



ANDHRA PRADESH POLLUTION CONTROL BOARD
D.No.33-26-14D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
Chalamalavari Street, Kasturibaipet, Vijayawada - 520 010
Phone. No.0866-2463200, Website : www.appcb.ap.nic.in

RED CATEGORY
CONSENT, HWM & BMW AUTHORISATION ORDER

Consent Order No :APPCB/VSP/VSP/12/BMWM/CBMWTF/2019-

17/04/2019

CONSENT is hereby granted for Operation under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary, Movement) Rules, 2016 and the rules and orders made there under and Renewal of Authorisation under Rule 10 (2) of the Bio-Medical Waste Management Rules, 2016 (hereinafter referred to as 'the Acts', 'the Rules') to:

M/s. Vasishta Environ Care,
Plot No 27A25, Denotified Area AP SEZ,
Atchutapuram Rambilli (M),
Visakhapatnam District.
E-mail: vasishtaenvironcarevsp@gmail.com

(Hereinafter referred to as 'the Applicant') authorizing to operate the Common Biomedical Waste Treatment Facility to discharge the effluents from the outlets and the quantity of Emissions per hour from the chimneys as detailed below:

i) Out lets for discharge of effluents:

Outlet No.	Outlet Description	Max Daily Discharge (KLD)	Point of Disposal
1.	Washings	3.0	Shall be treated in ETP. Treated waste water shall be used for onland irrigation within the premises duly meeting the standards stipulated.
2.	Domestic Effluents	0.5	Septic tank followed by soak pit.

ii) Emissions from chimneys:

Chimney No.	Description of Chimney	Quantity of emissions at peak flow
1.	Attached to 200 kgs/hr incinerator	--
2.	Attached to 1 x 75 KVA DG set	--

iii) HAZARDOUS WASTE AUTHORISATION (FORM - II) [See Rule 6(2)]:

M/s. Vasishta Environ Care, Plot No 27A25, Denotified Area AP SEZ, Atchutapuram Rambilli (M), Visakhapatnam District is hereby granted an authorisation to operate a facility for collection, reception, transport, storage and disposal of the following wastes with quantities as below:

S. No	Name of the Hazardous waste	Stream	Quantity of Hazardous wastes	Disposal Option
1.	Incineration ash	37.2 of Schedule - I	0.80 TPD	To TSDF, Parawada, Visakhapatnam
2.	Used Oil / Waste Lubrication Oil	5.1 of Schedule-I	50 LPA	To authorized Re-processors / Recyclers / to the Cement industries to use as alternate fuel in the kiln
3.	Waste Plastic		25 Kgs/day	To APPCB authorized recyclers
4.	Bag filter dust/Spray Drier waste	37.2 of Schedule I	25 Kgs/day	To TSDF for secured landfill
5.	ETP Sludge	35.3 of Schedule I	2 Kgs/day	To TSDF for secured landfill

iv) BIO-MEDICAL WASTE AUTHORISATION (FORM-IV) [See Rule 10(2)] :

(Authorisation for operating a common biomedical waste treatment and disposal facility for collection, reception, treatment, storage, transport and disposal of biomedical waste)

M/s. Vasishta Environ Care is hereby granted an authorisation to operate a common facility for collection, reception, storage, transport and disposal of the biomedical waste in the premises situated at Plot No 27A25, De-notified Area AP SEZ, Atchutapuram Rambilli (M), Visakhapatnam District in accordance with the Bio-Medical Waste Management Rules, 2016 and the guidelines for Common Bio-medical Waste Treatment Facility, issued by Central Pollution Control Board.

This order is valid for operation of a Common Bio-medical Waste Treatment and disposal facility to cater the needs of the following HCFs located in Visakhapatnam District.

- All the HCFs which are not having tie-up with existing CBWTF as on date of this order.
- All new HCFs that will come up from the date of this order.
- Any fresh authorization given by the Board from date of this order.
- HCFs may be added or deleted by the Operators of CBMWTFs in the district with the mutual consent under intimation to the APPCB, for the operational point of view.
- Any other HCFs permitted by the Board.

This order is subject to the provisions of 'the Acts' and the Rules' and orders made there under and further subject to the terms and conditions incorporated in the schedule A, B, C enclosed to this order.

This combined order of Consent, Hazardous Waste & Bio-medical Waste Authorisation shall be valid for a period ending with the **29th Day of February, 2024.**

BANDLA SIVA SANKARA PRASAD
CHAIRMAN

To
M/s. Vasishta Environ Care,
Plot No 27A25, Denotified Area AP SEZ,
Atchutapuram Rambilli (M),
Visakhapatnam District

Copy to:

1. The JCEE, Zonal Office, Visakhapatnam for information and necessary action. He is directed to mention the disposal option in the BMW Authorizations issued to the new HCFs & the HCFs which were not having tie-up with the existing CBMWTF in Visakhapatnam district, as M/s. Vasishta Environ Care.
2. The DMHO, Visakhapatnam for information and necessary action.
3. The Environmental Engineer, Regional Office, **Visakhapatnam** for information and necessary action. He is directed to mention the disposal option in the BMW Authorizations issued to the new HCFs & the HCFs which were not having tie-up with the existing CBMWTF in Visakhapatnam district, as M/s. Vasishta Environ Care.

SCHEDULE - A

1. Any up-set condition in any industrial plant / activity of the industry, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.
2. The industry should carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.
3. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.
4. The industry should put up two sign boards (6x4 ft. each) at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises.
5. Not withstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.
6. The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.
7. The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board. The industry should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises / lend / sell / transfer their industrial premises

without obtaining prior permission of the State Pollution Control Board.

8. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.

SCHEDULE - B

1. The facility shall start operation only after commissioning of all the infrastructure facilities as per the guidelines issued by the CPCB for safe disposal of bio-medical waste.
2. The facility shall collect the Bio-Medical waste as per the BMW Rules and amendments thereof from the Health Care Facilities (HCFs) as authorized by the Board.

Water Pollution:

3. The water consumption shall not exceed the quantities mentioned below:

S.No	Purpose	Quantity(KLD)
1.	Process & Washings	3.0
2.	Scrubbers system	0.5
3.	Domestic	1.0
TOTAL		4.0

4. Digital flow meters with totalizers with necessary pipelines shall be provided so as to assess the water used for different purposes, inlet & outlet of the ETP within 15 days and maintain them properly and also maintain the records of the readings.
5. The effluent discharged shall not contain constituents in excess of the tolerance limits mentioned below:

Outlet	Parameter	Limiting Standards
1	pH	6.5 - 9.0
	Total Suspended Solids	100 mg/l
	Oil and Grease	10 mg/l
	BOD	30 mg/l
	COD	250 mg/l
	Bio Assay test	90% survival of fish after 96 hours in 100% effluent

6. All activities like washing of vehicles, packing of shredded items, transferring or storage of any waste shall be done in the closed shed only.
7. The operator shall provide a closed pipeline system for carrying the effluent from the generation point to the ETP in order to avoid the mixing with rainwater.

Air Pollution:

8. The emissions from incinerator shall not contain constituents in excess of the prescribed limits mentioned below.

Chimney No.	Parameters	Concentration mg/Nm ³ (at 12% CO ₂ correction)
1	Particular matter	50
	Nitrogen Oxides NO and NO ₂ expressed as NO ₂	400
	HCl	50
	Total Dioxins and Furans	0.1ngTEQ/Nm ³ (at 11% O ₂)
	Hg and its compounds	0.05

All monitored values shall be corrected to 11% Oxygen on dry basis.

9. The facility shall comply the following Operating Standards of the incinerator.

a. Combustion Efficiency (C.E) shall be atleast 99%

$$CE = (\%CO_2 \times 100) / (\%CO_2 + \%CO)$$

b. The temperature of the primary chamber shall be a minimum of 800⁰C

c. The temperature of the secondary chamber shall be minimum of 1050⁰C (+ or -) 50⁰C.

d. The secondary chamber gas residence time shall be at least two seconds.

10. Only low Sulphur fuel like Light Diesel Oil or Low Sulphur Heavy Stock or Diesel, Compressed Natural Gas, Liquefied Natural Gas or Liquefied Petroleum Gas shall be used as fuel in the incinerator.

11. The facility shall monitor the stack gaseous emissions (under optimum capacity of the incinerator) once in three months through a laboratory approved under the Environment (Protection) Act, 1986 and record of such analysis results shall be maintained and submitted to the prescribed authority. In case of dioxins and furans, monitoring should be done once in a year.

12. The facility shall immediately install continuous emission monitoring system for the parameters stipulated in authorisation and transmit the data real time to the servers at State Pollution Control Board and Central Pollution Control Board as per CPCB directions.

13. Minimum stack height shall be 30 meters above the ground and shall be attached with the necessary monitoring facilities as per requirement of monitoring of 'general parameters' as notified under the Environment (Protection) Act, 1986 and in accordance with the Central Pollution Control Board Guidelines of Emission Regulation Part-III.

14. The shredder for bio-medical waste shall be of robust design with minimum maintenance requirement. In case of shock loading (non-shreddable material in the hopper), there shall be a mechanism to automatically stop the shredder to avoid any emergency/accident.

15. The facility shall comply with ambient air quality standards of PM₁₀ (Particulate Matter size less than 10 microns) - 100 micro gram/ m³; PM_{2.5} (Particulate Matter size less than 2.5 microns) - 60 micro gram/ m³; SO₂ - 80 micro gram/ m³; NO_x - 80 micro gram/ m³, outside the factory premises at the periphery of the industry.

Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009 shall be complied. Following standards prescribed for noise shall be complied.

Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A)

Night time (10 PM to 6 AM) - 70 dB (A)

16. The facility shall operate APCE of cyclone separator, high pressure venture scrubber, droplet separator and 30 mtrs height stack.
17. The burners shall be inter locked with respective chamber temperatures and in case of any malfunction of the unit, the entire unit consisting of F.D. Fan, I.D. Fan and primary & secondary chamber burners shall be stopped.
18. A programmable logic control (PLC) based control system shall be installed to the incinerator.

Other Conditions:

19. The facility shall comply with the following guidelines issued by the CPCB:
 - a. Guidelines for Management of Healthcare Waste as per Biomedical Waste Management Rules, 2016
 - b. Guidelines for Bar Code System for Effective Management of Bio-medical Waste
 - c. Revised Guidelines for Common Bio-medical Waste Treatment and Disposal Facilities
 - d. Environmentally Sound Management of Mercury Waste generated from the HCFs.
20. All solid wastes arising in the premises shall be disposed in a properly designed secured landfill to ensure non-contamination of the soil and ground water.
21. The applicant shall submit an annual report to the A.P. Pollution Control Board in Form-IV by 31st June every year to include information about the categories and quantities of bio-medical waste handled during the preceding year.

SCHEDULE - C

[See rule 6(2)]

[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES]

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation 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 authorised 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 authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. An application for the renewal of an authorisation shall be made as laid down under these Rules.
9. 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.

Specific Conditions:

10. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
11. The facility shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
12. The facility shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.
13. The facility shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.
14. The facility shall maintain proper records for Hazardous and Other Wastes stated in Authorisation in Form-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form-4 as per Rule 20 (2) of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.

SCHEDULE - D

[FORM-IV: See Rule 10(2)]

(Authorisation for operating Bio Medical Waste Treatment Facility for collection, reception, treatment, storage, transport and disposal of biomedical wastes)

15. The CBMWTF shall take all necessary steps to ensure that the bio-medical waste collected from the occupier is transported, handled, stored, treated and disposed of, without any adverse effect to the human health and the environment, in accordance with these rules and guidelines issued by the Central Government or, as the case may be, the central pollution control board from time to time.
16. The CBMWTF shall ensure timely collection of bio-medical waste from the occupier as prescribed under BMWM Rules 2016.
17. The CBMWTF shall establish bar coding and global positioning system for handling of bio- medical waste with immediately.
18. The CBMWTF shall inform the prescribed authority immediately regarding the occupiers which are not handing over the segregated bio-medical waste in accordance with BMWM Rules 2016.
19. The CBMWTF shall provide training for all its workers involved in handling of bio-medical waste at the time of induction and at least once a year thereafter.
20. The CBMWTF shall assist the occupier in training conducted by them for bio-medical waste management.
21. The CBMWTF shall undertake appropriate medical examination at the time of induction and at least once in a year and immunise all its workers involved in handling of bio-medical waste for protection against diseases, including Hepatitis B and Tetanus, that are likely to be transmitted while handling bio-medical waste and maintain the records for the same.

- 22.The CBMWTF shall ensure occupational safety of all its workers involved in handling of bio-medical waste by providing appropriate and adequate personal protective equipment.
- 23.The CBMWTF shall report major accidents including accidents caused by fire hazards, blasts during handling of bio- medical waste and the remedial action taken and the records relevant thereto, (including nil report) in Form I to the prescribed authority and also along with the annual report.
- 24.The CBMWTF shall maintain a log book for each of its treatment equipment according to weight of batch; categories of waste treated; time, date and duration of treatment cycle and total hours of operation.
- 25.The CBMWTF shall allow occupier, who are giving waste for treatment to the operator, to see whether the treatment is carried out as per the BMW Rules 2016.
- 26.The CBMWTF shall display details of authorisation, treatment, annual report etc on its web-site.
- 27.The CBMWTF after ensuring treatment by autoclaving or microwaving followed by mutilation or shredding, whichever is applicable, the recyclables from the treated bio-medical wastes such as plastics and glass, shall be given to recyclers having valid consent or authorisation or registration from the respective State Pollution Control Board or Pollution Control Committee.
- 28.The CBMWTF shall supply non-chlorinated plastic colored bags to the occupier on chargeable basis, if required.
- 29.The CBMWTF shall maintain common bio-medical waste treatment facility shall ensure collection of biomedical waste on holidays also.
- 30.The CBMWTF shall maintain all record for operation of incineration, hydroor autoclaving for a period of five years.
- 31.The CBMWTF shall provide adequate number of vehicles for collection of Biomedical waste from the HCFs duly labeling as per BMW Rules, 2016, fitted with GPS tracking system.
- 32.The CBMWTF shall adopt Barcoding system as per CPCB guidelines.
- 33.The CBMWTF shall maintain records consumption of auxiliary fuels used in incinerator.
- 34.The CBMWTF shall provide stack emission monitoring facilities as per the annexure- VI of CPCB guidelines.
- 35.The CBMWTF shall provide PLC based waste feeding mechanism to the incinerator.
- 36.The CBMWTF shall provide maintain necessary air pollution control equipment such as Quenching, Venturi scrubber, Droplet separator, Mist eliminator, Filters, Lime and Activated Carbon injection to meet the emission stands prescribed for the incinerator.
- 37.The CBMWTF shall provide continuous on-line monitoring system/Flue gas analyser attached with the incinerator for flue gas analysis (i.e CO, O₂ and CO₂).
- 38.The CBMWTF shall provide Emergency and Fire safety measures.
- 39.The CBMWTF shall maintain log book for the incinerator.
- 40.The facility shall comply the following operating standards pertaining to autoclave:

When operating gravity flow autoclave, bio- medical waste shall be subjected to:

- a. a temperature of not less than 121° C and pressure of 15 pounds per square inch (psi) for an autoclave residence time of not less than 60 minutes; or
- b. a temperature of not less than 135° C and a pressure of 31 psi for an autoclave residence time of not less than 45 minutes; or
- c. a temperature of not less than 149° C and a pressure of 52 psi for an autoclave residence time of not less than 30 minutes.

When operating a vacuum autoclave, medical waste shall be subjected to a minimum of three pre-vacuum pulse to purge the autoclave of all air. The air removed during the pre-vacuum, cycle should be decontaminated by means of HEPA and activated carbon filtration, steam treatment, or any other method to prevent release of pathogen. The waste shall be subjected to the following:

- a. a temperature of not less than 121°C and pressure of 15 psi per an autoclave residence time of not less than 45 minutes; or
 - b. a temperature of not less than 135°C and a pressure of 31 psi for an autoclave residence time of not less than 30 minutes;
- 22.Data-logging to the Auto-clave with print out arrangements for temperature, pressure etc has to be maintained.
- 23.The CBMWTF shall conduct Spore test or strip test regularly and shall maintain records.
- 24.The CBMWTF shall provide adequate sharp pit / Encapsulation facility.
- 25.The segregated rubber and plastic components, disposable syringes shall be disinfected before disposal.
- 26.The loading point of the disinfected recyclable waste shall be separated from the incoming material.
- 27.The proponent shall maintain a shredder to shred the disinfected plastics.
- 28.All activities like washing of vehicles, packing of shredded items, transferring or storage of any waste shall be done in the closed shed only.

BANDLA SIVA SANKARA PRASAD
CHAIRMAN

To
M/s. Vasishta Environ Care,
Plot No 27A25, Denotified Area AP SEZ,
Atchutapuram Rambilli (M),
Visakhapatnam District