
**Standard Operating Procedure for Processing the Proposals for Utilization of
Hazardous Waste under Rule 9 of the Hazardous and Other Wastes
(Management and Transboundary Movement) Rules, 2016**



cpcb

December 2016

Central Pollution Control Board
Hazardous Waste Management Division
(Ministry of Environment, Forest & Climate Change, Government of India)
'Parivesh Bhawan', East Arjun Nagar
Shahdara, Delhi – 110032

Standard Operating Procedure for Processing the Proposals for Utilization of Hazardous Waste under Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

Background:

The Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, stipulates that;

“(1) The utilisation of hazardous and other wastes as a resource or after pre-processing either for co-processing or for any other use, including within the premises of the generator (if it is not part of process), shall be carried out only after obtaining authorisation from the State Pollution Control Board in respect of waste on the basis of standard operating procedures or guidelines provided by the Central Pollution Control Board.

(2) Where standard operating procedures or guidelines are not available for specific utilisation, the approval has to be sought from Central Pollution Control Board which shall be granting approval on the basis of trial runs and thereafter, standard operating procedures or guidelines shall be prepared by Central Pollution Control Board:

Provided, if trial run has been conducted for particular waste with respect to particular utilisation and compliance to the environmental standards has been demonstrated, authorisation may be granted by the State Pollution Control Board with respect to the same waste and utilisation, without need of separate trial run by Central Pollution Control Board and such cases of successful trial run, Central Pollution Control Board shall intimate all the State Pollution Control Board regarding the same.

(3) No trial runs shall be required for co-processing of waste in cement plants for which guidelines by the Central Pollution Control Board are already available; however, the actual users shall ensure compliance to the standards notified under the Environment (Protection) Act, 1986 (29 of 1986), for cement plant with respect to co-processing of waste, Provided that till the time the standards are notified, the procedure as applicable to other kind of utilisation of hazardous and other waste, as enumerated above shall be followed “

As per the aforesaid provisions of utilization of hazardous and other wastes as a resource or after pre-processing either for co-processing or for any other use, including within the premises of the generator (if it is not part of process), shall be carried out only after taking approval from Central Pollution Control Board (CPCB) and/or obtaining authorisation from the State Pollution Control Board in respect of waste on the basis of standard operating procedures or guidelines provided by the CPCB, as the case may be.

In view of above, below is revised procedure for processing applications received at CPCB for grant of approval and development of standard operating procedures or guidelines for various proposed utilisation of hazardous and other wastes:

1. Acceptance of Application for Utilization Proposal of Hazardous Waste

The following procedure shall be followed for acceptance of applications for CPCB's approval for utilization of a hazardous waste;

- a) The proponent shall submit an application to concerned SPCB/PCC in a prescribed format (given at Annexure-I), with request to forward their application to CPCB after endorsing the consent to establish granted to the proponent within a period of 15 days. The following documents shall be attached ;

Standard Operating Procedure for Processing the Proposals for Utilization of Hazardous Waste under Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

- i. Scanned copies of valid Consent to Establish or Operate under the Air Act & Water Act from the concerned SPCB/PCC.
 - ii. Details regarding patented technologies if any adopted by him that may require non-disclosure for public information.
- b) Proponent shall also submit details online at CPCB website w.r.t. characteristics of hazardous waste intended to be utilized, sources, utilization process, product and end-use etc as per the format given in the website i.e. <http://164.100.43.186:8080/HWMD/>.
 - c) Upon receipt of endorsement from SPCB, CPCB shall process the application and incomplete applications be communicated to the applicant within 10 days; in case of no response within 20 days from the applicant; the application shall be treated as withdrawn.
 - d) In case if the proposal pertains to utilization of similar hazardous waste (i.e hazardous waste for which the utilization permission has already been granted earlier by CPCB) adopting similar process for similar use, for CPCB has already prepared standard operating procedures or guidelines and circulated to all SPCBs/PCCs, the application shall be forwarded to the concerned SPCB/PCC for grant of authorisation on the basis of the said standard operating procedures or guidelines.

2. Processing of New Utilization Proposals

In case the proposal is for new hazardous wastes utilization, for which CPCB has not prepared standard operating procedures or guidelines, CPCB shall follow the following procedure for grant of approvals;

- a) Trial run for utilization of HW shall be conducted for all new utilization proposals.
- b) Complete applications (as per the prescribed format) shall be evaluated** by CPCB and a protocol** for conducting trial utilization study shall be prepared specifying the duration, quantity of hazardous waste to be procured for trial, the parameters to be analyzed for air/water/wastes streams/soil/work-zone air quality etc., permissible standards for applicable parameters, sampling duration, number of samples, chemical mass balance of the principal constituents of concern etc. for the proposed trial run. The same shall be approved by Member Secretary, CPCB.
- c) A formal letter in this regard attaching the aforesaid protocol shall be issued by CPCB to the unit for conducting the said trial run with copy to SPCB/PCC and CPCB (ZO or HO team) within 30 days from receipt of complete application.
- d) Aforesaid trial run can be given for a maximum period of 30 days in a stretch. Validity of such trial run shall be for period of 3 months from the day of issue of trial run permission letter.
- e) Based on aforesaid letter, the unit shall procure the required hazardous waste for trial run from the generating industry as declared by the unit.

Standard Operating Procedure for Processing the Proposals for Utilization of Hazardous Waste under Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

- f) NOC for inter State transport of hazardous waste for utilization is not required from SPCB/PCC. However, the sender of hazardous wastes to be utilized shall intimate both the SPCBs before handing over the waste to the transporter in accordance with provisions laid down under the Rule 18(4) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- g) The unit shall engage an EPA/NABL/ISO17025 accredited laboratory for carrying out the monitoring of trial utilization as per the protocol prepared by CPCB. The laboratory shall have accreditation (EPA/NABL/ISO17025) for the parameters specified for the trial run protocol. In case the unit is unable to engage any laboratory having the said accreditation for any parameters, international labs accredited under ISO 17025 may be engaged for analysis of such parameters.
- h) The unit shall inform CPCB and the concerned SPCB/PCC about their preparedness of carrying out trial run at least 15 days in advance so as to enable CPCB and the SPCB/PCC official in participating in the said trial utilization and monitoring.
- i) The unit shall reimburse the actual expenses incurred by CPCB including the sampling and analysis costs as per EPA notified rates, where EPA rates are available for given parameter.
- j) Trial run monitoring shall be conducted at peak load.
- k) Trial run performance by laboratory shall be carried out in presence of the CPCB & SPCB/PCC officials. CPCB (ZO or Head Office team) shall collect few random samples for verification purpose during the same.
- l) The laboratory engaged shall submit a trial utilization report within 20 days on completion of trial utilization monitoring and other information as prescribed in the monitoring protocol and submit the report to Head Office CPCB.
- m) Inspecting team of CPCB shall submit a separate report (analysis results and information as per the protocol) to Head Office, CPCB, within 20 days from date of trial run. The report shall be very specific with clear cut observations, shortcomings and recommendations with no subjectivity.
- n) In case of major deviation between the results of samples collected by CPCB Zonal office/ Head Office and laboratory engaged, the monitoring shall be repeated.
- o) Standard for selected parameters shall be taken from notified standards under Environment(Protection) Act, 1986, and if not available, CPCB may propose referring international practices/ standards, wherever applicable.
- p) A condition for installing CEMS for air emissions and wastewater discharge, as per the prevailing policy of CPCB or as appropriate, for units shall be imposed.
- q) Based on the trial study reports, individual case shall be examined** for compliance to monitored parameters and requisite infrastructure as per trial run protocol. The matter shall accordingly be placed before Member Secretary/ Chairman, CPCB for granting approval/conditional approval or refusal as the case may be. Accordingly, CPCB, shall issue a letter to SPCB (with copy to proponent) granting approval under Rule-9.

Standard Operating Procedure for Processing the Proposals for Utilization of Hazardous Waste under Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

- r) CPCB shall develop a checklist and SOPs for utilization of similar hazardous waste adopting similar process which has been assessed through inspection and trial run.
- s) The unit shall submit monthly and annual information on hazardous waste consumed, its source, products generated or resources conserved to the concerned SPCB/PCC.
- t) The conditions specified in the SOPs shall be part of authorization/consent issued by SPCB/PCC.

*** Complete applications are evaluated by CPCB considering environmental soundness of the utilization proposal; pollution potential for emissions/discharges; potential for ground/soil contamination; adequacy of the proposed facility for control of pollution; quantity of residue/waste generated; potential exposure to the workers and nearby community; etc. If utilization proposal found satisfactory, trial run monitoring protocol shall be recommended along with emission/discharge/workzone standards. Further, upon satisfactory verification during trial run, CPCB shall grant approval and prepare standard operating procedure or guidelines thereof.*

4. Validity of Approvals

- a) No validity period for the approvals issued under the Rule-9 shall be specified as long as there is no change in utilization process, raw material and product use, wherever applicable. The conditions specified as part of approval shall be enforced by the concerned SPCB/PCC.
- b) In cases where violations are observed by CPCB or the concerned SPCB/PCC, the approval under Rule-9 shall be cancelled by CPCB or SPCB/PCC, as the case may be.

It shall be the endeavour of CPCB to continuously improve upon the utilization process based on the technology improvements, implementation and experience gained on larger scale. Therefore, the conditions specified in SoPs and Check-list is subjected to change from time to time.

Standard Operating Procedure for Processing the Proposals for Utilization of Hazardous Waste under Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

Annexure-I

Format* for obtaining approval from the Central Pollution Control Board under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

1	General Information	
1.1	Name & Address of the Unit:	
1.2	Contact Person and phone number:	
1.3	Products to be manufactured and quantity (MT/Day):	
2	Details of hazardous waste to be utilized	
2.1	Name & address of hazardous or other waste generating industry:	
2.2	Name/Type of the hazardous wastes or other waste including category (as per the Schedule I or II or III) intended for utilization:	
2.3	Detailed characteristics of hazardous waste or other waste proposed for utilization:	
2.4	Process details from which such hazardous or other waste is generated:	
3	Details of utilization of hazardous or other wastes	
3.1	Proposed quantity (in MTA) of hazardous or other waste to be utilized	
3.2	Process details for utilization of hazardous or other waste and its Flow Diagram:	
3.3	Please attach copy of air consent, water consent and authorization:	
3.4	Base line data including characteristics pertaining to air emissions, waste water generation and other solid wastes including hazardous or other waste expected to be generated in the proposed utilization process:	
3.5	Material Balance with and without utilizing hazardous or other wastes, in case the waste is proposed for utilization/co-processing in an already existing process:	
3.6	Details of hazardous or other waste storage facility and process area facility:	
3.7	Quantity of fuel and/or raw material that are expected to be conserve (in % of raw material replaced) from the proposed utilization:	
3.8	Data including characteristics pertaining to air emissions, waste water generation and other solid wastes including hazardous waste expected to be generated during utilization of hazardous or other wastes.	
3.9	Details of findings of laboratory/ pilot scale study, international practice etc.	
3.10	Name of the product (to be manufactured from utilization of hazardous or other waste), if any, its characteristics and where the same will be used and in which process:	

* To be filled and submitted to the concerned SPCB/PCCB by the unit, who desires to utilize hazardous or other wastes as a resource or after pre-processing either for co-processing or for any other use, including within the premises of the generator (if it is not part of process)