Environment Audit Report 2024
M/s Ess kay Hygienic Services,
V & PO Bagwala, Tehsil Barwala, District Panchkula

Ess Kay Hygienic Services,

V&PO Bagwala, Tehsil Barwala,

Panchkula

Environment Audit Report (2024)

Conducted by:

Vishvas Laboratories & Consultants,

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Vishvas Laboratories & Consultants

GST No. 06AASFV4625J1ZN
PAN AASFV4625J

ViLaCo

CERTIFICATE NO. VILACOC02/2024

CERTIFICATE

PRESENTED TO

M/s ESS KAY HYGIENIC SERVICES

VPO Bagwala, Tehsil Barwala,

District Panchkula HARYANA

has been assessed by Vishvas Laboratories & Consultants

for the study of environmental impacts on CBWTF to fulfill the requirement

of

ENVIRONMENT AUDIT

The compliances on environment related issues were verified on the report submitted and was found satisfactory

Vishvas Laboratories & Consultants ViLaCo

(Raj Kumar)
Scientist (Retd.)
Partner

22.11.2024
DATE OF AUDIT

Off: 10-H, Tipra Railway Colony, Tipra, Kalka, Dist. Panchkula (Haryana) 133302.
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ACKNOWLEDGEMENT

Vishvas Laboratories & Consultants thanks Ess Kay Hygienic Services, V&PO Bagwala, Tehsil Barwala, Panchkula for assigning this important work of Environment Audit. We appreciate the cooperation extended to our team during the entire process.

Our special thanks to Mr. Dinesh Rana, Plant Manager for giving us necessary inputs to carry out this very vital exercise of Environment Audit and was actively involved while collecting the data and conducting field measurements.

We are also thankful to Mr. Sahil Nain, Partner and Mr. Ashwani Dogra who have trusted us for completion of the study of Environment Audit.

DISCLAIMER

Vishvas Laboratories & Consultants Audit Team has prepared this report for Ess Kay Hygienic Services based on input data submitted by the representatives of CBWTF.

While all sensible care has been taken in its preparation, details contained in this report have been compiled in good faith based on information gathered.

It is further informed that the conclusions are arrived following best estimates and no representation, warranty or undertaking, express or implied is made and no responsibility is accepted by Audit Team in this report or for any direct or consequential loss arising from any use of the information, statements or forecasts in the report.

If you wish to distribute copies of this report external to your organisation, then all pages must be included.

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(Raj Kumar)
Scientist (Retd.)
Partner

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INTRODUCTION

Nature is very precious gift for all life forms. Disturbance in the nature causes environmental Problems. These are increasing day by day as a result of development of urbanization and industrialization on earth. Because of unplanned utilization of resources, our planet is facing tremendous pressure results a sharp rise in temperature. Therefore, there is an urgent need to plan the consumption of the resources in sustainable manner in order to conserve natural resources for future generation.

Sustainable development is becoming popular in the world for saving the earth. Utilizing resources in judicially can save the earth's precious resources. Measurement of environmental components is the most effective step to conserve and protect natural resources.

In thin "Environment Audit" report would help everyone to think about preserving resources, show willingness to learn their importance, adopt steps to minimize resource use and set an example for others to follow the path of eco-friendly practices to achieve the goal of sustainable development. Effective implementation of environmental auditing helps in minimization of environmental risks at low cost.

An environment audit is a review of a company's environmental performance, including its compliance with environmental regulations and its potential impact on the environment. The goal of an environmental audit is to help a company improve its environmental practices and reduce its environmental risks.

At its core, an environmental audit evaluates a company’s environmental performance. Environmental audits can be done on specific procedures

and operational areas to assess their effectiveness and compliance with environmental rules and regulations.

Environmental audits are in place to ensure companies do what they can to preserve the environment. Additionally, these audits aim to control a company's environmental practices and ensure compliance with the different regulations that may apply to them.

Generally, an environmental audit aims to:

- identify which environmental management practices are working effectively;
- find different areas of improvement when it comes to environmental compliance; and
- assess any new and potential risks to the environment.

NEED OF AN ENVIRONMENTAL AUDIT

Environmental audits aim to accomplish numerous goals. From a broader point of view, these audits assess a company's environmental impact. It can show managerial teams what they can do to improve environmental sustainability, prove which environmental processes positively affect productivity and efficiency, and find pinpoint risks before they manifest themselves.

However, the main goal of environmental audits is to ensure compliance with environmental laws. Different territories and jurisdictions have their own environmental regulations, rules, and requirements that all companies need to follow. Failure to comply with these rules and regulations can result in severe consequences such as hefty fines and more, depending on the jurisdiction.

Environmental audits are crucial in standardizing these compliance measures across the organization. Through environmental audits, companies can understand where training is needed and whether they have the right control systems in place. They can also determine whether the company has adequate streams of communication in regard to environmental compliance.

GOALS OF ENVIRONMENT AUDIT

1. Identification and documentation of green practices followed by CBWTF.
2. Identify strength and weakness in green practices.
3. Conduct a survey to know the ground reality about green practices.
4. Analyze and suggest solution for problems identified from audit.
5. Assess facility of different types of waste management.
6. Increase environmental awareness in workers.
7. Identify and assess environmental risk.
8. Motivates staff for optimized sustainable use of available resources.
9. The long term goal of the environmental audit program is to collect baseline data of environmental parameters and resolve environmental issue before they become problem.

OBJECTIVES OF THE AUDIT

The main objective of the Environment audit is to promote the Environment Management and Conservation in the College CBWTF. The purpose of the audit is to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards. The main objectives of carrying out Environment Audit are:

- To examine the current practices which can impact on environment viz. resource utilization, waste management etc.
- To identify and analyze significant environmental issues.
- Setup goal, vision and mission for Green practices in CBWTF.
- Continuous assessment for betterment in performance in green practicesand its evaluation.

METHODLOGY

In order to perform Environment audit, the methodology includes different tools such as preparation of questionnaire, physical inspection of the CBWTF, observation and review of the documentation, interacting with key persons and data analysis, measurements and recommendations. The study covered the following areas to summarize the present status of environment management in the CBWTF:

- Water management
- Air Management
- Waste Management
- Noise Management
- Green Belt

Central Pollution Control board on its website at link https://cpcb.nic.in/uploads/Projects/Bio-Medical-Waste/Guideline_monitoring_CBWTFs.pdf has published guidelines w.r.t auditing of a CBWTF and has been taken as reference for preparation of Audit Report.

OVERVIEW OF CBWTF

Ess Kay Hygienic Services is located at Khewat No.1, Khatoni No.1, Kite.No.50, Tadadi No.314, Canal I17 Marle, Village VPO Bagwala, Tehsil Barwala, District Panchkula, Haryana.

No manufacturing process is involved in CBWTF and treats biomedical waste collected from health care facilities from the districts of Panchkula and Yamunanagar respectively.

CBWTF had been established in the year 2007 and operating after taking permissions from Haryana State Pollution Control Board under various Acts/Rules.

CBWTF has following infrastructure for treatment of biomedical waste:-

Incinerator	:	150 Kgs/hr
Autoclave	:	25 Kgs/hr
Shredder	:	25 Kgs/hr
ETP	:	4000 Ltrs/d
DG set	:	40 KVA

SITE VISIT

The site was visited on 22.11.2024 for carrying out Environmental Audit Report after checking the self audit report prepared by the representative of CBWTF and the details is given as under:

DATA SHEET

S No	Particulars	Details
	CBWTF Location	
1	Village	VPO Bagwala
	District	Panchkula
	State	Haryana
2	Coordinates	Latitude : 300 29' 15.60" N Longitude : 760 59' 53.68" E
3	Plant site elevation above MSL	308 m above MSL
4	Plant site topography	Plain
5	Present land use at the site	Agricultural Area
6	Nearest railway station	Dappar Railway station – 18.49 km towards WNW
7	Nearest airport	Chandigarh Airport – 28.47 km towards NW
8	Nearest village	Rasika village – 1.11 km in W direction
9	Archaeologically important places	There are no archeologically notified places in 10 km radius
10	Protected areas as per Wildlife Protection Act,1972 (Tiger reserve, Elephant reserve, Biospheres, National parks, Wildlife sanctuaries, community reserves and conservation reserves)	None
11	Reserved / Protected Forests	None
12	Water Bodies	Dangri River ~ 4.5 km. towards NW Dhanana River~ 3.9 km. towards SSW
13	Environmental Clearance (EC)	Granted by SEIAA vide letter no. SEIAA/HR/2019/465 dated 13.12.2019.
14	Consent to Operate under Water and Air Acts	Consent to operate for the period 01/10/2023 to 30/09/2026 had been obtained from HSPCB vide letter no. HSPCB/Consent/ 320220921PANCTO12905059 dated 05.07.2021.
15	Authorization under BMW Rules	Authorization for the period 01/10/2023 to 30/09/2026 had been obtained from HSPCB vide letter No. HSPCB/BMW/2023-2024 dated 25/07/2023.
16	Authorization under HWM Rules	Authorization for the period 30/12/2021 to 30/09/2026 had been obtained from HSPCB vide letter no. HWM/PAN/2021/18416676 dated 30/12/2021.

The compliance report of Guidelines for Monitoring Compliance of Common Biomedical Waste Treatment Facilities issued by CPCB as per record/information provided by CBWTF is given at **Annexure-I to IV**. Based on site verification, the suggestions are given and CBWTF needs to act accordingly.

SUGGESTIONS:

1. Color coding of wastes may be displayed on the room for storage of untreated and treated waste.
2. Regular filling of fire extinguisher cylinders may be ensured as refilling date expired in August, 2024.
3. Ensure filling of sand buckets with sand regularly.
4. Ensure regular maintenance of logbooks of ETP.
5. Ensure wearing of safety equipments by workers regularly.
6. Ensure working of solar lights and may be replaced immediately when out of order.
7. Trees of 6 to 7 ft may be provided inside or outside boundary wall of CBWTF to make buffer green to control pollution.
8. Ensure display of data on the website of CBWTF.
9. Ensure timely change of activated carbon.

CONCLUSION:

This audit involved interactions with all the operators, working on various machines related to treatment of biomedical waste, ETP, APCM, vehicles etc. which are directly connected to the environmental aspects. The audit has identified some observations for making the CBWTF premise more environment friendly. The suggestions are mentioned for CBWTF to initiate actions.

27.11.2024

(Raj Kumar)
Scientist (retd.)
Partner

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DATA SHEET

S No	Particulars	Details
1	**CBWTF Location**	
	Village	VPO Bagwala
	District	Panchkula
	State	Haryana
2	Coordinates	Latitude : 300 29' 15.60" N Longitude : 760 59' 53.68" E
3	Plant site elevation above MSL	308 m above MSL
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5	Present land use at the site	Agricultural Area
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7	Nearest airport	Chandigarh Airport – 28.47 km towards NW
8	Nearest village	Rasika village – 1.11 km in W direction
9	Archaeologically important places	There are no archeologically notified places in 10 km radius
10	Protected areas as per Wildlife Protection Act,1972 (Tiger reserve, Elephant reserve, Biospheres, National parks, Wildlife sanctuaries, community reserves and conservation reserves)	None
11	Reserved / Protected Forests	None
12	Water Bodies	Dangri River ~ 4.5 km. towards NW Dhanana River~ 3.9 km. towards SSW
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Water Management

S.No.	Particulars	Details
1	Source of Water.	Through Tankers from outside
2	Sources of water pollution.	Effluent from floor washing, vehicles washing, venturi scrubber and domestic effluent.
3	Quantity Required m3/d	02
4	BOD value of ETP shall be maintained below 10 ppm	Maintaining BOD level below 10 ppm after operating ETP.
5	Mode of disposal	Trade effluent is being re-circulated/reused in process. Domestic effluent is being disposed off through septic tank/soak pit.
6	Requirement of Sewage Treatment Plant to treat the wastewater generated from the project.	There is no requirement of installation of Sewage Treatment Plant as effluent discharge is less than 10 KLD and facility had already provided septic tank/soak pit.

Air Management

S.No.	Particulars	Details
1	Sources of Air pollution.	Stack attached to Incinerator and DG set.
2	Status of installation of emission monitoring system including Dioxin and furans to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time, according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied. Further, Online Emission Monitoring System is connected to CPCB and HSPCB server. Calibration is being done on annual basis from vendor.
3	Periodical air quality monitoring in and around the site including VOC, HC be carried out.	Ambient Air Quality monitoring got carried out by laboratory of Haryana Test House Panipat on 21/03/2024.
4	Venturi scrubber (alkaline) should be provided with incinerator with stack of adequate height (Minimum 30 meters) to control	Complied. The Analysis analyzed by Laboratory of Haryana State Pollution Control Board, Panchkula bearing No. 1320 dated 19/02/2024 shows

	particulate emission within 50mg/nm3.	particulate emission of 30.2 mg/nm^3 against limits of 50mg/nm^3
5	Appropriate Air Pollution Control (APC) system shall be provided for fugitive dust from all vulnerable sources, so as to comply prescribed standards. All necessary air pollution control devices (quenching Venturi scrubber, mist eliminator) should be provided for compliance of emission standards.	The facility has provided Dust Collector, Venturi Scrubber and Mist Eliminator alongwith adequate stack height of 30 meter as air pollution control devices for compliance of emission standards.

Energy Conservation

S.No.	Particulars	Details
1	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly; i. Provide LED lights in their officers	The solar lights for common areas have been installed. The LED lights have been provided in the office and in the facility wherever required.

Waste Management

Bio Medical Waste

S.No.	Particulars	Details
1	Segregation of Bio Medical Waste	The segregation of bio medical waste is being done at source by the health care facilities and is being collected in the designated coloured bins. An awareness program was held on 14/03/2024 in the facility regarding segregation of bio medical waste.
2	Transportation and handling of Bio- medical Wastes shall be as per the Biomedical Wastes (Management and Handling) Rules, 2016 including the section 129 to 137 of Central Motor Vehicle Rules 1989.	The transportation of bio medical waste is being done in the closed vehicles.

3	Filing of Annual Report	Being submitted online to HSPCB.
4	Mode of disposal	Incineration within the premises

Hazardous Waste Management

S.No.	Particulars	Details
1	Storage of Hazardous Waste	Inside the premises as per provisions in HOWM Rules.
2	Filing of Annual Report	Being submitted to HSPCB.
3	Mode of disposal	GEPIL Palli, Faridabad

Solid Waste Management - Major portion of the solid waste is incineration ash and is disposed off to TSDF at Palli, Faridabad.

C & D Waste Management: Nil

E waste Management: Nil

Odour Management

S.No.	Particulars	Details
1	The PP shall take all measures to control the smell coming out of the project.	Following mitigation measures are being adopted at site to control odour. • Waste collecting vehicles, containers and store rooms are washed on daily basis. • The biomedical waste is treated within 48 hours. • Closed cabin vehicles are used for the collection and transportation of biomedical wastes. • Masks are provided to workers to avoid health issues due to odour. • Adequate green belt/plantation has been developed to control odour. • Good housekeeping practices are being & will be followed. • Dilution of odourant by odour counters action or neutralize by spraying Ecosorb (organic and biodegradable chemical) around odour generation areas at regular intervals.

Greenery

Adequate plantation has been done in the CBWTF.

Other details

- Implemented the bar coding system as per the approved MoU dated 23.05.2019 in compliance with BMW rules 2016.
- Provision has been made for control of fire by providing bucket filled with sand and fire extinguisher in the facility.
- Environmental statement has been submitted to HSPCB on 27/09/2024 through email.

The compliance report of Guidelines for Monitoring Compliance of Common Biomedical Waste Treatment Facilities issued by CPCB is given at **Annexure-I to IV.**

Date: 19.11.2024

For Ess Kay Hygienic Services

Auth. Signatory

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Annexure I

Part A: Format for Operational Compliance Verification

S. No	Operational Activity	Requirement	Status- Tick √orX	Remarks/ActionTaken
1	BMW Collection			
	a.	Waste generated is collected And disposed within 48 hours.	√	Waste is being collected and is being disposed on daily basis.
	b.	Separate compartments for color coded wastes	√	Separate compartments for storage of color coded wastes have been provided in the vehicles deputed for collection of biomedical waste.
2	Use of PPEs	Waste collectors are required to wear adequate PPEs –including three layer masks, splash proofaprons/gowns, gloves, gumboots and safety goggles. Does workers wearing adequate PPEs?	√	Provided gloves, gumboots, safety goggles, three layer mask and gown to waste collectors and sanitize the vehicles on daily basis.
3	Transportation			
	a.	Whether dedicated Vehicle used for collection of COVID19 waste?	√	We have 1 vehicle for collection of COVID 19 waste.
	b.	Registration of vehicles with SPCBs	√	The information of vehicles used for collection of biomedical waste has been submitted to HSPCB Panchkula.
	c.	Use of separate dedicated Vehicle for COVID19 waste	√	We have 1 vehicle for collection of COVID 19 waste.
4.	Tracking of BMW			
	a.	Installation of GPS based Devices in vehicles	√	GPS has been installed in all 08 vehicles
	b.	GPS based tracking access to SPCBs/PCCs to monitor location or route of vehicles	√	GPS installed for tracking the vehicles used for collection of biomedical waste.
	c.	Use of COVID19 Tracking App at Collection point	√	Application installed and will be used as per requirement.
5.	Handling at CBWTFs			
	a.	Separate spaces provided for reception of color coded wastes	√	We have separate compartment for reception of color coded wastes of size 5x15x4 feet each.
	b.	Space adequate for reception of waste	√	Adequate space has been provided.
	c.	Space adequate for storage of Treated waste	√	For treated waste, separate room provided of size of 25*25 feet.

6.	Compliance to Standards			
S. No	**Operational Activity**	**Requirement**	**Status-Tick √orX**	**Remarks/ActionTaken**
	a.	Compliance to emission Standards-sample collected by SPCB or its agency	√	Sample of air emission has been collected by HSPCB Panchkula and analysis report No. 379 dated 30/08/2024 issued by Laboratory of Haryana State Pollution Control Board, Panchkula shows particulate emission of 26.9 mg/nm3 against limits of 50mg/nm3.
	b.	Compliance to emission standards-as per NABL/EPA accredited laboratory	√	Sample of air emission has been collected by HSPCB Panchkula and analysis report No. 379 dated 30/08/2024 issued by Laboratory of Haryana State Pollution Control Board, Panchkula shows particulate emission of 26.9 mg/nm3 against limits of 50mg/nm3.
	c.	Compliance to emission Standards-sample collected by SPCB or its agency	√	Sample of air emission has been collected by HSPCB Panchkula and analysis report No.379 dated 30/08/2024 issued by Laboratory of Haryana State Pollution Control Board, Panchkula shows particulate emission of 26.9 mg/nm3 against limits of 50mg/nm3.
	d.	Compliance to emission standards-as per NABL/EPA accredited laboratory	√	Sample of air emission has been collected by HSPCB Panchkula and analysis report No.379 dated 30/08/2024 issued by Laboratory of Haryana State Pollution Control Board, Panchkula shows particulate emission of 26.9 mg/nm3 against limits of 50mg/nm3.
	e.	Compliance to Temperature standards	√	Complied.
	f.	Compliance to disinfection standards (Autoclave/Microwave)	√	Complied.

Annexure II

Part B: Format to Assess Adequacy of Infrastructure

S.No.	Infrastructure	Requirement	Status – Tick √ or X	Remarks/actionTaken
1	Vehicles			
	a.	Whether the unit has adequate fleet to lift BMW daily from bedded HCFs	√	We have 08 vehicles for collection of biomedical waste from health care facilities.
	b.	Dedicated Vehicle provided for COVID19 waste	√	Provided vehicle for collection of COVID 19 waste.
2	Area available for CBWTF operations			
	a.	Area of operations is more than 0.5 acres?	√	1 acre
3	Upgradation of Combustion Chamber			
	a.	Secondary Combustion chamber upgraded to 2 sec Retention Time..?	√	Complied.
4.	APCDs upgradation			
	a.	Whether APCDs upgraded to meet revised standards for PM?	√	Adequate APCDs have been provided to meet revised standards.
	b.	Control systems for Dioxins and Furans Installed?	√	
6.	Waste Reception			
	a.	Separate spaces provided for receipt of untreated color coded BMW.	√	Separate room constructed 25x 25 feet. Separate chamber provided for each category
	b.	Containers used to receive BMW prior to charging in to incinerator.	√	Provided closed trolley from waste room to incinerator.
7.	Facilities for treated Waste Handling			
	a.	Covered sheds provided for (i) all treatment/disposal equipment, (ii) handling treated/un-treated wastes, (iii)Ash storage, etc.	√	Shed of cement tin and roof provided on all equipments of treatment

AnnexureIII

Part C: Format to verify data submission by CBWTFs

S.No	Records	Requirement	Status - Tick √orX	Remarks/ActionTaken
1	Daily COVID19 data upload			
		Usage of COVID19 BWM Tracking App to report COVID19 waste collection and disposal	√	Application installed.
2	Barcode based Tracking data			
		Implemented Bar code Labelling and tracking System as per BMWM Rules, 2016 – Provided Login and data access to SPOCBs/PCCs	√	Bar code software and application installed for scanning and tracking of bio-medical waste.
3	Logbook on maintenance			
		Logbook maintained and shown to SPCBs/PCCs, as when asked for.	√	Log book is being maintained.
4	Web-site information			
		Displays details of authorization, treatment, annual report etc. on web-site.	√	Complied
5	Annual Report Submission			
		Whether submitted for previous year?	√	Submitted
6	Reporting ofincidents	Incidental reporting of fires, accidents during handling, spillages	√	No incident occurred.

Annexure IV

PartA–GeneralInformation

S.No.	Details		Particulars
1.	Name of CBWTF with contact details	:	ESS KAY HYGIENIC SERVICES V.P.O. Bagwala , Teh. Warwala, Distt. Panchkula
2.	Month/ year of establishment and the Consents status	:	Establishment Month/Year: September, 2007
3.	CBWTF operated by	:	ESS KAY HYGIENIC SERVICES
4.	Contact Details		Contact Person: Mr. Dinesh Singh Rana E-Mail: esskay2012@yahoo.in Telephone: 8588886966 Mobile phone: 7009271586
5.	Consent under Water (Prevention and Control of Pollution) Act, 1974	:	Consent is valid upto 30.09.2026 and issued by HSPCB Panchkula vide letter dated 11/6/2021.
6.	Consent under Air (Prevention and Control of Pollution) Act,1981	:	Consent is valid upto 30.09.2026 and issued by HSPCB Panchkula vide letter dated 11/06/2021.
7.	Environmental Clearance (EC)		EC has been issued by SEIAA, Haryana vide letter dated 13.12.2019.
8.	Authorization Status	:	Authorisation under HWM Rules is valid up to 30.09.2026 issued by HSPCB Panchkula vide letter dated 30.12.2021. Authorisation under BMW Rules is valid up to 30.09.2026 issued by HSPCB Panchkula vide letter dated 25.07.2023.
9.	Area or plot size of CBWTF (in Sq. ft.)	:	43460 SQ. feet
10.	Name of Districts/Cities/ Places being covered	:	PANCHKULA AND YAMUNA NAGAR
11.	Cost charged to the Health care facilities	:	As per Govt. of Haryana orders
12.	Separate space for treatment equipment room	:	Yes
13.	Separate space for treated And untreated waste	:	Yes. separate rooms are provided for treated and untreated waste sizeof both rooms are 25*25 feet

Part-B: Operational Information

S.No.	Details		Particulars	
1.	Total number of healthcare facilities and beds covered (as on date of visit)	:	Total no. of HCFs :854 Bedded HCFs :240 Non-bedded HCFs :614 No.of Beds :4878 No. of beds upto 75 KM radius : No. of beds more than75KM radius, if any:	
2.	Total Bio-medical Waste Treatment Capacity of CBWTF (in kg /day)	:	Incineration : 3600 (in kg/day) Autoclave :600 (in kg/day) Any other treatment and disposal: 5000 KG (SHREDDER) Total: ETP Capacity 4KLD	
3.	Daily operation schedule (timings)	:	Collection : 9 Am to 6 pm. Treatment through incinerator (8hrs) Treatment through autoclave (12 hrs)	
4.	**Average quantity of bio-medical waste Collected As per records (if required, one moth data may be checked)**		Non-COVIDwaste Month of Oct-2024	COVIDwaste
	Yellow	:	1168.1 Kg/day	……0…….Kg/day
	Red	:	747.3 Kg/day	……0..Kg/day
	white	:	19.1 Kg/day	…0……..Kg/day
	Blue	:	767.95 Kg/day	……0…..Kg/day
5.	**Average quantity of bio-medical waste treated As per records (if required, one moth data may be checked)**		Non-COVID waste Month of Oct-2024	COVID waste
	Yellow	:	1168.1 Kg/day	……0…….Kg/day
	Red	:	747.3 Kg/day	……0…..Kg/day
	white	:	19.1Kg/day	……0…..Kg/day
	Blue	:	767.95Kg/day	……0…..Kg/day
6.	**Information related to Incinerator**		Upgraded to 2 second residence time √□Yes □No Temperature in Primary Chamber:850 - 1000 degree Temperature in Secondary Chamber : 1050-1250 degree OCEMS installed : √□Yes □No OCEMS connected with CPCB/SPCB server: √□Yes Also, daily record of operational parameters may be checked through OCEMS server for: √ Temperature in combustion chambers: Complied. Efficiency of incinerator: √	

7.	**Type of APCDs attached with incinerator**		Unit operations [pl. tick all applicable boxes] √□ High rate Ventury scrubber; □ spray scrubber; □√ packed bed tower; √□ flue gas cooling system; √□ dry chemical injection (for activated carbon/lime/other chemicals) prior to bag filers; □ √carbon slurry scrubber; √□ bag filers; √□ waste heat recovery system; □ceramic scrubbers; □cooling tower; □dry-adsorption reactor prior to bag filter; If any other units please specify: M I S T E L M I N A T E R
8.	**Information related to red category waste**		Treated in Autoclave
			Temperature: 121 Degree Cel. Pressure:15 PSI Time: 09. Am to 6 pm
9.	**Information related white category Waste**	:	Sharp Pit provided :√□Yes □No Is it as per CPCB guideline:√□Yes □ No Records maintained :√□Yes □ No Total quantity of waste sharps stored (in Kg): 500 KG P.M Total quantity of waste sharps treated and disposed (in Kg):500 KG P.M
10.	**Information relatedblue category Waste**		Modeoftreatment:□√Autoclaving □ Microwaving □ Hydro claving □ √By Chemical Disinfection (sodium hypochlorite) After Sterilization, facility for rinsing and washing of glass containers √□Yes □ No Detergent waste: □√Yes □No Residual chemicals collected: □√Yes □No □NA
11.	**Waste water management**		ETP capacity: 4KLD Quantum of waste water treated: 1.5. KLD Final mode of disposal of treated water: Recycling Recirculation and Reuse in scrubber, washing of vehicles/floors.
12.	Frequency of incinerator/autoclave/microwave/hydro clave/ETP discharge effluent testing and name of the laboratory (specify Approved or not).	:	Quarterly

<table>
<tr><td>13.</td><td>MonitoringResults:</td><td></td><td></td></tr>
<tr><td>14.</td><td>Incinerator stacks emission (parameters stipulated in the Rules, temperature attainment in the chambers, residence time in the secondary chamber retc.)</td><td>:</td><td>Complied</td></tr>
<tr><td>15.</td><td>Incineration ash characteristics</td><td>:</td><td>Is it hazardous waste as per HWM Rules:
□√Yes □ No</td></tr>
<tr><td>16.</td><td>ETP inlet/outlet characteristics</td><td>:</td><td>Complied.
<table>
<tr><th>Parameter</th><th>pH</th><th>TSS</th><th>COD</th><th>BOD</th><th>O&G</th></tr>
<tr><td>ETP Outlet Analysis Result</td><td>6.65</td><td>14.0</td><td>40.0</td><td>7.6</td><td>2</td></tr>
</table></td></tr>
<tr><td>17.</td><td>No. of Vehicles used for collection of waste from Member HCFs</td><td>:</td><td>Number of vehicles used for non-COVID waste collection: 8
Number of vehicles used for COVID-19 waste collection: 0</td></tr>
<tr><td>18.</td><td>Whether Bar code system is Adopted or not?</td><td></td><td>□√Yes □No</td></tr>
</table>

PartC– COVID-19 waste related Information

16.1	Member HCFs for COVID-19 generation	:	…0..IsolationCenters …0…HCFs …0..quarantinecamps/homes …0…samplecollectioncenter …0..laboratories
16.2	Quantity of COVID waste collection per day and COVID waste treatment per day.		Collection: ….0.per day Disposal:…0.per day (Record of COVID waste collected and treated since March, 2020) maintained
16.3	Whether COVID wastecollected is treated onsameday?		□√Yes □No
16.4	Whether COVID and non-COVID waste has beenstoredseparately?		□√Yes □No

16.5	Member HCFs registered in COVID19 BWM App.	:	0.IsolationCenters 0…HCFs 0…quarantinecamps/homes 0…samplecollectioncenter 0..laboratories
16.6	Whether CBWTF have Registered on COVID19 BWM App developed by CPCB and register all the vehicles dedicated for COVID waste generation?		√□Yes □ No If yes…01..number of vehicles dedicated for COVID waste generation (record of usage of App for last one week)
16.7	Whether sanitization of vehicles dedicated for COVID waste collection has been done daily?		□√Yes □ No Chemical used hypo chloride solutions
16.8	Is PPEs used by workers involved in handling and collection of bio medical waste is adequate?		□√Yes □No