

Form 2 -[Rule 6(2)] Authorization under Hazardous & Other Wastes [Management & Transboundary Movement]Rules,2016

Authorization No: 335348

Valid upto: 30/06/2026

Karnataka State Pollution Control Board Parisara Bhavana, No. 49, Church Street, Bengaluru-560001

Tele: 080-25589112/3, 25581383

Fax:080-25586321

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(This document contains 4 pages excluding annexure)

Authorization No: 335348 **PCB ID:** 10206 **Date:** 04/01/2023

FORM FOR GRANT OR RENEWAL OF AUTHORISATION BY STATE POLLUTION CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

Ref: 1. Authorization application submitted by the industry/organization on 16/05/2022 at Regional Office.

- 2. Inspection of the project site/organization by Regional Officer, Mangalore on 18/06/2022
- 3. Proceedings of CCM dated: , held on:
- 1. Number of authorization 335348 and date of issue 04/01/2023
- 2. Reference of application No. 88754 Inward Date 16/05/2022
- 3. DIRECTOR REFINERY of Mangalore Refinery And Petrochemicals Limited Kuthethoor P.O via, is hereby granted an authorization based on the enclosed signed inspection report for or any other use of hazardous or other wastes or both on the premises situated at the location **Address**: Mangalore Refineries And Petrochemicals Limited, Kuthethoor P , Kuthethoor Post **Industrial Area**: Mangalore , **Taluk**: Mangalore , **District**: Dakshina Kannada

Details of Authorization:

Category of Hazardous waste as per the Schedule I,II,III & IV of these rules	Description of Hazardous Waste	Quantity/Annum	Unit	Authorized Mode of Disposal or recycling or utilization or co-processing, etc.,
	1.6~Spent catalyst and molecular sieves	2.030	M.T	As Per Annexure
I	33.1~Empty barrels/containers/liner s contaminated with hazardous chemicals /wastes	15000.000	M.T	As Per Annexure
I	35.2~Spent ion exchange resin containing toxic metals	250.000	M.T	As Per Annexure
	3.3~Sludge And Filters Contaminated With Oil	300.000	M.T	As Per Annexure
I	1.1~Furnace/Reactor Residue And Debris	1.000	M.T	As Per Annexure



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1. The authorization shall be valid for a period upto 30/06/2026

A. General Conditions of authorization:

- 1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986 and the Rules made there under.
- 2. The authorization or its renewal shall be produced for inspection at the request of an Officer authorized by the Karnataka State Pollution Control Board.
- 3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous wastes and other wastes except what is permitted through this authorization and without obtaining prior permission of the KSPCB.
- 4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorization.
- 5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
- 6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".
- 7. It is the duty of the authorized person to take prior permission of the Karnataka State Pollution Control Board to close down the facility.
- 8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- 9. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
- 10. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- 11. An application for the renewal of an authorization shall be made '3' months before the date of expiry.
- 12. The Person authorized shall bring to the notice of the Board, if any increase in quantity, change in category and handling operation. In such cases, the authorized Person has to obtain fresh authorization.
- 13. Karnataka State Pollution Control Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions of this authorization or to suspend or cancel this authorization.
- 14. The Person authorized shall take steps for reduction and prevention of the waste generated or for recycling



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or reuse.

- 15. The authorized person shall maintain the records at site in Form-3 and shall submit the annual returns in Form-4 within 30th June every year for the Period April to March and manifest in Form-10.
- 16. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- 17. The hazardous and other waste which gets generated during recycling or reuse or recovery or perprocessing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
- 18. The transportation of hazardous waste shall have to be carried out only through registered/authorized vehicles meant for transportation of hazardous waste.
- 19. The Person Authorized shall not store the Hazardous Waste more than ninety days as per Rule 8 (1).
- 20. The Person Authorized shall transport and store the raw materials in a manner so as not to cause any damage to environment, life and property. The applicant shall be solely responsible for any damages to environment.
- 21. Display Boards: The person authorized shall display sign boards at the storage site as "Hazardous Waste Storage Site" and "Danger" and the site shall be provided with accident preventive measures.

Additional Conditions:

1) This authorisation is issued for period upto 30.06.2026 with conditions, for the categories of Hazardous waste and other wastes indicated in Annexure (sl.no 1 to 58) attached herewith. 2) Industry shall comply with the conditions prescribed in Annexure attached herewith and submit compliance.

> For and on behalf of the Karnataka State Pollution Control Board

CHIEF/ SENIOR ENVIRONMENTAL OFFICER

COPY TO:

- 1. The Environmental Officer, KSPCB, Regional Office, for information and to inspect the industry during your next visit to the area.
- 2. Master copy (Dispatch).
- **3.** Office copy.



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Signature Not Verified Digitally signed by Date: 2023.01.04 17:37:02 +05:30

ANNEXURE-I

ADDITIONAL CONDITIONS TO ACCOMPANY AUTHORISATION OF M/S MANGALORE REFINERY AND PETROCHEMICALS LIMITED, KUTHETHOOR, POST VIA KATIPALLA, MANGALORE TALUK, DAKSHINA KANNADA DISTRICT ISSUED UNDER THE PROVISIONS OF THE HAZARDOUS AND OTHER WASTE (MANAGEMENT AND TRANSBOUNDARY MOVEMENT) RULES, 2016.

- 1. This authorization shall be valid for a period upto 30/06/2026.
- 2. Industry is authorized to generate, storage, dispose the following Hazardous and Other wastes in accordance with the method authorized in Column no. (6)

SI. No.	Category of Hazardous Waste as HWM Rules	Description of Hazardous waste	Chemical Composition	Generation rate expected in MT	Mode of Handling, Storage, Transport, Disposal
1	4.5	Merox unit Spent Clay	Spent Clay with Hydrocarbons	90 (once in 6 years)	Shall be stored in secured manner and handed over to Cement Kiln for using it as alternate raw material /handed over to KSPCB authorized TSDF
2	2	HCU spent catalyst	Ni. Based on Al ₂ O ³ , SiO ₂ , NiMox, CoMox	450 (once in 4 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
3	B2 (Schedule II)	HCU Spent activated carbon	Hydrocarbon content 19.8%	129 MTPA	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
4	4.2	Hydrogen unit Spent H ₂ Reformer catalyst	Ni,Al₂O₃, CaO, MgO	38 (once in 2 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
5	4.2	Hydrogen unit Spent H ₂ shift converter catalyst	Cu, Fe ₂ O ₃ , Cr ₂ O ₃	62 (once in 5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
6	4.2	Hydrogen unit Spent CoMox catalyst	CoO, MoO ₃ supported on Al ₂ O ₃	15 (once in 5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.

SI. No.	Category of Hazardous Waste as HWM Rules	Description of Hazardous waste	Chemical Composition	Generation rate expected in MT	Mode of Handling, Storage, Transport, Disposal
7	4.2	Hydrogen unit Spent ZnO catalyst	ZnO	6 (once in 3 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
8.	4.2	Hydrogen Chloride Guard	Na ₂ AlO ₃	3.8 (once in 5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
9.	4.2	CCR unit Spent Naphtha Hydrotreater catalyst	CoO& MoO ₃ on Al ₂ O ₃	14.25 (once in 5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
10	.4.2	GOHDS unit Spent catalyst	Co, MoO₃ on Al₂O₃	98 (once in 3 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
11	4.5	MX unit Spent Clay	SiO ₂ , Al ₂ O ₃ , nH ₂ O Hydrocarbon	55 (once in 6 months)	Shall be stored in secured manner and handed over to Cement Kiln for using it as alternate raw material /handed over to KSPCB authorized TSDF
12	4.2	CCR unit Spent Platform Catalyst	Pt on Al ₂ O ₃	88.45 (once in 5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
13	4.2	SRU unit Spent BSR catalyst	CoO, MoO ₃ , Al ₂ O ₃	45 (once in 5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.

SENIOR ENVIRONMENTAL OFFICER
Waste Management Cell-2

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SI. No.	Category of Hazardous Waste as HWM Rules	Description of Hazardous waste	Chemical Composition	Generation rate expected in MT	Mode of Handling, Storage, Transport, Disposal
14	4.2	SRU unit Spent Selectox catalyst	V ₂ O ₅ , Al ₂ O ₃ /SiO ₃ , SiO ₂	42 (once in 10 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
15	4.2	SRU unit Spent Claus Catalyst	Activated Alumina	54 (once in 5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
16	36.2	CDU LPG treatment section Spent Charcoal	Charcoal	47.3 (once in 2 years)	Shall be in closed drums in secured manner & handed over to authorized Cement kiln for coprocessing/AFR processing unit/authorized incinerator.
17	4.2	DHDT spent catalyst	NiMox, CoMox	353 (once in 2 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
18	4.2	PFCC spent catalyst	Alumino Silicates	1760 MTPA	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
19	4.2	SRU spent Catalytic converter catalyst	Activated Alumina	110 (once in 5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
20	4.2	SRU Catalyst reducing reactor	CoMox	55 (once in 2 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
21	4.2	CHT spent catalyst	NiMox, CoMox	220 (once in 2 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.

SI. No.	Category of Hazardous Waste as HWM Rules	Description of Hazardous waste	Chemical Composition	Generation rate expected in MT	Mode of Handling, Storage, Transport, Disposal
22	4.2	HGU Spent Hydrotreating catalyst	CoO, MoO ₃ , Al ₂ O ₃	12.1 (once in 4-5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
23	4.2	HGU Spent Hydrogen Shift Converter catalyst	CoO, ZnO, Cr ₂ O ₃ , ZnCrO ₄	27.5 (once in 4-5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
24	4.2	HGU Spent steam pre-reforming catalyst	Al ₂ O ₃ , Nickel Oxide, Nickel, MgO.	17.6 (once in 2-3 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
25	4.2	HGU Spent Chloride guard catalyst	Al ₂ O ₃ , K ₂ CO ₃	13.2 (once in 4-5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
26	4.2	HGU Spent low temperature shift catalyst	CuO, ZnO, Al ₂ O ₃ , CuCO ₃	23.1 (once in 4-5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
27	4.2	HGU Spent Zinc Oxide Catalyst	Zinc Oxide	103 (once in 2 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
28	4.2	HGU Spent low temperature shift catalyst	CuO, ZnO, Al ₂ O ₃ , CuCO ₃	81.4 (once in 4-5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.

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SI. No.	Category of Hazardous Waste as HWM Rules	Description of Hazardous waste	Chemical Composition	Generation rate expected in MT	Mode of Handling, Storage, Transport, Disposal
29	4.2	HGU Spent reforming catalyst	Nickel Oxide, Al ₂ O _{3,} MgO	30.8 (once in 4- 10 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
30	4.2	PPU Spent Hydrogen Treater Catalyst	Nickel Oxide	0.33 (once in 5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
31	5.2	PPU Treated Waste white oil	Medicinal white oil with Tri-Ethyl- Aluminum/ Isopropanola mine/Alkylami neethoxylate	18.74 (per Annum)	Shall be stored in closed drums in secured manner & handed over KSPCB authorized Cement Kiln for co-processing/ AFR processing unit/authorized incinerator.
32	4.1	WWTP Oily sludge	Oily emulsion	50 m ³ per day in WWTP-III, 1000 MT, per Annum in WWTP- I&II and 27.5 MT per Annum in Refinery	Shall dewater in centrifuges & stored in impervious sludge lagoons / pit. Processed in Delayed Coker Unit (DCU) / Sent to SPCB authorized cement Kiln Co-processing / Bio-Remediation.
33	3.3	Crude tank bottom sludge	Oily sludge	3000 (once in 10 years)	
34	5.1	Used/Spent oil	Oil	16.74 MTPA	Shall be missed with curde in- house and processed in house along with crude.
35	33.1	Discarded containers	Plastic/MS	116.875 MTPA (8500 No.of 200 liters cap.)	Shall be stored in secured manner & de-contaminated in accordance with SOP approved by CPCB and sold for industrial use after complete decontamination.
36	1.6	Molecular Sieves	Zeolite, Al2O3, Silica Gel, Mineral Binders	5 (once in 2 years)	Shall be stored in secured manner & disposed to KSPCB authorized TSDF.

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SI. No.	Category of Hazardous Waste as HWM Rules	Description of Hazardous waste	Chemical Composition	Generation rate expected in MT	Mode of Handling, Storage, Transport, Disposal
37	5.2	Oil soaked Cotton waste & Insulation material.	Hydrocarbons with cotton & rock wool	1MTPA	Shall be stored in secured manner & disposed to KSPCB authorized Cement Kiln for co-processing /AFR processing unit /authorized incinerator.
38	1.1	Furnaces / Rector refractories & Soot material	Al ₂ O ₃ , SiO _{2,} Carbon	1МТРА	Shall be stored in secured manner & disposed to KSPCB authorized TSDF.
39	1.6	ISOM unit Feed driers spent Adsorbent(Molec ular sieves)	SiO ₂ , Al ₂ O ₃ , NaO ₂ , MgO ₂	20.3 (once in 10 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
40	4.2	ISOM unit spent sulfur Guard catalyst	Ni/NiO, ZnO & Al ₂ O ₃	6.6 (once in 1.5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
41	4.2	ISOM unit spent ZnO catalyst	ZnO	6.2 (once in 5 months)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
42	4.2	ISOM unit spent Bensat catalyst	Al ₂ O ₃ &Pt	5.75 (once in 5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
43	4.2	ISOM unit Methanator spent catalyst	Ni/NiO	7.5 (once in 5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
44	4.2	ISOM unit Penex spent catalyst	Al ₂ O ₃ ,AlCl ₃ &Pt	107.5(once in 5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.

SI. No.	Category of Hazardous Waste as HWM Rules	Description of Hazardous waste	Chemical Composition	Generation rate expected in MT	Mode of Handling, Storage, Transport, Disposal
45	Sr. No.4.2	ISOM unit LNHT reactor spent catalyst	Al ₂ O ₃ ,MoO ₃ &C oO	13.4(once in 5 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
46	4.2	PFCC Arsine Bed	ZnO, CuO, Al ₂ O _{3 &} Graphite	25 (once in 4 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
47	4.2	PFCC Selxborb Cos	Al ₂ O ₃ Plus inorganic promotor	25 (once in 4 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln/authorized TSDF for land fill.
48	4.2	PFCC Selxsborb	Al ₂ O ₃ Plus inorganic modifier	25 (once in 4 years)	Shall be in closed drums in secured manner & handed over to authorized re-processor or recycler of spent catalyst/ Coprocessing in Cement Kiln /authorized TSDF for land fill.
49	B1180 Part- B(Schedule- III)	Photographic films	Silver halide, metallic silver and plastic	0.1 per annum	Stored in closed drums in secured manner & handed over to KSPCB authorized recovery unit complying with SOP requirement of CPCB for recovery of silver.
50	B11040 Part- B(Schedule- III)	Scrap assemblies from electrical power generation not contaminated with lubricating oil, PCB or PCT to an extent to render them hazardous	Lubricating oil, PCB or PCT	50 MTPA	Shall be stored in secured manner and handed over to KSPCB authorized recycler/re-processor.

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SI. No.	Category of Hazardous Waste as HWM Rules	Description of Hazardous waste	Chemical Composition	Generation rate expected in MT	Mode of Handling, Storage, Transport, Disposal
51	B1090 Part- B(Schedule- III)	Waste batteries conforming to a standard battery specification, excluding those made with lead, cadmium or mercury	Lead cadmium or mercury	1 MTPA	Shall be stored in closed secured place and handed over to KSPCB authorized recyclers.
52	B1110 Part- B(Schedule- III)	Used electrical and electronic assemblies other than those listed in Part D of schedule III electronic assemblies consisting only of metals or alloys waste electrical and electronic	Metals or alloys waste electrical and electronic assemblies	10 MTPA	Shall be stored in secured place & handed over to KSPCB authorized recycler/re-user/ extractor for recovery
		assemblies or scrap(including printed circuit boards) not containing com			
53	B ₄ (Schedule II)	Lead and lead compounds	Lead	0.1 MTPA	Shall be stored in secured manner and handed over KSPCB authorized Secondary lead processing unit.
54	D₅(Schedule II)	Total Hydrocarbons other than those listed under A12 to A18	Hydrocarbons	516 MTPA	Shall be stored in secured manner and handed over to KSPCB authorized recycler/re-user/extractor for recovery/waste oil re-processing unit.
55	B2(Schedul e-II)	Wastes containing principally inorganic constituents, which may contain metals and organic metals	Inorganic constituents	129 per annum	Shall be stored in secured manner and handed over to KSPCB authorized Cement Kiln for using it as alternate raw material /disposed to KSPCB authorized TSDF.

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SI.	Category of	Description of	Chemical	Generation	Mode of Handling, Storage,
No.	Hazardous	Hazardous waste	Composition	rate	Transport, Disposal
	Waste as			expected in	
	HWM Rules			MT	
56	SI.	Insulated copper	Insulated	150 MTPA	Shall be stored in secured manner
	No.7(Sched	wire scrap with	copper wire		and handed over authorized
	ule-IV)	PVC sheathing	scrap with		actual recycler.
		icluding	PVC		
57	B3050 Part-	Untreated cork	Cork and	100 per	Shall be stored in secured manner
	B(Schedule-	and wood waste	wood waste	annum	and handed over authorized
	III)				actual user.
58	B1010 Part-	Metal and metal	Iron and steel	1000 MTPA	Shall be stored in secured manner
	D(Schedule-	bearing wastes	scrap, tin		and handed over KSPCB
	III)		scrap		authorized actual user

- 3. The Occupier of the facility (Generator) shall use e-manifest system (Web Portal) for generation of manifest as per Rule 18 of the Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016, while disposing the Hazardous /Other Waste authorized facility.
- 4. The generator shall hand over the Hazardous Waste and Other Waste only to the authorized recycler /actual user of the waste after making appropriate entries in the Passbook issued by the Board to respective actual user as per Rule 6 (8) of H & OW(M & TM) Rules, 2016.
- 5. The Generator shall not generate and dispose any other Hazardous / Other Waste to any transporter/ waste facilitator/TSDF/Incinerator/Co-processing without obtaining prior authorization of the Board under H & OW (M & TM) Rules, 2016.
- 6. The Generator shall establish environmentally sound procedure for de-contamination of containers (including liners) for each of the chemicals used by the industry and ensure that, the authorized recycler to whom the industry intends to hand over possess the required facilities required to effective decontamination.
- 7. The procedure for de-contamination of chemical Containers (including liners) shall comprise of i) name of the Chemical stored ii) CAS No. iii) Procedure for de-contamination (Water rinse using pressurized or gravity flow, Chemical leaching and extraction, Evaporation/vaporization, Pressurized air jets, Chemical Detoxification, Halogen stripping, Neutralization, Oxidation/reduction, Disinfection/Sterilization Chemical disinfection etc.,) iv) Medium for de-contamination (water, dilute acids, dilute bases, detergents, soaps, organic solvents etc.,) and v) quantity of medium required for each type of chemical container for effective decontamination, personal protective equipment's required, quality to be achieved, etc., to ensure safe de-contamination of chemicals barrels/container and liners by authorized barrel recyclers before putting the barrels for further industrial use. A copy the decontamination procedure developed by the Generator shall be handed over to the authorized recyclers while handing over the barrels or entering MOU with a Copy to Member Secretary, Karnataka State Pollution Control Board, Bangalore.
- 8. If any of the container (liner) is not in recyclable conditions or cannot be de-contaminated, then such containers (liners) shall be mandatorily handed over to authorised incinerators/ sent of co-processing in cement kiln in case of Plastic/HDPE containers or authorised Secondary Metal recycling unit for metal recovery.

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9. The Generator shall carryout periodic audit to ensure de-contamination as per the procedure developed ass per conditions no. 6 to 8. The Generators shall be liable under the Extended User Responsibility for violation by the Recyclers in case of non-compliance.

- 10. The Generator shall dispose off the "PVC and FRP waste, RO membrane etc., to authorized Cement Unit for co-processing/AFR in accordance with Guidelines prescribed by Central Pollution Control Board for "Disposal of Thermoset Plastic Waste including Sheet Molding Compound (SMC)/ Fiber Reinforced Plastic (FRP)" available in CPCB web site.
- 11. The disposal hierarchy for mode of disposal in case of incinerable waste shall be in the following order namely i) Co-processing in Cement Kiln ii) handing over to Alternate Fuels and Raw materials processing unit and iii) incineration. In case of land fillable waste, the hierarchy shall be i) handing over to authorized cement kiln to use it as alternate raw materials depending the characteristic of the Waste and acceptance by cement kiln ii) handing over authorized TSDF.
- 12. The Occupier of the facility shall dispose off "Use lead Acid Batteries" by depositing /returning / handing over KSPCB authorized dealer, manufacturer, registered recycler as per the Batteries (Management and Handling) Rules, 2022.

13. The industry shall submit point wise compliance within 30 days.

SENIOR ENVIRONMENTAL OFFICER
Waste Management Cell-2

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