

Solid waste management

Liquid waste management

Biomedical waste management

E-waste management

Hazardous chemicals and radioactive waste
management

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
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Kalpataru Point, 2nd and
4th floor, Opp. Cine Planet
Cinema, Near Sion Circle,
Sion (E), Mumbai-400022

RED/L.S.I

No:- Format1.0/CAC/UAN No.0000115356/CR - 2112001494

Date: 27/12/2021

To,
Mahatma Gandhi Mission Medical College Hospital,
Sec-1, Plot no. 1 & 2, Kamothe,
Panvel, Dist:Raigad.



Your Service is Our Duty

Sub: Renewal of Combined Consent and BMW Authorization under Red category

- Ref:**
1. Combine Consent and Bio-Medical Authorization granted by the Board vide no.BO/UAN No.17576/CAC-1907000816 Dated 22.07.2019 valid up to 30.06.2021
 2. Amendment in consent granted by the Board vide no. BO/UAN No.17576/CAC-1907000816/Amend-0892 Dated 26.09.2019
 3. Your application for Combine Consent and Bio-Medical Authorization dated 08.06.2021
 4. The minutes of Consent Appraisal Committee meeting dated 13.10.2021 & 29.10.2021

Combined Consent to Renewal and BMW Authorization.

For: Under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 and Bio-Medical Waste Management Rules, 2016 and amendment thereof is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. **The Combined Consent to Renewal and BMW authorization is granted upto: 30.06.2026**

2. **The capital investment of the project is Rs.62.5133 Crs. (As per C.A Certificate submitted by industry Existing-Rs.59.17 Crs + Increase in C.I. - Rs. 3.35 Crs).**
3. **The Consent is valid for the Activity of**

Sr No	Activity	Quantity	UOM
1)	Hospital		
a)	Beds	810	Nos
b)	Total Plot Area	80000.00	Sq.Mtrs
c)	Total Built up Area	32932.00	Sq.Mtrs



4. Conditions under Water (P&CP) Act, 1974 for discharge of effluent:

Sr No	Description	Permitted (in CMD)	Standards to Achieve	Disposal
1.	Trade effluent	5	As per Schedule -I	Treated effluent shall be recycled up to maximum extent and remaining shall be used on land for gardening / disposed in to sewerage system provided by Local body.
2.	Domestic effluent	400	As per Schedule - I	As above

5. Conditions under the Air (P & CP) Act, 1981 for air emissions:

Sr.No	Description of stack / source	Number of Stack	Standards to be achieved
1	DG Set [500 KVA X 3 Nos]	3	As per Schedule -II

6. Conditions under Hazardous & Other Wastes (M & T M) Rules 2008 for treatment and disposal of hazardous waste:

Sr No	Type of Waste	HW Category.	Quantity	UoM	Treatment	Disposal
1		NA	0	--NA--	NA	NA

7. Conditions about Non Hazardous Wastes:

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Wet Garbage	50	Kg/Day	composting	Used as a manure
2	Dry Garbage	360	Kg/Day	Sale/ Composting	Reuse / Used as a manure
3	STP Sludge	25	Kg/Day	Compost	Used as a manure

8. Treatment and Disposal of Biomedical Waste generated to CBMWTSDF:

Sr.No	Category	Type of Waste	Quantity not to exceed (Kg/M)	Segregation Color coding	Treatment & Disposal
1	Yellow	a) Human Anatomical waste	200.00	Yellow colored non- chlorinated plastic bags	CBMWTSDF
		b) Animal Anatomical Waste	250.00		
		c) Soiled Waste	600.00		
		d) Expired or Discarded Medicines	15.00		
		e) Chemical Waste	200.00		
		f) Chemical Liquid Waste	50.00		
		g) Discarded linen, mattresses, beddings contaminated with blood or body fluid.	800.00		
		h) Microbiology Biotechnology and other clinical laboratory waste	300.00		
2	Red	Contaminated waste (Recyclable)	2183.00	Red colored non chlorinated plastic bags or containers	CBMWTSDF



Sr.No	Category	Type of Waste	Quantity not to exceed (Kg/M)	Segregation Color coding	Treatment & Disposal
3	White (Translucent)	Waste sharps including Metals	135.00	Puncture proof, Leak proof, tamper proof container	CBMWTSDF
4	Blue	a) Glassware	330.00	Puncture proof & leak proof boxes or containers with blue colored marking.	CBMWTSDF
		b) Metallic body implants	50.00		

9. PP shall comply the following guidelines published by the CPCB on February-2019 regarding handling of BMW for utilization

1. HCE shall preferably handover Bio-medical wastes such as pleural fluid, ascetic fluid, HBsAG positive blood, placenta etc. to the Pharmaceutical industry / Biotechnology firms for production of drugs, reagent chemicals, markers etc. if any such as Pharmaceutical industry / Biotechnology firm approaches them for the same. If there are any difficulties in the matter, the same may be communicated to such firm and copied to the board also.
2. HCE shall strictly follow the procedure for packaging & transportation of Bio-medical Wastes such as pleural fluid, ascetic fluid, HBsAG positive blood, placenta etc. to the Pharmaceutical industry / Biotechnology firms as per the guidelines of CPCB published in Feb-2019 for "Handling of BMW for utilization".
3. HCEs shall submit the report to the Board office about type, quantity and frequency of handling over such BMW on yearly basis.
4. Industry to enter into legal agreement with HCE's and inform the MPC Board and competent authority of State Public Health Department about such collection of BMW along with quantity and type of waste collected.
5. In case of any technical difficulty towards handing over the required BMW, you shall inform to the Board accordingly.
6. HCEs shall properly dispose and handover the waste to authorised user / facilities having valid consent to operate from MPCB.

10. This consent is issued subject to conditions mentioned below:

- a. The "authorized Person" shall comply with provisions of the Environment (Protection) Act, 1986, and the Rules made there under.
- b. Any unauthorized change in equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this Authorization.
- c. You shall submit details of Management and Handling of outdated, discarded, unused Cytotoxic drugs generated in the Cancer centers, research and health care in the format prescribed by CPCB which is available on www.cpcb.nic.in alongwith Annual Report to MPCB with a copy to CPCB before 31st January every year.
- d. You shall manage the Mercury Waste in the HCE in environmentally sound manner (including storage, spilled collection, transportation and disposal) as per CPCB guidelines published on CPCB website www.cpcb.nic.in dated: 07.09.2010 as detailed in document entitled "Environmentally Sound Management of Mercury Waste in Health Care Facilities"?



- e. You shall ensure phase out of chlorinated plastic bags, gloves and blood bags by HCEs within two years.
 - f. You shall establish Bar code system within one year.
 - g. You shall ensure that the liquid waste is treated and disposed by all the occupier or operator of a CBWTF in accordance with the Water Act, 1974;
 - h. You shall maintain day to day basis and display the monthly record Including Annual report on its website within two years from the date of Notification.
 - i. You shall submit separate Bank Guarantees towards compliance of condition mentioned at Annexure - IV to Regional Office, within 30 days.
 - j. You shall submit compliance of Bank Guarantee conditions every six months to Regional Officer, for verification purpose.
 - k. You shall submit application for renewal of Combined Consent and Biomedical Waste authorization before 120 days along with appropriate fees.
11. This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
 12. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.
 13. PP shall install primary Effluent Treatment Plant (ETP) within 6 months.
 14. PP shall submit/extend existing BGs as per BG regime for Healthcare establishment.
 15. PP shall comply with CPCB guidelines for handling, Treatment and disposal of waste generated during treatment, diagnosis/ quarantine of COVID-19 Patient

For and on behalf of the
Maharashtra Pollution Control
Board.



Ashok Shingare
(Ashok Shingare IAS),
Member Secretary

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	500000.00	MPCB-DR-6263	08/06/2021	RTGS
2	15000.00	TXN2112001603	15/12/2021	Online Payment
3	75000.00	MPCB-DR-6266	10/06/2021	NEFT

Copy to:

1. Regional Officer, MPCB, Raigad and Sub-Regional Officer, MPCB, Raigad I
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Sion, Mumbai

SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1. A] As per your application, you have proposed primary ETP of 5.0 CMD capacity
- B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent:

Sr.No	Parameters	Standards
	I. Compulsory Parameters	Limiting Concentration in mg/l, except for pH
(1)	pH	5.5 to 8.5
(2)	Oil & Grease	10 mg/l
(3)	BOD (3 days 27°C)	30 mg/l
(4)	Total Suspended Solids	100
(5)	COD	250 mg/l

C] The treated sewage shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise and remaining shall be disposed in sewerage system provided by local body. In no case, sewage shall find its way outside hospital premises.

2. A] As per your application, you have provided Sewage Treatment Plant of designed capacity 400 CMD for the treatment of 400 CMD of sewage.
- B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards.

1	BOD	Not to exceed	30
2	COD	Not to exceed	100
3	Suspended Solids	Not to exceed	50

C] The treated sewage shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise and remaining shall be disposed in sewerage system provided by local body. In no case, sewage shall find its way outside hospital premises.

3. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification there of & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
4. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.



5. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	0.00
2.	Domestic purpose	500.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	5.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	0

6. The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/ CREP guidelines.

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and erected following stack (s) to observe the following fuel pattern:

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S% SO ₂
S-1, S-2 & S-3	DG Set [500 KVA X 3 Nos]	Acoustic encloser and Stack	8 Each	HSD	108 Ltr/Hr	1.00 51.84

2. The applicant shall provide stack height of mtrs operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Total Particulate matter	Not to exceed	150 mg/Nm ³
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3. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
4. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
5. Conditions for D.G. Set
- a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.



- b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
- c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
- d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
- f) D.G. Set shall be operated only in case of power failure.
- g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
- h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.

SCHEDULE-III

Details of Bank Guarantees:

Sr. No.	Consent(C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
NA						

** The above Bank Guarantee(s) shall be submitted by the applicant in favour of Regional Officer at the respective Regional Office within 15 days of the date of issue of Consent.
Existing BG obtained for above purpose if any may be extended for period of validity as above.

Statement of conditions to be complied and Bank Guarantee imposed to ensure timely compliance to be observed by:

Sr.No	Activity / Condition to be Complied	Compliance Timeline(Months)	Bank Guarantee Amount
1A	Operation and Maintenance		
1	To Segregate and Handle BMW as per Rule	Continuous	100000
2	Towards Operation and Maintenance of STP/ETP to achieve prescribed discharge standards	Continuous	100000
1B	Records		
1	To Maintain records of BMW and submission of Annual Report in Form -II before 31st January	Continuous	50000
2	To maintain records of BMW material delivered to CBMWTSDF	Continuous	25000



Sr.No	Activity / Condition to be Complied	Compliance Timeline(Months)	Bank Guarantee Amount
2	Performance		
1	To provide BMW separate storage facility as per guidelines of CPCB	Continuous	75000

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG imposed	Purpose of BG	Amount of BG Returned
NA				

SCHEDULE-IV

General Conditions:

1. You shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
2. You should monitor effluent quality, stack emissions, noise and ambient air quality quarterly
3. You shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
4. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
5. You shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
6. You shall submit, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992 to Regional Office, , the 30th day of September every year.



7. You shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW (MH&TM) Rules 2008, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
8. You shall comply with the Hazardous Waste (M, H & TM) Rules, 2008 and submit the Annual Returns to RO- as per Rule 5(6) & 22(2) of Hazardous Waste (M, H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
9. An inspection book shall be opened and made available to the Board's officers during their visit to the HCE.
10. You shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
11. You shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent & authorization condition towards Environment Protection.
12. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
13. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the HCE.
14. You shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
15. You should not cause any nuisance in surrounding area.
16. You shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
17. You shall maintain good housekeeping.
18. You shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement to Regional Office by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
19. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
20. You shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. You will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
21. You shall submit Six Monthly statement in respect of obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).



22. You shall submit official e-mail address and any change will be duly informed to the MPCB, forthwith.
23. You shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended
24. You shall observe provisions of E-waste (Management and Handling) Rules 2011 and Battery Waste (Management and Handling) Rules 2001, as amended.

For and on behalf of the
Maharashtra Pollution Control
Board.



Ashok Shingare
(Ashok Shingare IAS),
Member Secretary

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010437/24020781/24014701

Fax: 24024068 /24023515

Website: <http://mpcb.gov.in>

E-mail : cac-cell@mpcb.gov.in



Kalpataru Point, 2nd - 4th Floor,

Opp. Cine Planet Cinema,

Near Sion Circle, Sion (E)

Mumbai - 400 022

Red/LSI

Consent No: Format 1.0/BO/UAN No.62150 /CAC - 1906001274

Date: 25/6/2019.

To,

M/s MGM's Medical College and Hospital,

N-6, CIDCO Aurangabad-432003.

Sub : Combined Consent to operate and BMW Authorization under RED Category to Health Care Establishment (HCE's).

Ref : 1. Consent granted by the Board vide no. BO/CAC-Cell/CCA-9767 Dated 12.08.2016 valid up to 31.12.2018.

2. Your application for combine consent to operate and BMW Authorization dated 07.12.2018.

3. The minutes of Consent Appraisal Committee meeting dated 02.05.2019.

Combined Consent to Establish and BMW Authorization.

under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2016 and Biomedical Waste Management Rules 2016 and amendment in Rules 2018 is considered and the consent is hereby granted subject to following terms and conditions and as detailed in the schedule I, II, III, IV & V annexed to this order:

1. The conditional combined consent to operate and BMW authorization is granted for period up to 31.12.2023.

2. The capital investment of the HCE is Rs.154.96 Crs. (As per C. A. Certificate submitted)

3. The Consent is valid for the Activity of -

Sr. No.	Activity	
1	Hospital	
a)	Beds	700 Nos.
b)	Total Plot Area	20,000 Sq. Mtrs
c)	Total Built up Area	16,787 Sq. Mtrs

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1	Trade effluent	22.0	As per Schedule -I	The treated trade effluent shall be recycled for secondary purpose such as toilet flushing, air conditioning, cooling tower make up, firefighting etc. and remaining shall be used for gardening /connected to the sewerage system provided by local body.
2	Domestic effluent	540.0	As per Schedule -I	

5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1	D.G.Set [600 KVA]	1	As per Schedule-II
2	D.G.Set [600 KVA]	1	
3	D.G.Set [750 KVA]	1	

6. Conditions under Hazardous Wastes (Management, Handling Transboundary and Other Waste) Rule 2016 for treatment and disposal of Hazardous Waste:

Sr. No.	Type of Waste	Quantity	UOM	Treatment	Disposal
1	35.3 Chemical sludge from ETP	As actual	Nil	--	At CHWTSDF

7. Non-Hazardous Solid Wastes:

Sr. No.	Type of Waste	Quantity	UOM	Treatment	Disposal
1	Wet Garbage	As actual	Kg/Day	OWC	Manure
2	Dry Garbage	As actual	Kg/Day	---	Recycle or hand over to local body
3	STP Sludge	As actual	Kg/Day	---	Manure

8. The authorization is granted for generation and disposal of Bio-Medical Waste (BMW) to CBMWTSDF in waste categories and quantities listed here in below:

Sr. No.	Category	Type of Waste	Quantity not to exceed (Kg/M)	Segregation Color coding	Treatment & Disposal
1	Yellow	a) Human Anatomical waste	90.0	Yellow colored non-chlorinated plastic bags	No onsite treatment of BMW is permitted. The above-mentioned Bio medical Waste shall be sent to Common BMW Treatment & Disposal facility authorized by MPCB.
		b) Animal Anatomical Waste	---		
		c) Soiled Waste	250.0		
		d) Expired or Discarded Medicines	2.0		
		e) Chemical Waste	---		
		f) Chemical Liquid Waste	---	Separate collection system leading to effluent treatment system	
		g) Discarded linen, mattresses, beddings contaminated with blood or body fluid.	9.0	Yellow colored non-chlorinated plastic bags or suitable packing material	
		h) Microbiology Biotechnology and other clinical laboratory waste	5.0	Autoclave safe plastic bags or containers	

2	Red	Contaminated waste (Recyclable)	300	Red colored non chlorinated plastic bags or containers	No onsite treatment of BMW is permitted. The above-mentioned Bio medical Waste shall be sent to Common BMW Treatment & Disposal facility authorized by MPCB.
3	White (Translucent)	Waste sharps including Metals	135	Puncture proof, Leak proof, tamper proof container	
4	Blue	a) Glassware b) Metallic body implants	31 ---	Puncture proof & leak proof boxes or containers with blue colored marking.	

9. If Built up area exceeds more than 20,000 sq. meters and if hospital is commissioned after 14.09.2006, the project proponent shall comply EIA Notification 2006 as Amended.

10. This consent is issued subject to conditions mentioned below,

- a. The "authorized Person" shall comply with provisions of the Environment (Protection) Act, 1986, and the Rules made there under.
- b. Any unauthorized change in equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this Authorization.
- c. If the built-up area exceeds more than 20,000 sq. Mtrs. and if the hospital is commissioned after 14.09.2006, the project proponent shall comply EIA Notification 14.09.2006 by obtaining Environment Clearance.
- d. You shall submit details of Management and Handling of outdated, discarded, unused **Cytotoxic drugs** generated in the Cancer centers, research and health care in the format prescribed by CPCB which is available on www.cpcb.nic.in along with Annual Report to MPCB with a copy to CPCB before 31st January every year.
- e. You shall manage the **Mercury Waste** in the HCE in environmentally sound manner (including storage, spilled collection, transportation and disposal) as per CPCB guidelines published on CPCB website www.cpcb.nic.in dated: 07.09.2010 as detailed in document entitled "Environmentally Sound Management of Mercury Waste in Health Care Facilities".
- f. You shall ensure phase out of chlorinated plastic bags, gloves and blood bags by HCEs within two years;
- g. You shall establish Bar code system within one year

- h. You shall ensure that the liquid waste is treated and disposed by all the occupier or operator of a CBWTF in accordance with the Water Act, 1974;
- i. You shall maintain day to day basis and display the monthly record Including Annual report on its website within two years from the date of Notification.
- j. You shall submit separate Bank Guarantees towards compliance of condition mentioned at Annexure – IV to Regional Office, within 30 days.
- k. You shall submit compliance of Bank Guarantee conditions every six months to Regional Officer, for verification purpose.
- l. You shall submit application for renewal of Combined Consent and Biomedical Waste authorization before 120 days along with appropriate fees.
11. This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
12. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.
13. Project Proponent shall not take effective steps towards establishment prior to obtaining Environmental Clearance As per EIA Notification 2006 and amendment thereto. As per para 2 of EIA Notification dated 14.09.2006, the effective steps include starting of any construction work or preparation of land by the project management. However as clarified by the MOEF & CC vide office memorandum no.J-1103/41/2006-IA,II (I), Dated 19.08.2010, fencing of the site to protect it from getting encroached and construction of temporary shed (S) for the guard(S) & acquisition of land may not be treated as an effective steps.

For and on behalf of the
Maharashtra Pollution Control Board

(E. Ravendiran, IAS)
Member Secretary

Received Consent fee of –

Sr. No.	Amount (Rs.)	D.R. No.	Date	Bank
1	15,49,623	TXN 1812001366	12.12.2018	E- Payment
2	75,000/-	TXN 1812002590	24.12.2018	E- Payment
3	1,00,000/-	TXN 1901000998	09.01.2019	E- Payment
4	1,24,817/-	TXN 19060000847	11.06.2019	E- Payment

Copy to:

1. Regional Officer – MPCB, Aurangabad and Sub –Regional Officer – Aurangabad -1, MPCB – They are directed to ensure the compliance of the CCA conditions.
2. Chief Accounts Officer, MPCB, Mumbai- for information.
3. CAC/CC desk - for record & website updation purposes.

Schedule-I

I) Terms & Conditions for compliance of Water Pollution Control

- 1) A] As per your application you have provided Effluent treatment plant (ETP) of capacity 30 CMD for the treatment of trade effluent generated from the hospital activity.
- B] The applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr. No.	Parameters	Discharge Standards applicable
		Limiting Concentration in mg/l, except for pH
01	pH	6.5-9.0
02	Total Suspended Solids	100
03	Oil & Grease	10
04	BOD (3 days 27°C)	30
05	COD	250
06	Detergent	2.0
07	Bio-Assay test	90 % survival of fish after 96 hours in 100 % effluent

- C] The treated effluent shall be recycled for secondary purpose such as toilet flushing, air conditioning, cooling tower make up, firefighting etc. and remaining shall be used for gardening /connected to the sewerage system provided by local body. In no case, effluent shall find its way to any water body directly / indirectly at any time. Project proponent shall provide flow meter to ensure 60% recycling of treated sewage and shall maintain the records with data logging system.

- 2) A] As per your application you have provided sewage treatment plant (STP) of design capacity of 600 CMD for treatment of domestic sewage generated from the hospital and thereafter the treated effluent shall be discharged followed by Chlorination and the treated effluent shall be disposal to Municipal Sewer / Land application after achieving standard prescribed below:

- B] The applicant shall operate the sewage treatment plant (STP) to treat the domestic effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr. No.	Parameters	Discharge Standards applicable
		Limiting Concentration in mg/l, except for pH
01	pH	6.5-9.0
02	Total Suspended Solids	50
03	Oil & Grease	10
04	BOD (3 days 27°C)	30
05	COD	100
06	Bio-Assay test	90 % survival of fish after 96 hours in 100 % effluent

- C] The treated effluent shall be recycled for secondary purpose such as toilet flushing, air conditioning, cooling tower make up, firefighting etc. and remaining shall be connected to the sewerage system provided by local body. In no case, effluent shall find its way to any water body directly / indirectly at any time. Project proponent shall provide flow meter to ensure 60% recycling of treated sewage and shall maintain the records with data logging system.

- 3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waste water & the system for the disposal of effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps for expansion / modify or establish any modification to treatment and disposal system or an extension or addition thereto.
- 4) You shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 5) You shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time.

Water Consumption details:

Sr. No.	Purpose for water consumed	Water Consumption quantity CMD
1.	Industrial Cooling and boiler feed etc.,	---
2.	Domestic purpose	670.0
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	27.0
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	--
5	Other such as agriculture, gardening, etc.	--

Schedule-II

Terms & conditions for compliance of Air Pollution Control


1. As per your application, you have proposed / provided the Air pollution control (APC) system and also proposed to erect/erected following stack (s) to observe the following fuel pattern-

Sr. No.	Stack Attached to	Height in meter	Type of Fuel	Fuel Qty	SO ₂ In Kg/Day
1	D.G.Set [600 KVA]	4.5	HSD	130 Kg/hrs	62.4
2	D.G.Set [600 KVA]	4.5	HSD	130 Kg/hrs	62.4
3	D.G.Set [750 KVA]	4.5	HSD	132 Kg/hrs	63.36

2. The applicant shall provide stack height of mtrs operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm ³
--------------------	---------------	------------------------

3. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
4. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).



5. Conditions for D.G. Set

- a. Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
- b. Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
- c. Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
- d. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- e. A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
- f. D.G. Set shall be operated only in case of power failure.
- g. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
- h. The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.

Schedule-IV: Bank Guarantees

Statement of conditions to be complied and Bank Guarantee imposed to ensure timely compliance to be observed by

Sr. No.	Activity / Condition to be Complied	Compliance Timeline (Months)	Bank Guarantee Amount
I (A)	Operation and Maintenance		
1	To Segregate and Handle BMW as per Rule	Continuous	Rs. 1,00,000/-
2	To provide STP adequate capacity within 3 months and Towards Operation and Maintenance of STP/ETP to achieve prescribed discharge standards	Continuous	Rs. 1,00,000/-
I (B)	Records		
1	To Maintain records of BMW and submission of Annual Report in Form –II before 31 st January	Continuous	Rs. 25,000/-
2	To maintain records of BMW material delivered to CBMWTSDF	Continuous	Rs. 25,000/-
II	Performance		
1	To provide BMW separate storage facility as per guidelines of CPCB	Continuous	Rs. 75,000/-


Note: You shall submit the B.G. valid for additional 4 month period after the validity of your granted CCA.

Schedule-V
General Conditions

The following general conditions shall apply as per the type of the industry

- 1) You shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) You should monitor effluent quality, stack emissions, noise and ambient air quality quarterly.
- 3) You shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- 5) You shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 6) You shall submit, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992 to Regional Office, , the 30th day of September every year.
- 7) You shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW (MH&TM) Rules 2008, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 8) You shall comply with the Hazardous Waste (M, H & TM) Rules, 2008 and submit the Annual Returns to RO- as per Rule 5(6) & 22(2) of Hazardous Waste (M, H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the HCE.
- 10) You shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
- 11) You shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent & authorization condition towards Environment Protection.
- 12) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.

- 13) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the HCE.
- 14) You shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 15) You should not cause any nuisance in surrounding area.
- 16) You shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 17) You shall maintain good housekeeping.
- 18) You shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement to Regional Office by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
- 19) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
- 20) You shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. You will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 21) You shall submit Six Monthly statement in respect of obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
- 22) You shall submit official e-mail address and any change will be duly informed to the MPCB, forthwith.
- 23) You shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended
- 24) You shall observe provisions of E-waste (Management and Handling) Rules 2011 and Battery Waste (Management and Handling) Rules 2001, as amended.


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12/4/23, 4:22 PM

Not in 1.009 358 n. 4/12/23
The MGM Group Mail - Application Payment Pending



MGM Aurangabad <mgmmca@themgmgroup.com>

Application Payment Pending

1 message

MPCB Web Portal <portalsupport@mpcb.gov.in>

Mon, Dec 4, 2023 at 11:44 AM

Reply-To: "portalsupport@mpcb.gov.in" <portalsupport@mpcb.gov.in>

To: mgmmca@themgmgroup.com

Greeting MGM S MEDICAL COLLEGE & HOSPITAL,

As per your application with UAN number MPCB-CONSENT-0000188429 you have successfully uploaded all the mentioned compulsory document. Please make the payment from the payment section so that your application will be in process.

MPCB Portal Support

Disclaimer

This is an auto generated mail with if you are not a valid recipient please discard the same. This is not the spam. In case of dispute, jurisdiction with respect to Maharashtra jurisdiction

Date: 04-12-2023



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Thank you. Your payment has been successfully received with following details.

Transaction Receipt

Transaction Status:	Success
Transaction Reference no:	ZIDC1585714335
Transaction no:	TXN2312000949
Transaction On:	06-12-2023 12:18:43
Payment For:	MPCB-CONSENT-0000188429
Email:	mgmmca@themgmgroup.com
Mol no:	9823547202
Amount:	2457589.00 INR.

Biomedical Waste Management

Mumbai Waste Management Limited



Plot No. P-32, MIDC Taloja, Tal.Panvel,
Dist.Raigad,
Mumbai Maharashtra 410208 India

Mobile No: 8422877101 Email: bmwmwml@resustainability.com



Unique Registration #: MWML/2023/00668



Registration Certificate



Outward #: MWML/2023/00668

Date: 29-12-2023

This is to certify that MGM Hospital Plot No. 1 & 2, Sector - 20, Kamothe Maharashtra 410209 India is registered with Mumbai Waste Management Limited with Membership No: **PAN1069** for Management of Bio Medical Waste in accordance with, the provision of Bio Medical Waste Management Rules, 2016, as amended and in compliance with the provisions of CPCB guidelines.

- 1 **Authorized Person of HCE** : **Medical Superintendent**
(Name of Designation) Medical Superintendent
- 2 **Bombay Nursing Home Act Registration Details**
 - a. Registration Number : MH/PMC/H-136
 - b. Issue Date : 09/13/2022
 - c. Total Number of Beds : 1075
 - d. Validity (Form "C") : 03/31/2025
- 3 **Common Treatment Facility Registration Detail**
 - a. Date of Registration : 04/21/2004
 - b. No. of Beds Registered : 1075
 - c. Registration Validity : 12/31/2024
- 4 **Renewal of CTF Membership (if Applicable)**
 - a. Renewal Date : 12/30/2024
 - b. No. of Beds : 1075
- 5 **State PCB Consent (Establish/1st Operate) Details**
 - a. Consent / CCA Number : Format 1.0/CAC/UAN No. 0000115356/CR-2112001494
 - b. Issue Date : 12/27/2021
 - c. Validity up to : 06/30/2026



Authorized Signature

Name: Somnath Malgar

Designation: Director

Note: HCE shall display copy of Registration Certificate at front desk and Temporary BMW storage area

Mumbai Waste Management Limited



Plot No. P-32, MIDC Taloja, Tal.Panvel,
Dist.Raigad,
Mumbai Maharashtra 410208 India

Mobile No: 8422877101 Email: bmwmwml@resustainability.com



Unique Registration #:



Registration Certificate



Outward #:

Date: 29-12-2023

This is to certify that Mahatma Gandhi Mission Hospital & Research Centre Plot- 46, Sector- 30, Vashi Maharashtra 400703 India is registered with Mumbai Waste Management Limited with Membership No: **NVM3486** for Management of Bio Medical Waste in accordance with, the provision of Bio Medical Waste Management Rules, 2016, as amended and in compliance with the provisions of CPCB guidelines.

- | | | | |
|---|----------------------------------------------------------|---|------------------------------------------------|
| 1 | Authorized Person of HCE
(Name of Designation) | : | Dr. Nitin N. Kadam
Doctor |
| 2 | Bombay Nursing Home Act Registration Details | | |
| | a. Registration Number | : | 361 |
| | b. Issue Date | : | 12/27/2021 |
| | c. Total Number of Beds | : | 300 |
| | d. Validity (Form "C") | : | 03/31/2024 |
| 3 | Common Treatment Facility Registration Detail | | |
| | a. Date of Registration | : | 02/15/2019 |
| | b. No. of Beds Registered | : | 300 |
| | c. Registration Validity | : | 12/31/2024 |
| 4 | Renewal of CTF Membership (if Applicable) | | |
| | a. Renewal Date | : | 12/30/2024 |
| | b. No. of Beds | : | 300 |
| 5 | State PCB Consent (Establish/1st Operate) Details | | |
| | a. Consent / CCA Number | : | Format1.0/CAC/UAN No. 0000002596/CE-2003001406 |
| | b. Issue Date | : | 03/19/2020 |
| | c. Validity up to | : | 03/18/2025 |



Authorized Signature

Name: Somnath Malgar

Designation: Director

Note: HCE shall display copy of Registration Certificate at front desk and Temporary BMW storage area

04/05/2023

Installation Completion Certificate

This is to certify that we have Supplied and Installed the Composting Machine BioRapid 450 Model which can treat 500 kg wet waste per day to MGM INSTITUTE OF HEALTH SCIENCES, PLOT NO 46,SECTOR 30A SANPADA, NAVI MUMBAI, MAHARASHTRA, 400705, IN against Tax invoice number 222200100164 and 22220400211 dated 31-MAR-2023.

Purchase Order number – MGMIHS/CPD/154.

Material Delivered as on 25 April 2023

.

Installation Done as on 4 May 2023

You're sincerely,

For **Excel Industries Limited**,



Authorized Signatory

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: <http://mpcb.gov.in>
Email: cac-cell@mpcb.gov.in



Kalpataru Point, 2nd and
4th floor, Opp. Cine Planet
Cinema, Near Sion Circle,
Sion (E), Mumbai-400022

RED/L.S.I
**No:- Format1.0/CAC/UAN No.MPCB-
CONSENT-0000169494/CR/2402001344**

Date:
15/02/2024

To,
MAHATMA GANDHI MISSION TRUST
Plot No. 46, Sector 30, Vashi,
Navi Mumbai.
Email:mgmmcvashinm@gmail.com
Contact No.:9326238923



Your Service is Our Duty

Grant of Renewal of Combined Consent and BMW Authorization (CCA) under the provisions of Water (P & CP) Act, 1974, Air (P & CP) Act, 1981 and Bio-Medical Waste Management Rules, 2016 as amended and Hazardous Waste (M & TM) Rules, 2016.

- Ref:**
1. Previous combine consent & BMW authorization granted by Board vide dated 28.09.2022, valid up to 31.03.2023.
 2. Environment Clearance vide No.SEIAA-EC-0000002221 dated 31.12.2019.
 3. Your application for Combine Consent and Bio-Medical Authorization vide UAN No. 169494, dated 04.07.2023.
 4. Minutes of 20th Consent Appraisal Committee meeting held on 11.01.2024.

After examining the proposal, The Maharashtra Pollution Control Board hereby Renew Combined Consent and BMW Authorization to HCE under Section 25/26 of the Water (P&CP) Act, 1974, Section 21 of the Air (P&CP) Act, 1981 and Bio-Medical Waste Management Rules, 2016, and Hazardous Wastes (Management & Transboundary Movement) Rules, 2016 respectively, under Environment (Protection) Act, 1986, subject to terms and conditions as specified below and in the **Schedule(I-IV) and Annexure (I-II)** enclosed in this order.

1. This CCA shall be in force for a period From **31-03-2023 To 31-03-2027**
2. The capital investment of the HCF is **₹6290.0** Lakhs (As per C.A Certificate Submitted by HCF)
3. HCF Area: - Plot Area 32789.29 M² with Built-up area 27731.90 M².
4. **Activities Included**
 - a. Total Number of Beds : **300 Nos.** (As per BNH certificate no. 300)
 - i. General Beds : **300 Nos**
5. **Conditions under the Water (P&CP) Act, 1974:-**

1. Quantity of total water consumption shall not exceed 281 M³/day. You shall not use the ground water without obtaining prior permission of Central Ground Water Authority.

2. You shall provide adequate treatment & disposal facility for Sewage & Effluent generated as specified in **Annexure-I**
3. You shall provide water meter at water intake point & at sewage/Effluent disposal point and shall maintain monthly records thereof.

6. Conditions under the Air (P&CP) Act,1981:-

1. You shall use the fuel for DG set as specified in the **Annexure-II**.
2. You shall provide adequate emission control system to DG set as specified in **Annexure-II**.
3. You shall strictly observe noise standards applicable for DG set stack emission and ambient noise level as per **Annexure-II**.

7. Conditions under Hazardous and Other Wastes(Management, Handling & Transboundary Movement) Rules, 2016 for treatment and disposal of hazardous waste:-

You shall have valid membership of CHWTSDF and shall dispose the Hazardous waste generated in strict compliance with said rules and maintain record thereof.

Sr No	Type of Waste	HW Category no.	Quantity	UOM	Disposal
1		NA	As per Actual	--NA--	NA

8. Conditions under Solid Waste Management rules 2016

1. You Shall Handover Solid waste (Other Than BMW) to Local bodies as per provisions of SWM Rules, 2016.
2. You shall Not mix general solid waste with Bio Medical Waste.

9. Conditions under BMW Management rules, 2016 (As Amended):-

1. You shall adhere to the BMW Generation quantity and storage conditions as specified in Schedule-I of BMW Management Rules, 2016, as amended.
2. You shall segregate and handover BMW to BMW T&D CTF **Mumbai Waste Management Ltd, Talaja, Navi Mumbai** Strictly complying with the Provisions of Schedule-I and Maintain record of the same.
3. **Cytotoxic Drugs/ Waste:** You shall have separate storage, marked with the symbol of Bio Hazard & Cytotoxic Hazard for outdated, discarded, unused cytotoxic drugs/waste and submit details of Management and Handling of outdated, discarded, unused Cytotoxic drugs in the format prescribed by CPCB which is available on www.cpcb.nic.in along with Annual Report to MPCB with a copy to CPCB before 30th June of every year.
4. **Mercury Waste:** You shall manage the Mercury Waste in HCE in environmentally sound manner (including storage, spilled collection, transportation and disposal) as per guidelines published by CPCB as detailed in document entitled "Environmentally Sound Management of Mercury Waste in Health Care Facilities" (www.cpcb.nic.in).

10. You shall not undertake Modifications/ Upgradation in existing facility without obtaining prior Environment Clearance under the Provision of EIA notification, 2006 Or Consent to Establish from the MPC Board as applicable.

11. Any unauthorized change in Location, Name, personnel, equipment or working conditions as mentioned in the application by you shall constitute a breach of this CCA. In case of any change you shall apply fresh for CCA or amendment as applicable.

12. You shall not Rent, Lend, Sell, Transfer or Close Down the facility or otherwise transport / Handover the Bio-Medical waste generated for any other purpose without obtaining prior written permission of the MPC Board.
13. This Board reserves the right to review, amend, suspend, revoke, or change any of the conditions applicable under this CCA and the same shall be binding on the HCE.
14. You shall maintain records of MPC board Officers visit and shall obey all the lawful instructions issued by the Board Officers from time to time.
15. Any violation of provisions of BMW Management Rules, 2016 as amended shall attract the penal provisions of Environment (Protection) Act, 1986 and Violations under the provisions of Water (P&CP) Act 1974, Air (P&CP) act 1981 shall attract provisions of respective act including closure of the facility and prosecution.
16. This CCA shall not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies as applicable.
17. HCE shall comply with the conditions stipulated in EC granted vide dated 31.12.2019.
18. HCE shall provide separate ETP within next 6 Months to treat effluent generated from hospital.
19. HCE shall properly operate STP to achieve consented norms.
20. HCE shall submit/extend BGs as per HCE BG regime.
21. You shall submit the bank guarantee of INR 2.00 lakhs towards compliance of conditions as specified in Schedule III to The Regional Officer, MPCB, Navi Mumbai within 30 days. Non submission of B.G. in specified time shall attract revocation of this CCA without further notice



Received Consent/Authorization fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	500000.00	MPCB-DR-19487	04/07/2023	NEFT

(As per previous consent Rs. 20,000/- was balance with Board + Rs. 75,000/- = 95,000/- is balance with Board which will be considered during next renewal of consent)

Copy to:

1. Regional Officer, MPCB, Navi Mumbai and Sub-Regional Officer, MPCB, Navi Mumbai
 - They are directed to ensure the compliance of consent conditions.
2. Chief Accounts Officer, MPCB, Sion, Mumbai
3. I/C EIC- for record & website updating purpose.
4. CAC-CC desk - for record & website updation.

Conditions under Water (P & CP), 1974 Act: (Refer Condition No. 5)

A. Water Consumption Details:-

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	0.00
2.	Domestic purpose	158.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	123.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Other such as agriculture, gardening, etc.	0.00

B. Conditions for Sewage & Effluent Generation, Treatment and Disposal:-

Sr. No.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1	Domestic Sewage	126	As per clause 'C'	Recycle to maximum extent & remaining on land for gardening
2	Trade effluent	46	As per clause 'C'	As above

C. You shall operate the combined waste water treatment plant of adequate design and capacity to treat the domestic sewage and trade effluent so as to achieve the following standards as prescribed below under E (P) Act, 1986 and Rules made there under and recycle treated effluent after achieving standard prescribed below.

Sr. No.	Parameters	Discharge Standards applicable
		Limiting Concentration in mg/except for pH
1	pH	6.5-9.0
2	Oil & Grease	10
3	BOD (3 days 27°C)	30
4	COD	250
5	Total Suspended Solids	100
6	Bio-Assay Test	90 % survival of fish after 96 hours in 100 % effluent

D. You shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.

E. You shall provide Primary/ Secondary/ tertiary treatment system and disinfection facility.

F. The Applicant shall obtain prior consent of the Board to take steps for Expansion/Modification of any treatment and disposal system or an extension or addition thereto.

G. You shall provide Specific Water Pollution control system as per above conditions and conditions of Environmental Clearance, if applicable.

Terms & conditions for Incinerator(s) and D.G. Set(s) under Air (P & CP) Act, 1981 and Bio Medical waste management Rule, 2016: (Refer Condition No.6)

1. You shall observe following fuel pattern and erect following stack (s):

Sr. No.	Stack Attached to	Fuel Type	Quantity	Stack Height (Mtr)
1	D. G. Set (2 x 1250 KVA)	HSD	263.00 Kg/Hr	10.00
2	D. G. Set (615 KVA)	HSD	130.00 Kg/Hr	10.00
3	D. G. Set (380 KVA)	HSD	80.00 Kg/Hr	10.00
4	D. G. Set (250 KVA)	HSD	53.00 Kg/Hr	10.00

2. The Applicant shall obtain prior permission of MPC board for providing additional control equipment with necessary specifications and operation thereof or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
3. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, either in whole or in part as necessary).
4. Conditions for D.G. Set:-
- Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically for control of noise.
 - Acoustic enclosure/acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB(A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - You shall make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - D.G. Set shall be operated only in case of power failure.
 - The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - The applicant shall comply with the notification of MoEFCC dated 17.05.2002 regarding noise limit for generator sets run with diesel.
5. You shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.

SCHEDULE-I**Authorization for Management of Bio-Medical Waste (Category and Quantity)**

The authorization is granted for Generation and Segregation of BioMedical Waste (BMW) in waste categories and quantities listed here in below:

Sr. No	Category	Type of Waste	Quantity not to exceed (Kg/Month)	Segregation Colour coding	Treatment & Disposal
1	Yellow	a) Human Anatomical waste	20.00	Yellow coloured non- chlorinated plastic bags.	Bio medical Waste shall be sent to MPCB authorized BMW-CTF Mumbai Waste Management Ltd, Taloja, Navi Mumbai Taloja, Navi Mumbai
		b) Animal Anatomical Waste	0.00		
		c) Soiled Waste	2000.00		
		d) Expired or Discarded Medicines	40.00		
		e) Chemical Waste	200.00		
		f) Chemical Liquid Waste	150.00	Separate collection system leading to effluent treatment system.	
		g) Discarded linen, mattresses, beddings contaminated with blood or body fluid.	60.00	Yellow coloured non - chlorinated plastic bags or suitable packing material.	
		h) Microbiology Biotechnology and other clinical laboratory waste	55.00	Autoclave safe plastic bags or containers.	
2	Red	Contaminated waste (Recyclable)	200.00	Red coloured non chlorinated plastic bags or containers.	Bio medical Waste shall be sent to MPCB authorized BMW-CTF Mumbai Waste Management Ltd, Taloja, Navi Mumbai Taloja, Navi Mumbai
3	White (Translucent)	Waste sharps including Metals	75.00	Puncture proof, Leak proof, tamper proof container.	Bio medical Waste shall be sent to MPCB authorized BMW-CTF Mumbai Waste Management Ltd, Taloja, Navi Mumbai Taloja, Navi Mumbai
4	Blue	a) Glassware	40.00	Puncture proof, Leak proof with Blue coloured marking.	Bio medical Waste shall be sent to MPCB authorized BMW-CTF Mumbai Waste Management Ltd, Taloja, Navi Mumbai Taloja, Navi Mumbai
		b) Metallic body implants	75.00		

Responsibilities of CBWTF

1. You shall handover Bio Medical waste only to MPCB Authorized Common Bio medical waste treatment and Disposal facility **Mumbai Waste Management Ltd, Talaja, Navi Mumbai** and maintain records thereof for 5 years.
2. You shall establish bar code for handling of bio-medical waste.
3. You shall ensure segregation of Bio-Medical Waste in colour coded bags as per BMW Management Rules, 2016
4. You shall not store Bio Medical waste beyond 48 hours from the generation.
5. You shall use only non-chlorinated plastic coloured bags.
6. You shall ensure use of colour coded bins and bags for segregation of BMW as required under BMW Management Rules 2016.
7. You shall not mix General/other Solid waste with Bio Medical Waste.
8. You shall ensure segregation, treatment and disposal of General / Other Municipal solid waste as per Solid Waste Management rules, 2016.
9. You shall pay the charges to authorized Common Bio Medical waste Treatment and Disposal facility for its services as agreed upon during the membership registration or as amended.
10. You shall comply and strictly abide with the conditions stipulated in BMW Management Rules, 2016 as amended time to time.
11. You shall handover Plastic / Metal waste (BMW) to Common Bio medical waste treatment and Disposal facility allocated to you for treatment & disposal or plastic/metal recycler authorized by MPCB for BMW Handling and maintain records thereof & submit to MPCB in Annual report.
12. You shall provide training to all workers involved in handling of bio-medical waste at the time of induction and at least once a year thereafter and maintain record thereof.
13. You shall undertake appropriate medical examination of all BMW Waste handlers & staff at the time of induction and at least once in a year and immunize all involved in management 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.
14. You shall ensure use of personal protective Equipment such as Heavy Duty Gloves (Workman's Gloves), Gum Boots or safety shoes for waste collectors, Face mask, Head Cap, Splash Proof Gowns or aprons etc., Disposal gloves by waste handlers.
15. You shall develop and operate own website. The website should be uploaded on monthly basis with all the information relating to Bio-Medical waste management including this CCA and other permission and report.
16. You shall maintain all record for Generation, for a period of five years and produce whenever asked by MPCB authorities.
17. The occupier and operator of a Health Care Establishment shall be liable for all the damages caused to the environment or the public due to improper handling of bio-medical wastes.
18. You shall ensure submission of Annual Report of BMW for the period Jan to Dec, including category and quantity of BMW Generated and Disposed in Form IV for preceding year before 30th June of every year to the Regional Office, MPCB, Navi Mumbai and uploading the same to MPCB Portal (<https://www.ecmpcb.in/>).

Bank Guarantees

1. Bank Guarantee imposed to ensure timely compliance, to be observed by operator.

Sr.No	Activity / Condition to be Complied	Compliance Timeline (Months)	Bank Guarantee Amount
1A	Operation and Maintenance		
1	To Segregate and Handle BMW as per Rule	Continuous	25,000.00
2	Towards Operation and Maintenance of STP/ETP to achieve prescribed discharge standards	Continuous	100,000.00
1B	Records		
1	To Maintain records of BMW and submission of Annual Report in Form -II before 30th June of every year	Continuous	25,000.00
2	To maintain records of BMW material delivered to CBMWTSDF	Continuous	25,000.00
2	Performance		
1	To provide BMW separate storage facility as per guidelines of CPCB	Continuous	25,000.00
Total			2,00,000.00

Note: You shall extend the existing submitted Bank Guarantee for the Activity / Condition to be Complied mentioned in the above table valid upto the validity of this CCA + 4 months additional. Submit a fresh Bank Guarantee for the newly added Activity / Condition to be Complied mentioned in the above table valid upto the validity of this CCA + 4 months additional.

General Conditions**The following general conditions shall apply:-**

1. You shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
2. Whenever due to any accident or other unforeseen act or event, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith reported to Board, concerned Police Station, Executive Engineer MIDC and Local Body. In case of failure of pollution control equipment's, the process connected to it shall be stopped.
3. You shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control operation to abide by terms and conditions of this consent.
4. You shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 15 of the Environment (Protection) (Second Amendment) Rules, 1992.
5. You shall comply with the Hazardous Waste (M, H & TM) Rules, 2016 and submit the Annual Returns as per Rule 20(2) of Hazardous Waste (M, H & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year to Regional Office, Navi Mumbai.
6. You shall engage qualified staff/personnel/agency to see the day to day compliance of consent & authorization condition towards Environment Protection.
7. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the Terminal manholes. No effluent shall find its way other than in designed and provided collection system.
8. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the HCE.
9. You shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
10. You should not cause any nuisance in surrounding area. You shall maintain good housekeeping.
11. You shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted.
12. The non-hazardous solid waste arising in the HCE premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
13. You shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification Dated. 16/11/2009 as amended.
14. You shall submit an official e-mail address and any change will be duly informed to the MPCB.

15. You shall observe provisions of E-waste (Management) Rules 2016 & as amended time to time and Batteries (Management and Handling) Amendment Rules, 2010.
16. An inspection book shall be opened and made available to the Board's officers during their visit to the HCE.
17. In case you use/ handle/ generate the cytotoxic waste you shall strictly adhere to the standards/ SOPs applicable and waste shall be labelled specifically as "Cytotoxic Waste" with symbol on waste containers/ bags and shall handover to BMW CTFs.
18. You shall obtain required permissions from competent authority for radio active material user/ handling/ disposal of waste before commencement of such activity.
19. The Energy source for lighting purpose shall preferably be LED based.
20. You shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
21. You shall provide personal protection equipment as per norms of Factory Act 1948
22. You are responsible to submit application for renewal of Combined Consent & Biomedical Waste authorization before 60 days of expiry.

This certificate is digitally & electronically signed.





Towards sustainable growth



Mumbai Waste Management Limited

SERVICE CERTIFICATE

MIS M G M Hospital - kamothe

is a registered members of

CBMW-TSDF at MIDC, Talaja

for safe & secure disposal of

Bio Medical Waste.

Registration no.: MWML - BMW PAN-1069

This Certificate is valid upto

31st Dec'2022 For 810 Beds.

Somnath Malgar
Project Head

Certificate No.: MWML-BMW-2021-2022/04234

Mumbai Waste Management Limited



Plot No. P-32, MIDC Taloja, Tal.Panvel,
Dist.Raigad,
Mumbai Maharashtra 410208 India

Mobile No: 8422877101 Email: bmwmwml@resustainability.com



Unique Registration #: MWML/2023/00668



Registration Certificate



Outward #: MWML/2023/00668

Date: 29-12-2023

This is to certify that MGM Hospital Plot No. 1 & 2, Sector - 20, Kamothe Maharashtra 410209 India is registered with Mumbai Waste Management Limited with Membership No: **PAN1069** for Management of Bio Medical Waste in accordance with, the provision of Bio Medical Waste Management Rules, 2016, as amended and in compliance with the provisions of CPCB guidelines.

- 1 **Authorized Person of HCE** : **Medical Superintendent**
(Name of Designation) Medical Superintendent
- 2 **Bombay Nursing Home Act Registration Details**
 - a. Registration Number : MH/PMC/H-136
 - b. Issue Date : 09/13/2022
 - c. Total Number of Beds : 1075
 - d. Validity (Form "C") : 03/31/2025
- 3 **Common Treatment Facility Registration Detail**
 - a. Date of Registration : 04/21/2004
 - b. No. of Beds Registered : 1075
 - c. Registration Validity : 12/31/2024
- 4 **Renewal of CTF Membership (if Applicable)**
 - a. Renewal Date : 12/30/2024
 - b. No. of Beds : 1075
- 5 **State PCB Consent (Establish/1st Operate) Details**
 - a. Consent / CCA Number : Format 1.0/CAC/UAN No. 0000115356/CR-2112001494
 - b. Issue Date : 12/27/2021
 - c. Validity up to : 06/30/2026

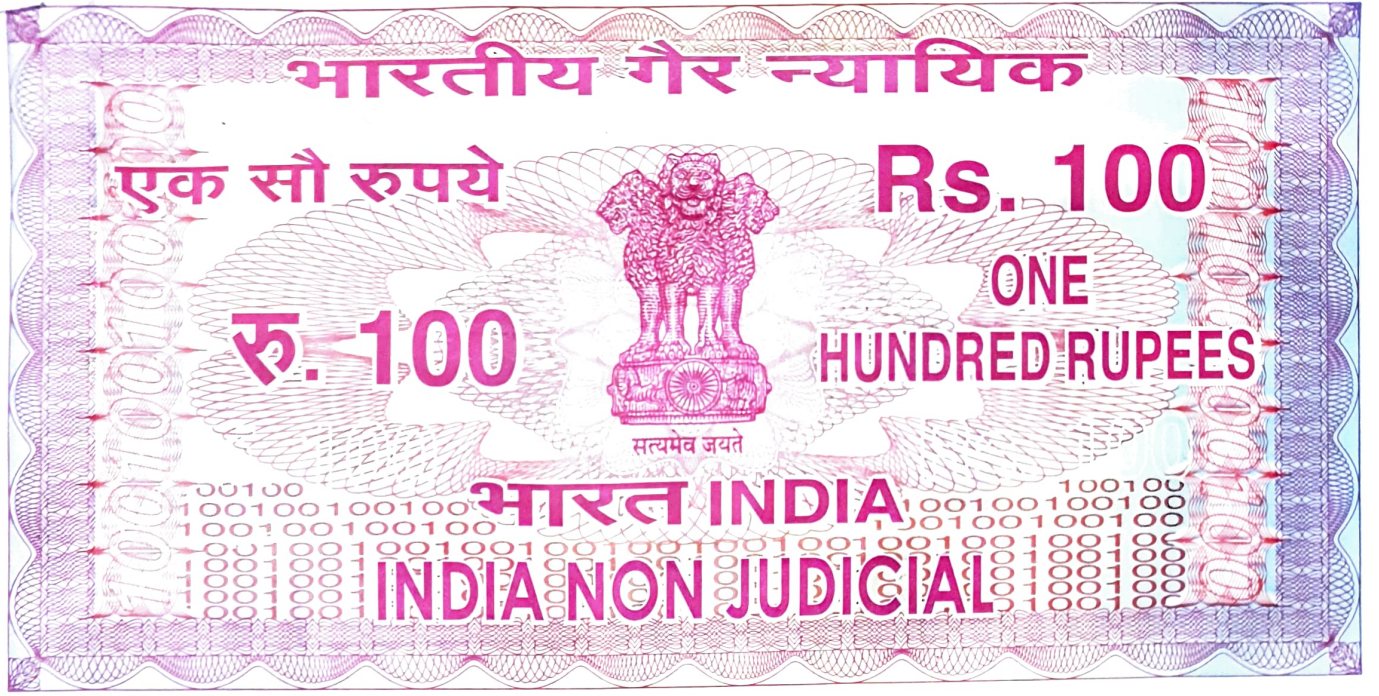


Authorized Signature

Name: Somnath Malgar

Designation: Director

Note: HCE shall display copy of Registration Certificate at front desk and Temporary BMW storage area



महाराष्ट्र MAHARASHTRA

2021

ZS 306104

0 APR 2022

भुरवड्याचा दिनांक
उपकोषागारचे नांव-पनवेल,
जि. रायगड.

उप कोषागार अधिकारी
पनवेल - रायगड



AGREEMENT

This agreement has been entered on this 28th April day of the year 2022

BETWEEN

Mumbai Waste Management Ltd., (hereinafter referred to as **MWML**) having its Office at Plot No. P – 32, MIDC Talaja, Tal: Panvel, Dist: Raigad, Maharashtra – 410 208 duly represented by - **Mr. Somnath Malgar, Director**

AND

Name of Health Care Establishment (HCE): **MGM Hospital**
(Hereinafter referred to as **GENERATOR**) Full Address: Plot No. 1 & 2, Sector – 18,
Kamothe, Navi Mumbai – 410 210 Authorized representative of Generator:

Dr. K. R. SALGOTRA, HOSPITAL DIRECTOR Designation: **Director** Contact No.:

02227437687 e-mail ID: Kmgmhospital@gmail.com

Dr. LV General (Retd) K R Salgotra, VSM
Hospital Director
MGM Medical College & Hospital,
Kamothe, Navi Mumbai - 410 209.




NOW THIS INDENTURE WITNESSETH and it is hereby covenant as follows:

Validity of the Agreement

This agreement shall remain in force for a period of Five years w.e.f. **1st day of April of the year 2022 to 31st day of March of the year 2027** (both days inclusive), and can be further renewed with mutual consent of both the parties.

Responsibilities of the "MWML"

1. "MWML" shall meet all the rules and regulations as stipulated by the MPCB.
2. "MWML" alone is liable for any violation of the Environment (Protection) Act 1986 and the relevant rules made there under, after collection of BMW from the GENERATOR.
3. "MWML" shall collect the **segregated** bio-medical waste from the identified common waste collection point within the premises of GENERATOR on daily basis. "MWML" shall provide assistance to finalize the pick-up location to the GENERATOR. The GENERATOR shall be fully responsible for keeping the BMW under lock and key and protecting it from any sort of mishandling before it is handed over to any authorized person of MWML.
4. MWML shall schedule the timings for collecting the waste in consultation with the GENERATOR.
5. In case "MWML" fails to collect the BMW within a time frame of 24 hours of the designated time due to any reason, the GENERATOR shall inform "MWML", who shall ensure to collect the BMW from the premises of the GENERATOR within the next 24 hours of the intimation.
6. "MWML" shall transport the segregated waste in closed container vehicle to its treatment facility in enclosed bins.
7. On the written request of the GENERATOR, "MWML" shall undertake to provide/educate the generator and its staff, at no extra cost, the initial training about the segregation / method of collection of BMW in designated color coded plastic bags.
8. "MWML" shall not be held liable for any kind of the violation made by the generator / or its staff under the Environment (Protection) Act 1986 or any similar regulations/norms.
9. "MWML" shall be responsible for appropriate treatment and shredding of disinfected waste at the centralized facility as per Schedule -1 of the BMW (M&H) Rules 1998 & amendments made there under.
10. "MWML" shall also undertake testing of treated waste to ensure safety to the environment as per Rules.
11. "MWML" shall be responsible for the disposal of treated waste into secured landfills or in recycling plants as applicable.



Dr. LV General (Retd) K R Salgotra, VSM
Hospital Director
MGM Medical College & Hospital,
Kamothe, Navi Mumbai - 410 209.

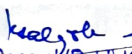


Responsibilities of the Generator

1. The GENERATOR shall segregate the waste at the point of generation in accordance with the BMW (M&H) Rules 1998 and in compliance with the standards prescribed there under.
2. The GENERATOR shall collect and hand over the segregated BMW in plastic bags as stipulated by the Maharashtra Pollution Control Board (MPCB) norms.
3. All consumables like bags, needle cutters, disinfectants etc. shall be procured by the GENERATOR at its own cost.
4. All the bags shall be sealed tightly and labeled as per the rule by the GENERATOR and "MWML" will collect the sealed bags only from a secured designated point within the premises of the GENERATOR.
5. The GENERATOR shall disinfect the sharps, mutilate them and hand over in Puncture Proof Containers to "MWML".
6. The GENERATOR shall take all steps to ensure that the waste is handled without adverse effects to human health and environment.
7. The GENERATOR shall establish a common secured waste collection point within its premises for collection and handing over to "MWML".
8. The GENERATOR shall furnish annual report on "Form-II" regarding generation, collection and storage of Bio-Medical wastes in the prescribed format to Maharashtra Pollution Control Board.
9. The GENERATOR shall maintain all the relevant records and make reports of the accidents to MPCB, if any, on "Form-III" as prescribed under the rules.
10. The GENERATOR shall designate a "Nodal Officer" to interact with "MWML".
11. The BMW handed over by the GENERATOR may be checked and suggestions, if needed, may be provided for improvement in the segregation of waste by "MWML".
12. The GENERATOR shall obtain authorization from the Maharashtra Pollution Control Board.
13. The GENERATOR shall be solely responsible for the number of beds being declared to "MWML", which must be same for which the authorization is obtained from Maharashtra Pollution Control Board. The GENERATOR shall inform "MWML" and MPCB within 7 days about any change in the number of beds. MWML shall not be responsible for any under/over declaration by GENERATOR on this account.

Terms & Conditions

1. The GENERATOR has already paid One Time Non-Refundable Membership Registration Fee of Rs. 1000/-.
2. The GENERATOR has already paid an amount equal to 6 months of service charges as refundable/ adjustable security deposit.
3. MWML shall charge the service of collection, transport, treatment & disposal of BMW is **Rs.12.41** (Twelve Rupees Forty One Paisa Only.) per bed per day for your hospital total beds i.e. **810 Beds**.


Dr. LV General (Retd) K R Salgotra, VSM
Hospital Director
MGM Medical College & Hospital,
Kamothe, Navi Mumbai - 410 209.



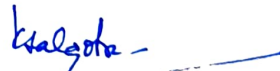
4. The above rates shall be increased annually by **10%** on previous year's rates. The first revision will be from **1st April 2023**.
5. The no. of beds as well as quantity of waste shall be reviewed annually. The agreement may be amended suitably if required
6. If the Generator by virtue of any reason fails to make the payment within 25 days of submission of bills, "MWML" shall charge 1% of invoices amount as a late payment charges.
7. MWML would be at liberty to serve the notice of termination of agreement / suspension of services offered at any time to the GENERATOR if the GENERATOR fails to make the payment to "MWML" within a time frame of 3 months from the date on which they became so payable.
8. In the case of the termination of the agreement by virtue of applicability of Para 6 above, the security deposit/ advance paid by the GENERATOR shall stand forfeited without impacting the original claim of the "MWML"
9. All payments shall be made through crossed a/c payee **demand draft or cheque**, favoring "Mumbai Waste Management Ltd" only.
10. All bounced cheques shall be charged @ Rs. 500 /- extra in addition to the actual bank charges.
11. The jurisdiction of Court in all disputes would be the place of office of MWML only

Termination Clause

Both the parties would be at liberty to terminate this contract by serving a notice of 3 Months well in advance or alternately compensating the other party by an amount equal to the average of 3 months billing.



Somnath Malgar
Director
(Authorized Signatory - "MWML")



Dr. Lt/General (Retd) K. R. Salgotra, VSM
Hospital Director
(Authorized Signatory - "Generator")

Dr. Lt/ General (Retd) K R Salgotra, VSM
Hospital Director
MGM Medical College & Hospital,
Kamothe, Navi Mumbai - 410 209.

Liquid waste management

**MAHATMA GANDHI MISSION**

Kamothe Site, Plot No.1&2, Sector-1, Navi Mumbai – 410209.

Work OrderRef - MGM Medical College/ Parking Building (25 KLD ETP Plant)/Ref. No.002.
Workorder cost:- 1500000.00Work Order No.002.
Date - 11.04.2023.

To,
ASP Enviro Engineering
133 & 134, 1 St Floor, Silver Spring,
Opp. To Dena Bank. Taloja
Navi Mumbai-410208
State Name : Maharashtra, Code : 27
Contact : 8208845113/9769267667
E-Mail : ankushmudgadkar@gmail.com/marketing@aspenviro.com .

Subject : Work Order for Supply & Installation of 25 KLD ETP(Effluent Treatment Plant) at Parking building MGM Kamothe Navi Mumbai.

Location:-MGM Hospital Kamothe New Parking building Basement

Design,Supply, installing, Teasting & Commissioning of ETP plant (Capacity- 25 KLD)

Sr.No.	Description	Make	Unit	Qty	Rate	Amount
	Design, Supplying, Installing, Testing & Commissioning of Effluent Treatment Plant capacity 25 KLD					
A	Preliminary Works					
	Detailed GA drawing, flow diagram, equipment list, power load requirement with design calculations of all elements of the plant, electrical and mechanical work to satisfy / supply adequacy of design followed by submission of detailed good for construction, architectural, structural, electrical, mechanical and piping drawing for approval.					
	Contractor shall ensure submission of detailed GA drawings (Plan & Section), P & I diagram, schematic diagram for the above mentioned components and other additional complete work.					
B	Effluent Treatment Plant					
1	Basis Of Plant Design					
1.1	Inlet water Parameters					
	PH - 5.5 - 8.5					
	BODs - 400 - 600 mg/l					
	COD - 500 - 800 mg/l					
	TSS - 200 - 450 mg/l					
	Oil & Grease - 50 mg/l					
1.2	Outlet Parameters After Treatment					
	PH - 6.0 - 7.5					
	BODs - Less than 50 mg/l					
	COD - Less than 100 mg/l					
	TSS - Less than 30 mg/l					
	Oil & Grease - Less than 10 mg/l					
2	Nature of effluent -					
	Effluent from Laundry,CSSD,Blood Bank,OT area,Micro & Patho Lab & Engg Chemical Lab.					
B	Vendors Scope					
	Plant Design & Drawings,Fabrication, Supply, Installation & Commissioning of all Standby Electromechanical equipment & Piping for ETP Plant					
1	Supply & Installation of Bar screen	ASP Enviro	1	No	17600	17600
	Size :- As per final Layout					
	MOC :- ss 304					
	Capacity :- 1 KL					
	Includes Related Piping,Electrical & Engineering Work					
2	Supply & Installation of Oil & Grease Trap	Universal	1	No	38500	38500
	Size :- As per final Layout					
	MOC :- RCC as per final Layout					
	Capacity :- 2 KL					
	Includes Related Piping,Electrical & Engineering Work					
3	Supply & Installation of Effluent Transfer Pump (1Working+1Standby)	Kirloskar	2	Nos	23500	47000
	MOC :- CI					
	Capacity :- 10 m3/hr 1 Hp					
	Includes Related Piping,Electrical & Engineering Work					
4	Supply & Installation of Agitator (Neutralization & Flocculation Tanks)	Sudarshan	2	Nos	22000	44000
	MOC :- CI					
	Capacity :- 0.5 Hp					
	Includes Related Piping,Electrical & Engineering Work					

Sr.No.	Description	Make	Unit	Qty	Rate	Amount
5	Supply & Installation of Air Blower (1Working+1Standby) Type:- Twin Lobe Root Blower MOC :- CI Capacity :- 50 m3/hr 2 Hp Includes Related Piping,Electrical & Engineering Work	Everest	2	Nos	55000	110000
6	Supply & Installation of Air Diffusers as per design Type:- Tubular EPDM Includes Related Piping,Electrical & Engineering Work	Universal	1	Lot	88000	88000
7	Supply & Installation of Settler Media for Primary & Secondary Tanks as per design Type:- Tube type in PP with base frame Includes Related Piping,Electrical & Engineering Work	ASP Enviro	1	Lot	55000	55000
8	Supply & Installation of Filter Feed Pump (1Working+1Standby) MOC :- CI Capacity :- 5 to 10 m3/hr 2 Hp Includes Related Piping,Pressure Gaug, Electrical & Engineering Work	Kirloskar	2	Nos	28500	57000
9	Supply & Installation of Pressure Sand Filter MOC :- PPFRRP Capacity :- 5 m3/hr Filter Media:- 1 Lot Type Of Valve:- Butter Fly/Multiport Includes Related Piping,Electrical & Engineering Work	Pentair	1	No	55000	55000
10	Supply & Installation of Activated Carbon Filter MOC :- PPFRRP Capacity :- 5 m3/hr Filter Media:- 1 Lot Type Of Valve:- Butter Fly/Multiport Includes Related Piping,Pressure Gauge,Electrical & Engineering Work	Pentair	1	No	68300	68300
11	Supply & Installation of Dosing Pump With Tanks (100 ltr) MOC :- CI Capacity :- 0 to 60 LPH 0.135 hp Includes Related Piping,Electrical & Engineering Work	Edose	3	Nos	23700	71100
12	Supply & Installation of Sludge pump (1Working+1Standby) MOC :- CI Capacity :- 5 to 10 m3/hr 1 Hp Includes Related Piping,Electrical & Engineering Work	Kirloskar	2	Nos	22000	44000
13	Supply & Installation of Recycle pump (1Working+1Standby) MOC :- CI Capacity :- 5 to 10 m3/hr 1 Hp Includes Related Piping,Electrical & Engineering Work	Kirloskar	2	Nos	24200	48400
14	Supply & Installation of Treated Water Transfer pump (1Working+1Standby) MOC :- CI Capacity :- 20 m3/hr 2 Hp Includes Related Piping,Electrical & Engineering Work	Kirloskar	2	Nos	31400	62800
15	Supply & Installation Sludge Dewatering (Bag Unit) Size:- 100 Kg MOC :- SS Capacity :- Sutable 5-10 kg/hr Includes Related Piping,Electrical & Engineering Work	Asp Enviro	1	No	192500	192500
16	Supply & Installation of Control Panel with all Cabling Type:- Autotomation with indication lamp,Energy Meter Make. :- L & T/ Siemens (Electrical Parts) MOC :- MS Powder Coated Includes Related Electrical Cabling & Engineering Work Note:- All motor starter shall be provided with automatic level controller, Panels shall be treated with all anticorrosive process before painting & final approved shade of powder coated paint.Earthing terminals shall be provided.Quoted rates shall be inclusive of cables,trays,with earthing from panel to each motor/equipment.	ASP Enviro	1	Lot	143000	143000
17	Supply & Installation of Electromagnetic Flow Meter Capacity :- Sutable Includes Related Piping,Electrical & Engineering Work	Aster	2	Nos	44000	88000

Sr.No.	Description	Make	Unit	Qty	Rate	Amount
18	Supply & Installation of Pressure Gauges Capacity :- Sutable as per line Includes Related Piping,Electrical & Engineering Work	Aster	1	Lot	19800	19800
19	Erection & Commissioning Work Piping & Fabrication,installation of Equipments,Pumps with Suction/ Delivery Pipe line,valves,stainer, air distributions systems & all Inter -Connected pipe line. (MS/UPVC/CPVC)	Asp Enviro	1	Job	220000	220000
20	Equipment transportation and freight charges	Asp Enviro	1	Job	30000	30000
					Total Amount	1500000.00

Terms & Conditions:-

Vendors must include all items that are necessary & essential to provide a complete working plant to the satisfaction of engineer in charge & as per MPCB norms No extra payable later. Any deficiency / improvement in this WO must be brought to the knowledge of the Site Engineer

Payment Terms 50% advance with workorder and 30 % against proforma invoice after material delivery balance 20% amount after completion of work

Agency should give an drawing & details civil work includes Tanks & Foundation.

After installation & Commissioning agency will deput one person for operation of plant for 3 month.

Training the person from MGM how to operate plant & their maintainence & entire water to be treat uo to standard parameters.

MPCB Approval to operate ETP plant , final testing report, GA Drowing, Layout plan, P & ID, flow chart submission in Agency scope.

ASP technical person will visit once in 3 month(for one year)

Work Completion Period- 45 Days

After Warranty AMC 10 % with Escalation every year rs 600000/-

After Warranty CMC 10 % with Escalation every year rs 840000/-

All rectification if required will be in ASP Scope.

Material Quantity will be Increase or Decrease as per actual work on site.

All Fabrication work in ASP vendor Scope

Civil work in MGM Scope

Taxes as applicable extra

Usual TDS will be deducted from your bill.

All material will be provided by you.

You should do all work properly & with standard application.

All Safety measures should be taken by you while working on site


 Site Engineer
 MGM kamothe, Navi mumbai



**MAHATMA GANDHI MISSION
CONSTRUCTION DEPARTMENT**
Kamothe Site, Plot No.1&2, Sector-1, Navi Mumbai – 410209.

Work Order

Ref - MGM Medical College/ Parking Building (400 KLD STP Plant)/Ref. No.001.
Workorder cost:- 3400000.00

Work Order No.001.
Date - 11.04.2023.

To,
ASP Enviro Engineering
133 &134, 1 St Floor, Silver Spring,
Opp. To Dena Bank. Taloja
Navi Mumbai-410208
State Name : Maharashtra, Code : 27
Contact : 8208845113/9769267667
E-Mail : ankushmudgadkar@gmail.com/marketing@aspenviro.com

Subject : Work Order for Supply & Installation of 400 KLD STP(Sewage Treatment Plant) SBR Technology at Parking building MGM Kamothe Navi Mumbai.

Location:-MGM Hospital Kamothe New Parking building Basement

Design,Supply, installing, Teasting & Commissioning of STP plant (Capacity- 400 KLD) SBR Technology

Sr.No.	Particulars	Make	Unit	Qty	Rate	Amount
	Design, Supplying, Installing, Testing & Commissioning of Sewage Treatment Plant capacity 400 KLD					
A	Preliminary Works Supply & submission of detailed GA drawings (Plan & Section), P & I diagram, schematic diagram for the below mentioned components and other additional complete work.flow diagram, equipment list, power load requirement with design calculations of all elements of the plant, electrical and mechanical work to satisfy / supply adequacy of design followed by submission of detailed good for construction, architectural, structural, electrical, mechanical and piping drawing for approval.					
B	Sewage Treatment Plant					
1.1	Inlet water Parameters PH - 6.0 - 9.5 BODs - 250 - 500 mg/l COD - 500 - 600 mg/l TSS - 200 - 450 mg/l Oil & Grease - 50 mg/l					
1.2	Outlet Water Parameters After Treatment PH - 6.0 - 7.5 BODs - Less than 30 mg/l COD - Less than 50 mg/l TSS - Less than 10 mg/l Oil & Grease - Less than 10 mg/l					
	Nature of Sewage Water - Domestic Sewage from Hospital, Collage Building, Hostels, Staff Quarter & Canteen area.					
1	Supply & Installation of Bar screen Size :- As per final Layout MOC :- ss 304 Capacity :- 3 KL Includes Related Piping,Electrical & Engineering Work	ASP Enviro	No	1.00	19800.00	19800.00
2	Supply & Installation of Oil & Grease Trap Size :- As per final Layout MOC :- RCC as per final Layout Capacity :- 6 KL Each 0.25 hp Includes Related Piping,Electrical & Engineering Work	Universal-Premier	Nos	1.00	44000.00	44000.00
3	Supply & Installation of Septic Tank Transfer Pump (1Working+1Standby) MOC :- CI Capacity :- 40 m3/hr 5 hp Includes Related Piping,Electrical & Engineering Work	Kirloskar	Nos	2.00	56750.00	113500.00
4	Supply & Installation of Raw Sewage Transfer Pump (1Working+1Standby) MOC :- CI Capacity :- 40 m3/hr 5 hp Includes Related Piping,Electrical & Engineering Work	Kirloskar	Nos	2.00	56750.00	113500.00

Sr.No.	Particulars	Make	Unit	Qty	Rate	Amount
5	Supply & Installation of Air Blower (1Working+1Standby) Type:- Twin Lobe Root Blower MOC :- CI Capacity :- 200 m3/hr 10 hp Includes Related Piping,Electrical & Engineering Work	Everest	Nos	2.00	132000.00	264000.00
6	Supply & Installation of Air Diffusers Type:- Tubular EPDM MOC :- Sutable Size :- Length 1000 mm Dia- 90 mm Includes Related Piping,Electrical & Engineering Work	Universal	Lot	1.00	275000.00	275000.00
7	Supply & Installation of DMF Feed Pump (1Working+1Standby) MOC :- CI Capacity :- 40 m3/hr 5 hp Includes Related Piping,Pressure Gaug, Electrical & Engineering Work	Kirloskar	Nos	2.00	54750.00	109500.00
8	Supply & Installation of Filter Feed Pump (1Working+1Standby) MOC :- CI Capacity :- 40 m3/hr 5 hp Includes Related Piping,Pressure Gaug, Electrical & Engineering Work	Kirloskar	Nos	2.00	52800.00	105600.00
9	Supply & Installation of Pressure Sand Filter MOC :- MSEP Capacity :- 40 m3/hr Filter Media:- 1 Lot Type Of Valve:- Butter Fly Includes Related Piping,Electrical & Engineering Work	ASP Enviro	No	1.00	341000.00	341000.00
10	Supply & Installation of Activated Carbon Filter MOC :- MSEP Capacity :- 40 m3/hr Filter Media:- 1 Lot Type Of Valve:- Butter Fly Includes Related Piping,Pressure Gauge,Electrical & Engineering Work	ASP Enviro	No	1.00	374000.00	374000.00
11	Supply & Installation of Ozonation System with sutable pump Pump Make. :- Kirloskar -2 hp MOC :- CI Capacity :- Sutable Includes Related Piping,Electrical & Engineering Work	Eltech	No	1.00	352000.00	352000.00
12	Supply & Installation of Sludge pump (1Working+1Standby), MOC :- CI Capacity :- 20 m3/hr 2 hp Includes Related Piping,Electrical & Engineering Work	Kirloskar	Nos	2.00	32750.00	65500.00
13	Supply & Installation of Recycle pump (1Working+1Standby), MOC :- CI Capacity :- 10 m3/hr 2 hp Includes Related Piping,Electrical & Engineering Work	Kirloskar	Nos	2.00	33500.00	67000.00
14	Supply & Installation of Treated Water Transfer pump (1Working+1Standby) MOC :- CI Capacity :- 40 m3/hr 5 hp Includes Related Piping,Electrical & Engineering Work	Kirloskar	Nos	2.00	57200.00	114400.00
15	Supply & Installation Sludge Dewatering Machine (Bag unit) MOC :- SS Capacity :- Sutable 10-15 kg/hr Pump Capacity :- 1.5 CMH Includes Related Piping,Electrical & Engineering Work	ASP Enviro	No	1.00	330000.00	330000.00
16	Supply & Installation of Control Panel with all Cabling Type:- Semi Automation with indication lamp,Energy Meter Make. :- L & T/ Siemens (Electrical Parts) MOC :- MS Powder Coated Body Includes Related Electrical Cabling & Engineering Work Note:- All motor starter shall be provided with automatic level controller, Panels shall be treated with all anticorrosive process before painting & final approved shade of powder coated paint.Earthing terminals shall be provided.Quoted rates shall be inclusive of cables,trays,with earthing from panel to each motor/equipment.	ASP Enviro	No	1.00	336700.00	336700.00

Sr.No.	Particulars	Make	Unit	Qty	Rate	Amount
17	Supply & Installation of Electromaqnetic Flow Meter (Inlet & Outlet) Capacity - 100 w Includes Related Piping,Electrical & Engineering Work	Bss	Nos	2.00	60000.00	120000.00
18	Supply & Installation of Pressure Gauges Make - Top grp Techno Excel winiers Capacity - Sutaible as per line Includes Related Piping,Electrical & Engineering Work	WIKA	Lot	1.00	24500.00	24500.00
19	Erection & Commissioning Work, MPCB Approval Piping & Fabrication,installation of Equipments,Pumps with Suction/ Delivery Pipe line valves, stainer, air distributions systems & all Inter -Connected pipe line. (MS/UPVC/CPVC)	ASP Enviro	Job	1.00	200000.00	200000.00
20	Equipment transportation and freight charges	ASP Enviro	Lot	1.00	30000.00	30000.00
					Total Amount	3400000.00

Terms & Conditions:-

1 Vendors must include all items that are necessary & essential to provide a complete working plant to the satisfaction of engineer in charge & as per MPCB norms.No extra payabe later. Any deficiency / improvement in this WO must be brought to the knowledge of the Site Engineer

2 Payment Terms : 50% advance with workorder and 30 % against proforma invoice after material delivery balance 20% amount after completion of work

3 Agency should give an drawing & details civil work includs Tanks & Foundation.

4 After installation & Commissioning agency will deput one person for operation of plant for 3 month.

5 Training the person from MGM how to operate plant & their maintainence & entire water to be treat uo to standard parameters.

6 MPCB Approval to operate STP plant , final testing report, GA Drowing, Layout plan, P & ID, flow chart submission in Agency scope.

7 ASP technical person will visit once in 3 month(for one year)

8 Work Completion Period- 45 Days

9 After Warranty AMC 10 % with Escalation every year rs 600000/-

10 After Warranty CMC 10 % with Escalation every year rs 840000/-

11 All rectification if required will be in ASP Scope.

12 Material Quantity will be Ingrese or Decrease as per actual work on site.

13 All Fabrication work in ASP vendor Scope

14 Civil work in MGM Scope

15 Taxes as applicable extra

16 Usual TDS will be deducted from your bill.

17 All material will be provided by you.

18 You should do all work properly & with standard application.

19 All Safety measures should be taken by you while working on site


Site Engineer
MGM kamothe, Navi mumbai



Sewage treatment plant of MGM Medical College

SOP -

1. Pumping of raw water from screen chamber before that check foot valve it should be clean & clear their holes.
2. Air blower to be use to provide Oxygen in Bio reactor balancing aerobic & Anaerobic bacteria.
3. Air blowers are 2 No. operate alternately every 2 hours.
4. Operate Sludge pump after evenly three hours.
5. Operate filter pump & its valve in connection with pressure sand filter & activated carbon filter.
6. Everyday back washing of filters to avoid choking of filter media.
7. To operate ozone generator, propose circulation of ozone in final sump.
8. Excess Sludge removal to filter pressure.
9. We shall draw a sample from outlet for testing SOP, Suspended solids COD BOD one in month.

Preventive Maintenance –

1. Before operating sludge pump their foot valve should be check in shall be clean.
2. Every week check all pipes & valves all should be proper without damage valve operate smoothly.
3. Every week all motor to be check.
4. Whenever circuit breakers give trouble replace it.
5. We shall provide all kinds of Oils for retorting parts link Air blower & screw pump.
6. We shall carry out painting of mechanical equipments.
7. We shall procure all spares of mechanical Electrical for all equipments keeping it n good condition at any time.

Sewage Treatment Plant

1. Capacity –

Filtration of Sewage drainage water 400 M³/day (4, 00,000 ltrs.)

2. Design Raw Sewage water with parameter.

Sr. No.	Inlet Parameter	Units	Value
1	PH	-	6.0 to 8.0
2	BOD	Mg/l	350.0
3	COD	Mg/l	550.0
4	Total Suspended Solid	Mg/l	300.0

After complete treatment – water to be reuse for flushing & Gardening.

Sr. No.	Outlet Parameter	Units	Value
1	PH	-	7.0 to 8.0
2	BOD	Mg/l	≤ 50
3	COD	Mg/l	≤ 100
4	Total Suspended Solid	Mg/l	≤ 20

Equipment –

1) Transfer Pump –

Capacity - 20 M³/Hr. 10.0 Mtr. head

Type - Submersible – 2 Nos.

2) Filter Pump –

Capacity - 20 M³/Hr. 02 Nos.

3) Sludge Pump –

To Transfer sludge from settling tank to filter press

Capacity - 5.0M³/Hr. 55 Mtr. head – 01 No.

4) Pressure Sand Filter –

To remove suspended Solid design flow water 20 M³/Hr. – 01 No.

Type – Graded quartz sand, pebbles, gravels,

Valve – C.I. 05 Nos.

Operation – A) Service, B) Drain, C) Rinse, D) Backwash, E) Air relief valve.

5) Activated Carbon filter –

To remove colour, odour from water - 01 No.

Design flow Rate - 20 M³/Hr.

Valve type - CI valve – 5 Nos.

Operation - A) Service, B) Drain, C) Rinse, D) Backwash, E) Air relief valve.

6) Screen Chamber – Stainless steel – 01 No.

7) Ozone Generator – 03 Nos.

Ozone (O₃) is fast oxidizing agent & disinfectant ozone is an unstable molecule & Correct back to oxygen Oxidizes Volatile Organic Compounds, Oxidizes volatile organic compounds.

8) Twin Lobe Air Blower –

To supply dissolved oxygen at Biological reactor – 02 No.

Accessories – Air suction filter, silencer, pressure gauge, base frame and Non return valve.

9) Air diffuser –

To provide & distribute fine air bubbles.

10) Bio Media –

To provide suitable surface for Biomass PVC.

11) Filter Press –

To make sludge into dry condition in cake form.

TREATMENT SCHEME: SCHEME - I
STP 400.0M³/D

Raw Water From Septic Tank Outlet



Screen Chamber



Biological Reactor (aerobic)



Transfer Pump



Secondary Settling Tank



Sump



Filter Pump



Pressure Sand Filter



← Ozone Generator

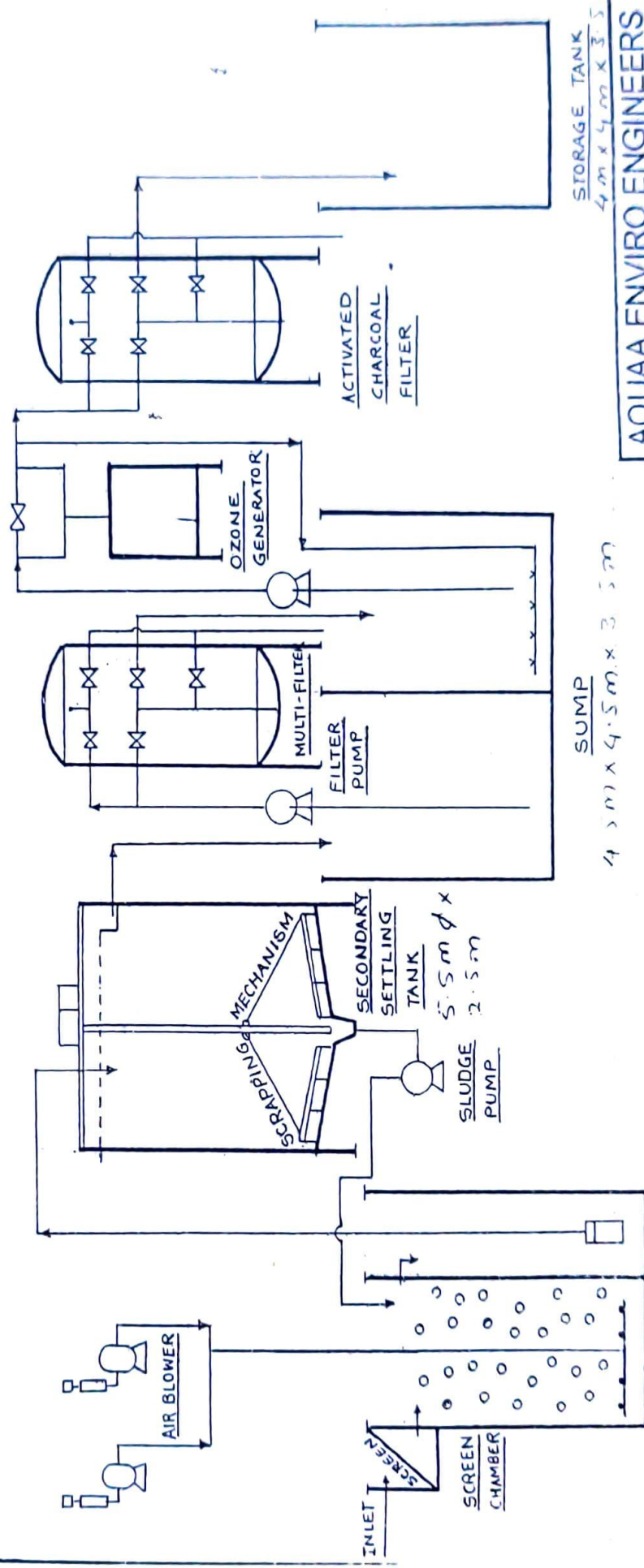
Activated Carbon Filter



Final storage tank



Disposal / Gardening / Flushing



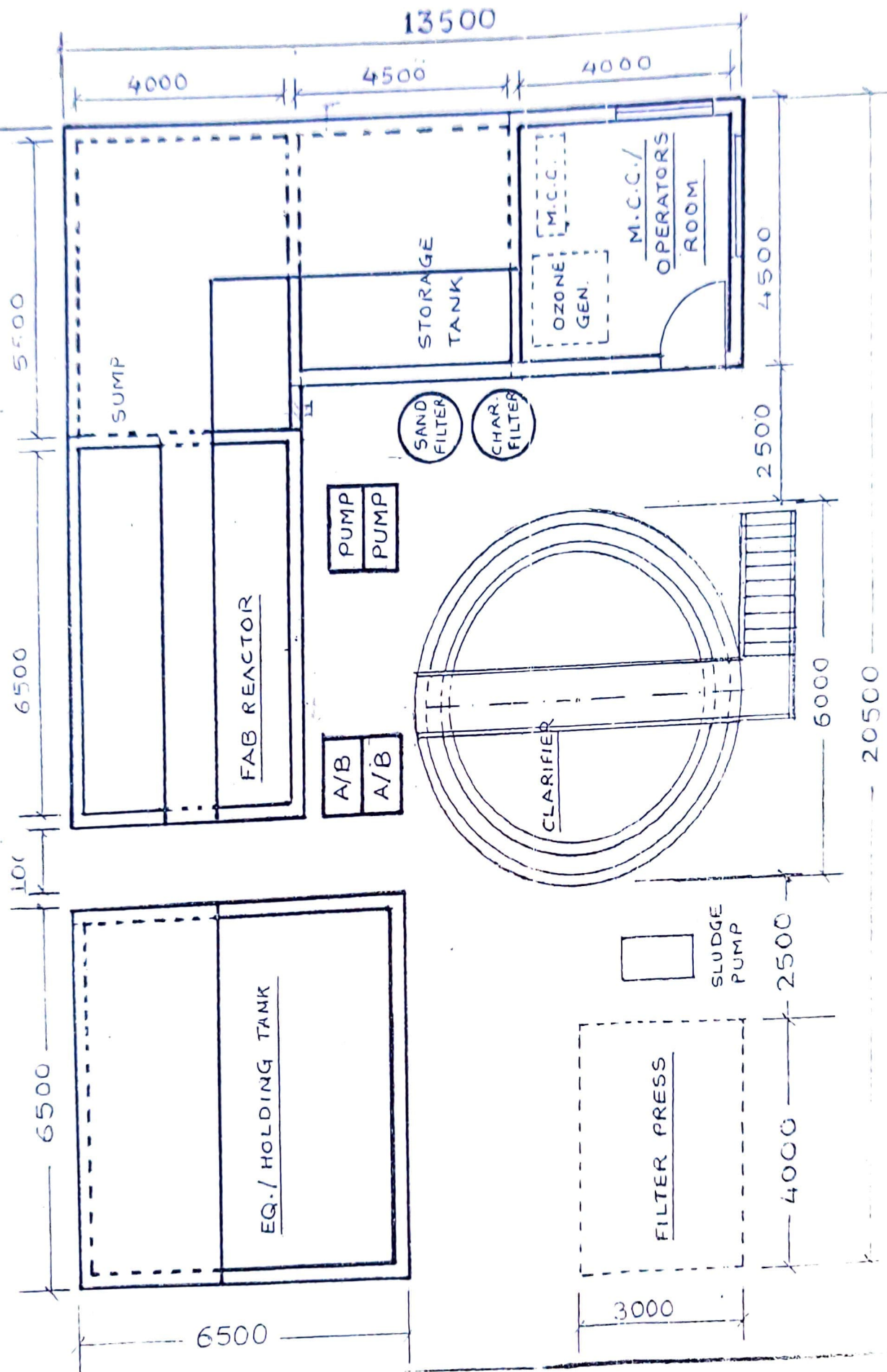
AQUAA ENVIRO ENGINEERS	
CLIENT	MGM HOSPITAL KALAMBOLI
TITLE	PROCESS FLOW DIAGRAM
PROJECT	SEWAGE TREATMENT PLANT
DRG NO	AEE/MGM/101 REV R0

BIOLOGICAL REACTOR
4m x 3.5m

SUMP
4.5m x 4.5m x 3.5m

STORAGE TANK
4m x 4m x 3.5m

1/11/2019



OZONE VS CHLORINE

	OZONE	CHLORINE
i. Toxicity	Toxic at 100 ppt	Toxic as well as poisonous gas
ii. STORAGE	No storage & transport required since produce on the spot	Storage required in Premises & in high Pressure Container
iii. USER ADVANTAGES	Does not leave any Bi-Product. Degrade all organic Substance, feel Fresh, Odor removed.	Eye irritation, strong odor. leaves pale yellow color on white surface
iv. COST	Less Expensive, high efficiency, low energy consumption (230 volts)	Cost increasing day by day, Quite expensive
v. PH	Does not require PH control	PH control required 7.0 to 7.4 for good results.
vi. Disinfection	3000 times more active in destruction of bacteria & virus. E coli is killed within 5 sec by ozone at a concentration of 1 mg/lit (Excellent)	To kill E coli chlorine requires 15000 sec (4 Hrs) at concentration of 1 mg/lit (moderate)
vii. Efficiency	High	Low
viii. Deodorization	Excellent Deodorizing Agent	Not deodorization Agent
ix. Ecology	Eco-friendly	Not Eco-friendly
x. Color Removal	Excellent	Good.
xi. Water Half Life	20 minutes	2-3 hrs.
xii. Operation Hazard	Moderate	Skin & Inhale Hazard
xiii. Recurring Cost	Low	High
xiv. Dose	Low	High
xv. Other uses	Decompose & Remove organic matter, reduce & remove detergent, Inactive viruses, Reduces Iron & manganese	Only disinfection



Ashalini Enterprise

Laboratory for Testing of Water, Foods, Soil & Chemicals

Vasant Krupa Building, 1st Floor, Uran Road, Old Panvel - 410 206.

Next to Laxmi Eye Institute, Dist. Raigad. Tel. : 022-2749 0614.

E-mail : ashalini1@yahoo.com

ANALYSIS REPORT

Name of the customer & add. : M.G.M. Medical College & Hospitals,
Kamothe.
Kind Attn. : Mr. Vaibhav.
Name of Sample with : STP Inlet Water.
Relevant details.
Quantity (gm or ml) : 1000 ml.
Sample received in : 1000 ml in plastic bottle.
Sample condition : Colourless liquid in tightly stoppered bottle.

Date: 11/02/2019
Ref. No.: 6464
Date of sample recd.: 07/02/2019
Period of analysis:
From: 07/02/2019 to 11/02/2019
ULR-TC5376190-00001424F

Sample as submitted by customer.

Parameters	Results	Units	Methods
Chemical:			
pH	7.69	-	IS:3025(Part-11-2):Reaff 2017
Total Suspended Solids	51.0	mg/lit.	IS:3025(Part -17):Reaff 2017
Chemical Oxygen Demand	313.82	mg/lit.	IS:3025(Part -58):Reaff 2017
Biochemical Oxygen Demand @ 27 ⁰ C, 3 days	90.5	mg/lit.	IS: 3025(Part -44):Reaff 2014
Oil & Grease	70.0	mg/lit.	IS:3025(Part -39-5):Reaff 2014

- Notes :
- 1) Results relate to the same tested without prejudice to its lot, source or process.
 - 2) Test report shall not be reproduced except in full without written approval of the Laboratory In charge.
 - 3) Any query related to this report will be entertained within 15 days of the report date only and the sample will be also retained for the same period.
 - 4) Our analytical findings reflect the quality of the sample at the time of testing only.
 - 5) Our liability if any arising out of the use of this test report is limited to the testing charges paid by you for testing this sample.


P.S. Dixit.
Authorised Signatory

.....End of the report.....

SAMPLE COLLECTION CENTRES

MUMBAI : Vidya Diagnostic Centre, Asha-Kunj CHS, 1st Floor, Opp. Chembur Rly. Stn., Next to Hotel Vaishali, Chembur (E), Mumbai-400 071

PUNE : Mr. D. J. Ugaonkar, "Aditya" Bunglow, 473/3, Pimple Nilakh, Aundh Camp Post, Pune-411 027. Telefax : 020 - 2727 0190

Radiation safety certificate



Case File Number: MH-25439-RF-XL-041

Issue Date: 26/06/2023

Document Number: 23-LOP-959005

Expiry Date: 26/06/2028

LICENSE FOR OPERATION OF MEDICAL DIAGNOSTIC X-RAY EQUIPMENT

In exercise of powers conferred under Section 16 and 17 as applicable of Atomic Energy Act, 1962 read in conjunction with Rule (3) of the Atomic Energy (Radiation Protection) Rules (AE(RP)R), 2004, the Atomic Energy Regulatory Board (AERB) hereby issues Licence in favour of Dr. AJIT GOVINDDAS SHROFF to operate the following diagnostic radiology equipment located at N 6 CIDCO, AURANGABAD AURANGABAD, MAHARASHTRA-431003 for Medical Diagnosis purposes.

Type of Equipment	Manufacturer	Model	Equipment Id	Equipment Serial No
Computed Tomography	FUJIFILM Healthcare Corporation, Japan	Fujifilm-Supria	G-XL-177559	

The DEAN, MAHATMA GANDHI MISSION HOSPITAL, AURANGABAD and Dr. AJIT GOVINDDAS SHROFF are hereby identified as the Employer and licensee respectively, for the purpose of assigning the responsibilities specified in the Atomic Energy (Radiation Protection) Rules, 2004, in respect of radiation protection of workers, public and environment because of operation of the above equipment.

The Employer and Licensee are responsible for,

- I. Ensuring compliance with the relevant provisions of the
 - i. Atomic Energy Act, 1962
 - ii. Atomic Energy (Radiation Protection) Rules, 2004;
 - iii. AERB Safety Code (AERB/SC/Med-2), 2001, Amendment 2012, and the revisions thereof
 - iv. All applicable Safety Codes, Guides issued by AERB for the above practice and regulatory documents issued by AERB from time to time.
 - v. Directives issued by Competent Authority from time to time.
- II. Ensuring compliance with terms and conditions stated overleaf.

Note:

This Licence is issued ONLY from the RADIATION SAFETY VIEW POINT. All other clearances shall be obtained from concerned state/central/local authorities as applicable.

This is computer generated copy. Hence no signature required.

DR. AJIT GOVINDDAS SHROFF
MAHATMA GANDHI MISSION HOSPITAL,
N 6 CIDCO AURANGABAD,
AURANGABAD-431003
MAHARASHTRA

Dr. P. K. Dash Sharma
Head, RSD
(Issuing Authority)



परमाणु ऊर्जा नियामक परिषद्, नियामक भवन, अणुशक्तिनगर, मुंबई 400094 (महाराष्ट्र)
Atomic Energy Regulatory Board, Niyamak Bhavan, Anushaktinagar, Mumbai 400094 (Maharashtra)



Case File Number: MH-25439-RF-XR-028

Issuance Date: 06/12/2022

Document Number: 19-RLXE-416525

Expiry Date: 06/12/2027

REGISTRATION FOR OPERATION OF MEDICAL DIAGNOSTIC X-RAY EQUIPMENT

In exercise of powers conferred under Section 16 and 17 as applicable of Atomic Energy Act, 1962 read in conjunction with Rule (3) of the Atomic Energy (Radiation Protection) Rules (AE(RP)R), 2004, the Atomic Energy Regulatory Board (AERB) hereby issues **Registration** in favour of Dr. AJIT SHROFF to operate the following medical diagnostic x-ray equipment located at MAHATMA GANDHI MISSION HOSPITAL, N 6 CIDCO, AURANGABAD AURANGABAD, MAHARASHTRA-431003 for medical diagnostic purpose.

Type of Equipment	Manufacturer	Model	Equipment ID
Radiography and Fluoroscopy	M/s. Allengers Medical Systems Limited	MARS 50 +	G-XR-106674

The **DEAN, MAHATMA GANDHI MISSION HOSPITAL, AURANGABAD** and **DR. AJIT SHROFF** are hereby identified as the Employer and licensee respectively, for the purpose of assigning the responsibilities specified in the Atomic Energy (Radiation Protection) Rules, 2004, in respect of radiation protection of workers, public and environment because of operation of the above equipment.

The Employer and Licensee are responsible for,

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 - ii. Atomic Energy (Radiation Protection) Rules, 2004;
 - iii. AERB Safety Code (AERB/SC/Med-2), 2001, Amendment 2012, and the revisions thereof
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- II. Ensuring compliance with terms and conditions stated overleaf.

Note:

This Registration is issued ONLY from the RADIATION SAFETY VIEW POINT. All other clearances shall be obtained from concerned state/central/local authorities as applicable.

DR. AJIT SHROFF

MAHATMA GANDHI MISSION HOSPITAL
N 6 CIDCO, AURANGABAD
AURANGABAD, MAHARASHTRA-431003

Copy to: DEAN, MAHATMA GANDHI MISSION HOSPITAL, AURANGABAD

Dr. P. K. Dash Sharma
Head, RSD

Note: This document is also available at www.aerb.gov.in/elora

परमाणु ऊर्जा नियामक परिषद्, नियामक भवन, अणुशक्तिनगर, मुंबई 400094 (महाराष्ट्र)
Atomic Energy Regulatory Board, Niyamak Bhavan, Anushaktinagar, Mumbai 400094 (Maharashtra)



Case File Number: MH-25439-RF-XR-038

Document Number: 23-LOP-930270

Issue Date: 21/04/2023

Expiry Date: 21/04/2028

REGISTRATION FOR OPERATION OF MEDICAL DIAGNOSTIC X-RAY EQUIPMENT

In exercise of powers conferred under Section 16 and 17 as applicable of Atomic Energy Act, 1962 read in conjunction with Rule (3) of the Atomic Energy (Radiation Protection) Rules (AE(RP)R), 2004, the Atomic Energy Regulatory Board (AERB) hereby issues Registration in favour of DR. AJIT SHROFF to operate the following diagnostic radiology equipment located at N 6 CIDCO, AURANGABAD AURANGABAD, MAHARASHTRA-431003 for Medical Diagnosis purposes.

Type of Equipment	Manufacturer	Model	Equipment Id
Radiography (Fixed)	DRGEM CORPORATION, Korea	FDR Smart FGX 52-S	G-XR-176814

The DEAN, MAHATMA GANDHI MISSION HOSPITAL, AURANGABAD and DR. AJIT SHROFF are hereby identified as the Employer and licensee respectively, for the purpose of assigning the responsibilities specified in the Atomic Energy (Radiation Protection) Rules, 2004, in respect of radiation protection of workers, public and environment because of operation of the above equipment.

The Employer and Licensee are responsible for,

- I. Ensuring compliance with the relevant provisions of the
 - i. Atomic Energy Act, 1962
 - ii. Atomic Energy (Radiation Protection) Rules, 2004;
 - iii. AERB Safety Code (AERB/SC/Med-2), 2001, Amendment 2012, and the revisions thereof
 - iv. All applicable Safety Codes, Guides issued by AERB for the above practice and regulatory documents issued by AERB from time to time.
 - v. Directives issued by Competent Authority from time to time.
- II. Ensuring compliance with terms and conditions stated overleaf.

Note:

This Registration is issued ONLY from the RADIATION SAFETY VIEW POINT. All other clearances shall be obtained from concerned state/central/local authorities as applicable.

DR. AJIT SHROFF, DEAN
MAHATMA GANDHI MISSION HOSPITAL
N 6 CIDCO, AURANGABAD
AURANGABAD, MAHARASHTRA-431003

Dr. P. K. Dash Sharma
Head, RSD

CC: DEAN, MAHATMA GANDHI MISSION HOSPITAL, AURANGABAD

Note: This document is also available at www.aerb.gov.in/elora



परमाणु ऊर्जा नियामक परिषद्, नियामक भवन, अणुशक्तिनगर, मुंबई 400094 (महाराष्ट्र)
Atomic Energy Regulatory Board, Niyamak Bhavan, Anushaktinagar, Mumbai 400094 (Maharashtra)



Case File Number: MH-25439-RF-XR-036

Issue Date: 21/04/2023

Document Number: 23-LOP-930265

Expiry Date: 21/04/2028

REGISTRATION FOR OPERATION OF MEDICAL DIAGNOSTIC X-RAY EQUIPMENT

In exercise of powers conferred under Section 16 and 17 as applicable of Atomic Energy Act, 1962 read in conjunction with Rule (3) of the Atomic Energy (Radiation Protection) Rules {AE(RP)R}, 2004, the Atomic Energy Regulatory Board (AERB) hereby issues Registration in favour of DR. AJIT SHROFF to operate the following diagnostic radiology equipment located at N 6 CIDCO, AURANGABAD AURANGABAD, MAHARASHTRA-431003 for Medical Diagnosis purposes.

Type of Equipment	Manufacturer	Model	Equipment Id
Radiography (Fixed)	DRGEM CORPORATION, Korea	FDR Smart FGX 52-S	G-XR-176809

The DEAN, MAHATMA GANDHI MISSION HOSPITAL, AURANGABAD and DR. AJIT SHROFF are hereby identified as the Employer and licensee respectively, for the purpose of assigning the responsibilities specified in the Atomic Energy (Radiation Protection) Rules, 2004, in respect of radiation protection of workers, public and environment because of operation of the above equipment.

The Employer and Licensee are responsible for,

- I. Ensuring compliance with the relevant provisions of the
 - i. Atomic Energy Act, 1962
 - ii. Atomic Energy (Radiation Protection) Rules, 2004;
 - iii. AERB Safety Code (AERB/SC/Med-2), 2001, Amendment 2012, and the revisions thereof
 - iv. All applicable Safety Codes, Guides issued by AERB for the above practice and regulatory documents issued by AERB from time to time.
 - v. Directives issued by Competent Authority from time to time.
- II. Ensuring compliance with terms and conditions stated overleaf.

Note:

This Registration is issued ONLY from the RADIATION SAFETY VIEW POINT. All other clearances shall be obtained from concerned state/central/local authorities as applicable.

DR. AJIT SHROFF, DEAN
MAHATMA GANDHI MISSION HOSPITAL
N 6 CIDCO, AURANGABAD
AURANGABAD, MAHARASHTRA-431003

Dr. P. K. Dash Sharma
Head, RSD

C: DEAN, MAHATMA GANDHI MISSION HOSPITAL, AURANGABAD

Note: This document is also available at www.aerb.gov.in/elora



परमाणु ऊर्जा नियामक परिषद्, नियामक भवन, अणुशक्तिनगर, मुंबई 400094 (महाराष्ट्र)
Atomic Energy Regulatory Board, Niyamak Bhavan, Anushaktinagar, Mumbai 400094 (Maharashtra)



Case File Number: MH-25439-RF-XR-015

Issuance Date: 30/12/2020

Document Number: 15-LOEE-75105

Expiry Date: 30/12/2025

REGISTRATION FOR OPERATION OF MEDICAL DIAGNOSTIC X-RAY EQUIPMENT

In exercise of powers conferred under Section 16 and 17 as applicable of Atomic Energy Act, 1962 read in conjunction with Rule (3) of the Atomic Energy (Radiation Protection) Rules {AE(RP)R}, 2004, the Atomic Energy Regulatory Board (AERB) hereby issues **Registration** in favour of Dr. AJIT SHROFF to operate the following medical diagnostic x-ray equipment located at MAHATMA GANDHI MISSION HOSPITAL, N 6 CIDCO, AURANGABAD AURANGABAD, MAHARASHTRA-431003 for medical diagnostic purpose.

Type of Equipment	Manufacturer	Model	Equipment ID
Mammography	M/s. Allengers Medical Systems Limited	MAM- VENUS	G-XR-43184

The DEAN, MAHATMA GANDHI MISSION HOSPITAL, AURANGABAD and DR. AJIT SHROFF are hereby identified as the Employer and licensee respectively, for the purpose of assigning the responsibilities specified in the Atomic Energy (Radiation Protection) Rules, 2004, in respect of radiation protection of workers, public and environment because of operation of the above equipment.

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 - iii. AERB Safety Code (AERB/SC/Med-2), 2001, Amendment 2012, and the revisions thereof
 - iv. All applicable Safety Codes, Guides issued by AERB for the above practice and regulatory documents issued by AERB from time to time.
 - v. Directives issued by Competent Authority from time to time.
- II. Ensuring compliance with terms and conditions stated overleaf.

Note:

This Registration is issued ONLY from the RADIATION SAFETY VIEW POINT. All other clearances shall be obtained from concerned state/central/local authorities as applicable.

DR. AJIT SHROFF

MAHATMA GANDHI MISSION HOSPITAL
N 6 CIDCO, AURANGABAD
AURANGABAD, MAHARASHTRA-431003

Copy to: DEAN, MAHATMA GANDHI MISSION HOSPITAL, AURANGABAD

Dr. P. K. Dash Sharma
Head, RSD

Note: This document is also available at www.aerb.gov.in/elora



परमाणु ऊर्जा नियामक परिषद्, नियामक भवन, अनुशक्तिनगर, मुंबई 400094 (महाराष्ट्र)
Atomic Energy Regulatory Board, Niyamak Bhavan, Anushaktinagar, Mumbai 400094 (Maharashtra)



Case File Number: MH-25439-RF-XR-015

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Document Number: 15-LOEE-75105

Expiry Date: 30/12/2025

REGISTRATION FOR OPERATION OF MEDICAL DIAGNOSTIC X-RAY EQUIPMENT

In exercise of powers conferred under Section 16 and 17 as applicable of Atomic Energy Act, 1962 read in conjunction with Rule (3) of the Atomic Energy (Radiation Protection) Rules {AE(RP)R}, 2004, the Atomic Energy Regulatory Board (AERB) hereby issues **Registration** in favour of Dr. AJIT SHROFF to operate the following medical diagnostic x-ray equipment located at MAHATMA GANDHI MISSION HOSPITAL, N 6 CIDCO, AURANGABAD AURANGABAD, MAHARASHTRA-431003 for medical diagnostic purpose.

Type of Equipment	Manufacturer	Model	Equipment ID
Mammography	M/s. Allengers Medical Systems Limited	MAM- VENUS	G-XR-43184

The DEAN, MAHATMA GANDHI MISSION HOSPITAL, AURANGABAD and DR. AJIT SHROFF are hereby identified as the Employer and licensee respectively, for the purpose of assigning the responsibilities specified in the Atomic Energy (Radiation Protection) Rules, 2004, in respect of radiation protection of workers, public and environment because of operation of the above equipment.

The Employer and Licensee are responsible for,

- I. Ensuring compliance with the relevant provisions of the
 - i. Atomic Energy Act, 1962
 - ii. Atomic Energy (Radiation Protection) Rules, 2004;
 - iii. AERB Safety Code (AERB/SC/Med-2), 2001, Amendment 2012, and the revisions thereof
 - iv. All applicable Safety Codes, Guides issued by AERB for the above practice and regulatory documents issued by AERB from time to time.
 - v. Directives issued by Competent Authority from time to time.
- II. Ensuring compliance with terms and conditions stated overleaf.

Note:

This Registration is issued ONLY from the RADIATION SAFETY VIEW POINT. All other clearances shall be obtained from concerned state/central/local authorities as applicable.

DR. AJIT SHROFF

MAHATMA GANDHI MISSION HOSPITAL
N 6 CIDCO, AURANGABAD
AURANGABAD, MAHARASHTRA-431003

Copy to: DEAN, MAHATMA GANDHI MISSION HOSPITAL, AURANGABAD

Dr. P. K. Dash Sharma
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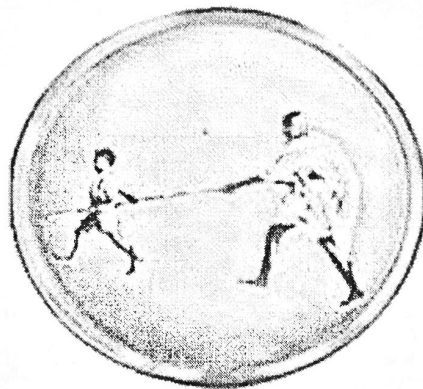


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Atomic Energy Regulatory Board, Niyamak Bhavan, Anushaktinagar, Mumbai 400094 (Maharashtra)

E Waste

Standard Operating Procedure for E-Waste (IT Scrap) Disposal

Issue No. 01





MGM Institute of Health Sciences

MGM Campus, Sector 1, Kamothe, Navi Mumbai-410209

www.mgmuhs.com

Document Details	
Issue Number:	01
Release date:	
MS Word file name:	MGMIHSewaste_disposalSOP.docx
Document Prepared By:	IT Manager, MGMIHS

Revision History		
Revision Number	Release Date	Brief Description or Notes

Approvals		
Department	Name & Designation	Sign with Date
University	Dr. Shashank Dalvi Vice Chancellor	 4/6/19
University	Dr. Rajesh B Goel Registrar	 4/6/19.

Document Summary
This document defines a Standard Operating Procedure for E Waste Disposal being followed in MGMIHS and its constituent colleges. It also mentions the applicable policies, standards and documents.

Document Release Note
This document is released for use in MGM Institute of Health Sciences and its Constituent Units.

1. Purpose

This Document briefs the disposal process of non-functioning of IT assets (E-Waste), and guidelines to be followed at MGMIHS and its constituent units.

2. Scope

This process will be deployed and sustained at MGM Institute of Health Sciences and its constituent units in both of its campuses located in Navi Mumbai and Aurangabad.

3. Procedure

- All the users from other departments raises the request to IT department for troubleshooting the problematic IT assets such as desktops, laptops, servers, printers etc.
- Based on the Service Request, the Hardware Technicians from IT Department identifies that whether respective asset is Working or Not.
- If the respective asset is found to be working or repairable, then it is kept for maintenance purposes
- In case the IT asset is more than 7 years and not repairable, then the System Administrator verifies in details and submits the report to respective authorities after labelling it as Scrap. The same is reported to IT manager also
- IT Manager consolidates the IT scraps (e-waste) of all departments and submits the consolidated list to the Medical Director, MGM for e-waste disposal.
- Based on the approval from the Medical Director, MGM; IT Manager raises the purchase request for IT scrap disposal with Stores Department.
- The Stores Department calls the quotations from the Authorized vendors for IT scrap disposal and receive the proposals from Vendors.
- The Stores department negotiates with the vendors and shortlists the appropriate vendor for IT scrap disposal in presence of Finance Officer.
- The IT Manager then handovers the IT Scrap (e-waste) to the shortlisted vendor and sends the IT scrap to vendor's e-waste hub.

4. Responsibilities

IT Manager is responsible for consolidating the IT Scrap and coordinate for disposal of IT scrap to shortlisted vendor as per the Stores Department.

5. Flow chart

Process Flow chart

E- Waste Management – Process

