valid Authorisation + Pass book as mandatory under HOWM Rules, 2016. Further, few utilizable hazardous wastes such as spent ion exchange resins, spent catalyst, spent acids etc... [for which SOPs issued] generated from various industries are sent for disposal in the common TSDFs in Tamil Nadu.

Hence, following instructions are issued for (i) close monitoring of compliance of SOPs/Guidelines issued for HW-Utilization, (ii) proper regulation of utilizable hazardous wastes for which SOPs issued for further beneficial use instead of disposal and (iii) permitting the operations of HW-Utilizers with valid "Authorization + Pass Book" under HOWM Rules, 2016

1. Industries adopting utilisation of hazardous wastes shall strictly follow SOPs issued by CPCB regarding (a) providing minimal requisite facility & (b) adopting operational procedure for proper utilisation etc... and operate with valid Authorisation + Pass Book as mandatory under HOWM Rules, 2016.
2. DEEs shall forward the Standard Operating Procedures (SOPs) developed by CPCB to the respective industries in their jurisdiction for strict compliance.
3. DEEs shall inspect industries of HW-Utilizers (list available at **tnpcb.gov.in/hwutilisers.php**) such as (i) spent solvent recovery units, (ii) units adopting de contamination (washing) of drums/containers and (iii) units utilising spent sodium dichromate etc.... under their jurisdiction periodically and verify for SOPs compliance and furnish report to Board Office. In case of any non-compliance/violations, IR with recommendations shall be furnished for enforcement action.
4. DEEs shall inspect spent solvent recovery units (list available at **tnpcb.gov.in/HWM/SolventRecoveryIndustries.pdf**) operated under their jurisdiction within 15 days and furnish report in the FORMAT prescribed by CPCB (enclosed) within 20 days for status updation to CPCB to comply with the orders of Hon'ble NGT(PB) in OA No 804/2017.
5. HW-Utilizers (Actual Users) shall maintain PASS BOOK for receipt/purchase of hazardous and other wastes from various generators and handing over of such wastes shall be done only after making entry in pass book as per Rule (6.7) & (6.8) provisions. DEEs shall verify the same during inspection and report on any non-compliance to the Board office for enforcement action.
6. Industries generating hazardous waste types covering under SOPs issued by CPCB from time to time shall be regulated for proper utilization considering potential of resource materials in order to reduce the burden on disposal either through secured landfills or incineration facility of common TSDFs in Tamil Nadu. Awareness in this regard shall be created among the Generators.

The receipt of memo shall be acknowledged.


For Member Secretary

Enclosures:-

1. List of 68 SOPs issued by CPCB as of June, 2021 for information.
2. CPCB Format for status up-dation of Spent Solvent Recovery Units.
3. List of industries utilizing spent dichromate solution/chromium waste, procure from Puduchery for enforcement action

To

All JCEE(M)s & DEEs of TNPCB

Copy to

ACEEs/JCEEs/EEs in Corporate office of TNPCB
All TNPCB Engineers through mail
PS_Technical to Chairman
PA to Member Secretary
Computer section

LIST OF 68 STANDARD OPERATING PROCEDURES (SOPs)
ISSUED BY CPCB FOR UTILISATION OF HAZARDOUS WASTES

As of June, 2021

1. SOP for Utilization of **waste salts generated from CETPs/ETPs** of Textile manufacturing/processing industries for recovery of salts for industrial use.
2. SOP for Utilization of **spent hydrochloric acid** (generated during manufacturing of Trichloroethylene/Perchloroethylene (or) Chlorinated Paraffin Wax (CPW) for manufacturing of 7 ADCA.
3. SOP for Utilization of spent hydrochloric acid (generated during manufacturing of Chlorinated Paraffin Wax) for manufacturing of Calcium Chloride.
4. SOP for Utilization of spent sulphuric acid generated during manufacturing of Hydrobromic acid (HBr) as resource material for manufacturing of Bromine (liquid) through bittern route.
5. SOP for utilization of metal and metal bearing wastes for recovery of metal alloys and salts.
6. SOP for utilization of dilute acetic for manufacturing of acetic anhydride.
7. SOP for utilization of **ETP sludge** for manufacturing of red oxide and gypsum.
8. SOP for utilization of brine sludge for manufacturing of bricks.
9. SOP for utilization of magnesium chloride in MAP process in CETP.
10. SOP for utilization of **ETP sludge as fuel** in recovery boiler.
11. SOP for utilization of sludge gen from SANF CETP for manufacturing of bricks.
12. SOP for utilization of **ETP sludge generated from Textile Industries** to use as a supplementary fuel along with coal in Thermic Fluid Heater (TFH)/Boiler.
13. SOP for utilization of Spent Sodium Hypo Chlorite along with fresh/spent caustic solution for manufacturing of Sodium Hypo Chlorite.
14. SOP for utilization of Spent TiO₂-NaCl Cake generated from process residue/waste containing chloride from the catalyst manufacturing industries for recover of Titanium Dioxide.
15. **Revised SOP for utilization of contaminated barrels /containers drums containing hazardous wastes/chemicals/oil and lubricants.**

16. SOP for utilization of Aluminium Dross Residues generated from separation of metal from Aluminium dross or Aluminium dross reprocessing units for manufacturing of Alum.
17. SOP for utilization of **Spent Sulphuric Acid** generated from dyes & dyes intermediate industries in production of another dyes and dye intermediate products.
18. SOP for utilization of Spent Ammonium Carbonate (generated during manufacturing of CPC Blue) for manufacturing of Zinc carbonate, Copper carbonate, Manganese carbonate, Magnesium carbonate and Ferrous carbonate.
19. SOP for utilization of Tarry Residue generated from coal gasifier units (excluding operating in Morbi-Wankaner area in Gujarat) for production of Creosote oils and coal tar pitch.
20. SOP for utilization of residue/rejects generated from processing of Aluminium Dross of Aluminium Smelting process for production of synthetic slag.
21. SOP for utilization of Spent Ammonium Carbonate (generated during manufacturing of Copper Pthalocyanin Blue) in manufacturing of zinc carbonate and copper carbonate.
22. SOP for utilization of **Spent Acid** generated from Dye and Dye Intermediates Industries chemical manufacturing Industries as neutralizing agent in ETP/CETP.
23. SOP for utilization of Spent Aluminium Chloride generated during manufacturing of 4, 4-Diaminobenzenesulfanilide (DABSA) in manufacturing of CPC Green and 2, 4, 6-TrimethylBenzoyl Chloride.
24. SOP for utilization of Spent Sulphuric Acid generated during manufacturing of 4, 4-Diaminobenzenesulfanilide (DABSA) in manufacturing of Para Amino Benzene Sulphonic acid (PABSA).
25. SOP for utilization of Spent liquid Glauber Salt (Generated during para base vinyl sulphone manufacturing process) for Production of Reactive Dye (Reactive Orange 2 R).
26. Revised SOP for utilization of Spent Alkali Bromide and Spent Acidic Bromide generated during manufacturing of various pesticides, pharmaceuticals and organic chemicals for recovery of liquid Bromide.
27. SOP for utilisation of **Spent Ammonium Chloride** generated during production of Hexamethyl Di Silazane for manufacturing of Ammonium chloride.
28. SOP for utilisation of Spent Sulphuric Acid generated during manufacturing of G salt for production of R complex Gamma acid.
29. **Revised SOP for utilization of Spent Solvent for recovery of solvent.**

30. SOP for utilization of **Used/Waste Thinner** for manufacturing of industrial primer to be used as Automotive paints.
31. **SOP for utilization of Waste Dichromate Solution generated during manufacturing of Ibuprofen for production of Basic Chromium Sulphate.**
32. SOP for utilization of Spent Sulphuric Acid (generated during manufacturing of 3,5-Dichloro Nitro Benzene) and Spent SodiumThiosulphate.
33. SOP for utilization of Coal Tar and Tarry Residue generated from Coal Gasifier Units.
34. SOP for utilization of **Spent Phosphoric Acid** generated during manufacturing of Quinacridone Pigment, for production of Dibasic Calcium Phosphate
35. SOP for utilization of Spent Sulphuric Acid generated during manufacturing of Vinyl Sulphone, for production of H-Acid
36. SOP for utilization of **Flue Gas Cleaning Residue** generated from Steel Scrap Melting Induction Furnace, for zinc extraction.
37. SOP for utilization of Synthetic Oil Based mud / Oil based drill cutting waste in Road construction.
38. SOP for utilization of Gasifier Slag containing Nickel & Spent Catalyst containing Molybdenum generated during production of ammonia in nitrogenous fertilizer industry.
39. SOP for utilization of **Spent Carbon** (carbon residue) generated from Urea Fertilizer Industry.
40. SOP for utilization of **Spent Ion Exchange Resin** generated from Demineralization (DM) plant.
41. SOP for captive utilization of Spent Ion Exchange Resin generated from Demineralization (DM) plant in DRI Kiln of Sponge Iron.
42. Revised SOP for utilization of Spent Pot Lining (SPL) generated from Primary Aluminium Smelting Industries.
43. SOP for utilization of Tungsten Scrap (Tungsten carbide insert tips) generated from metal cutting operations.
44. SOP for utilization of Phenolic Waste Water generated from coal gasifiercondensate water.
45. SOP for utilization of Spent Sulphuric Acid generated during manufacturing of coal 313 dye using Anthraquinone.

46. SOP for utilization of Spent Sulphuric Acid generated during manufacturing 4, 4-Diamino benzene sulphanilide.
47. SOP for utilization of Spent Alumina generated from polymerization in swing unit of petrochemical plant
48. SOP for utilization of **Spent Acid** containing molybdenum generated during manufacturing of _laments in bulb/lamp Industry.
49. SOP for utilization of **Resin Waste** generated during resin impregnation of electrical coils.
50. SOP for utilization of Spent Ion Exchange Resin generated from Demineralization (DM) plant.
51. SOP for utilization of **ETP sludge** generated from pulp and paper industry.
52. SOP for utilization of Vanadium Sludge generated from Alumina Refineries.
53. SOP for utilization of Hydro Fluoro Silicic Acid generated from Single Super Phosphate Fertilizer Industries.
54. SOP for utilization of Spent Fixer (Hypo) Solution generated from Photographic/X-Ray Films.
55. SOP and Checklist of Minimal Requisite Facilities for utilization of hazardous wastes under Rule 9 of the HOWM Rules, 2016....
- 55 Utilization of APCD Dust/Residue generated from LD Furnace/Electric Arc Furnace/Blast Furnace of Steel Plant/captive Blast Furnace and FerroAlloy Plant for producing cold briquettes for use in Blast Furnace for production of Pig Iron
- 56 Utilization of **Spent Catalyst** containing precious metals to recover - Platinum, Iridium, Osmium, Palladium, Rhodium, Ruthium, Rhenium, Gold & Silver
- 57 Utilization of **Spent H2SO4** generated form Pickling operations for manufacturing Ferrous Sulphate
- 58 Utilization of Spent Acid containing Molybdenum generated from filament industries for producing Molybdenum Trioxide by heating process
- 59 Utilization of **Spent HCl** generated form steel rolling mills for producing Ferric Chloride
- 60 Utilization of Used Anode Butt generated form Aluminium smelters to produce Carbon Pellets and High Energy (HE) Coke for use in Steel furnaces/foundries.

- 61 Utilization of pre-processed **Used Anode Butt** generated from Aluminium smelters to produce Green Anodes through Anode-Baking Process for use in Aluminium Smelters
- 62 Utilization of Coal Tar/Tarry Residue generated from coal gasifier for energy recovery in sodium silicate industry.
- 63 Utilization of process sludge and primary **ETP sludge** generated from Pulp & Paper Industries for producing Paper Board/ Mill Board/ Card Board
- 64 Captive Utilization of Aluminium Dross generated from refining and casting house of Aluminium smelter units to recover Aluminium Metal
- 65 Utilization of Aluminium Dross generated from refining and casting house of Aluminium smelter units to recover Aluminium Metal
- 66 Utilization of Oil based iron sludge generated from grinding mill section of Ball & Roller bearings for producing Ferrous Sulphate
- 67 Utilization of **Spent catalyst** containing Mercury & Mercury Waste generated from various industry for recovering Mercury
- 68 Utilization of **Spent H₂SO₄** containing organic compounds generated from Dye and Dye intermediates to produce gypsum suitable for use in cement plants

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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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.”*

ANNEXURE -2

District Office:-

FORMAT FOR PROVIDING INFORMATION W.R.T. MANAGEMENT OF SPENT SOLVENT RECOVERY UNITS

1. Number of Spent Solvent generating units:
2. Number of Spent Solvent recovering units:
3. Of (2) above, how many units have been granted authorization:
 - (a) Prior to issuance of CPCB directions dated 30/01/2019:
 - (b) After issuance of CPCB directions dated 30/01/2019:
4. Of (2) above, how many has been verified for compliance of CPCB's SoP :
 - (a) Prior to issuance of CPCB directions dated 30/01/2019:
 - (b) After issuance of CPCB directions dated 30/01/2019:
5. Action taken by SPCBs /PCCs for enforcement of manifest system by all spent solvent recovery units (other than 7 below):
6. Of (2) above, how many of them are following manifest systems:
7. Of (2) above, action taken against erring units not following SoP & manifest system:
 - (a) Number of units found violating CPCB's SoP or manifest documents requirements or other provisions of the HOWM Rules, 2016.
 - (b) Number of units issued show-cause notices: -
 - (c) Number of units closed: -
 - (d) Number of units where penalties have been imposed:
 - (e) Any other actions (please specify type of actions and number of units against whom such actions have been taken):
8. Inventory of Spent Solvent recovery units (details of (2) in below format):

S. No.	Name of Solvent Recovery unit	Source of generation capacity (Category as per Schedule-I of HOWM Rules, 2016)	Authorised Capacity (MTA)	Validity	Product Recovered	Whether as per CPCB's SoP (Yes/No)	Does comply with requisite manifest document (Yes/No)
1							
2							

9. Number of interaction programme conducted to create awareness and sensitization of HOWM Rules, 2016 with all the stakeholder industries of spent solvent generation / utilization.
 - (a) Prior to issuance of CPCB directions dated 30/01/2019:
 - (b) After issuance of CPCB directions dated 30/01/2019:

SIGNATURE

ANNEXURE-3

LIST OF INDUSTRIES UTILISING WASTES CONTAING CHROMIUM AND/OR CHROMIUM (III)

Sl.No	District	Name & Address of the Industry	Permitted HW for processing
1	Kancheepuram	M/s Arihant Intermediates (Madras) Private Limited, SF No. 90/1, Sathamai Village, Maduranthagam Taluk, Kancheepuram District Pin code – 603 303.	Class A of Schedule-II waste containing chromium and/or chromium (III) compounds - 8400 T/Annum
2	Tiruvallur	M/s Ayes Dyes & Chemicals, Vanagaram Road, SF No. 25/1, Ayanambakkam Village, Ambattur Taluk, Tiruvallur District. Pin code – 600 095	28.1- Process Residue and wastes -1300 T/Annum
3	Villupuram	M/s Balaji Chemicals, SF No. 54/5, Kallakolathur Village, Tindivanam Taluk, Villupuram District. Pin code – 604 303	Class A of Schedule-II waste containing chromium and/or chromium (III) compounds - 1184.4 T/Annum
4	Erode	M/s Tanwell, 65, Mariamman Koil Street, SF No. 69/1, Virapalayam Village, Erode Taluk, Erode District Pincode – 638 003.	28.1-Process Residue and wastes - 2184 T/Annum
