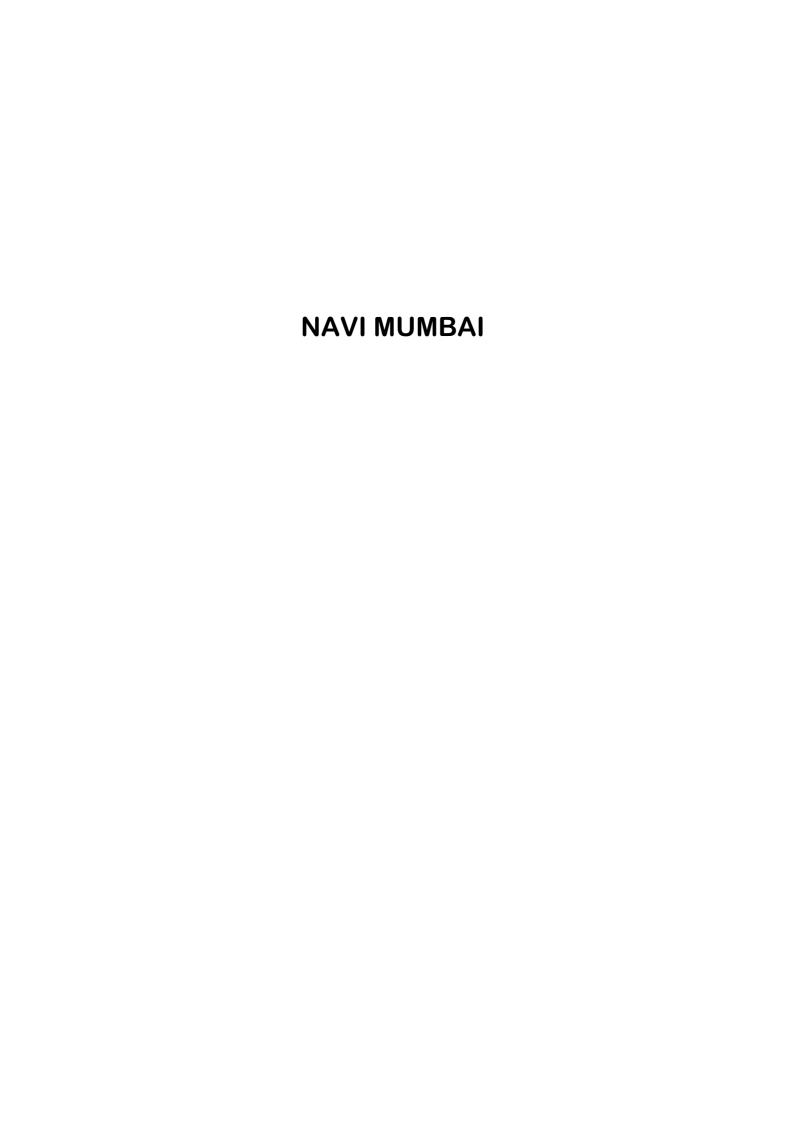
# **Environmental Internal Audit Report**



# ertificate

### MGM Institute of Health Sciences

MGM Educational Campus, Sector 1, Kamothe, Kalamboli, Navi Mumbai. Maharashtra- 410209, India

And hereby declares that the organization is in conformance with:

ISO 14001: 2015

For the following scope of activities:

### **Education Institute and Hospital Courses**

Further clarification regarding the scope of this certificate and the applicability of Environmental Management standard requirements (Energy Audit/ Green Audit) may be obtained by contacting the organization

Certificate No. UQSR-1450-IVIIHS

Current Issue Date: 07th Oct.

Original Issue Date: 07th Oct. 2019

Issue No. 01 IAF Code: 37

Expiry Date: 07th Sep. 2020

Recertification Date: 07th Sep. 2022\*

<sup>\*</sup> Validity of certificate is subjected to the continued satisfactory performance during surveillance audit









Authorized By

Certification Manager

**UQSR Global Private Limited** 

Formerly known as

Universal Quality Standards Registrar www.ugsr.org

For information concerning validity of certificate, you can visit the site: www.uqsr.org

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## Management System Certification Stage 2 Audit Report

MGM Institute of Health Sciences								
3rd Floor, MGM Medical College, Sector -01 Kamothe, Navi Mumbai								
ISO 14001:2015								
Dr Rajesh Goel								
3rd Floor, MGM Medical	College, Sector -01 Kamothe, N	avi Mumbai						
37	Date(s) of audit(s):	18/09/2019						
Mr. Amit Kumar	Additional team member(s):							
	3rd Floor, MGM Medical ISO 14001:2015 Dr Rajesh Goel 3rd Floor, MGM Medical 37	3rd Floor, MGM Medical College, Sector -01 Kamothe, N. ISO 14001:2015  Dr Rajesh Goel  3rd Floor, MGM Medical College, Sector -01 Kamothe, N. 37  Date(s) of audit(s):  Mr. Amit Kumar  Additional team						

### 1. Audit objectives

The objectives of this audit were:

to confirm that the management system has been planned to conform with all the requirements of the audit standard;

To collect information and evidence about conformity to all requirements of the applicable management system standard or other normative document;

To check performance monitoring, measuring, reporting and reviewing against key performance objectives and targets (consistent with the expectations in the applicable management system standard or other normative document);

To check the client's management system and performance as regards legal compliance;

To check operational control of the client's processes;

To check internal auditing and management review;

To check management responsibility for the client's policies;

To check links between the normative requirements, policy, performance objectives and targets (consistent with the expectations in the applicable management system standard or other normative document), any applicable legal requirements, responsibilities, competence of personnel, operations, procedures, performance data and internal audit findings and conclusions.

### 2. Audit scope: Educational Institute and Teaching Hospital

For multi-site audits an Appendix listing all relevant sites and/or remote locations has been established (attached) and agreed with the client

### 3. Audit findings

None identified



### 4. Critical audit findings

The following findings, if not appropriately addressed, certificate cannot be issued without proper closure.

None identified

### 5. Audit Conclusions

The Stage 2audit was successful in meeting the stated objectives:

Yes

The stage 2audit was limited in time and scope to the stated objectives and it is possible that additional weaknesses will be identified during future audit activities. With consideration to the findings identified in section 3 and 4 of this report, the overall conclusions of the audit area follows:

The management system has been implemented to conform with all the requirements of the audited standard Yes

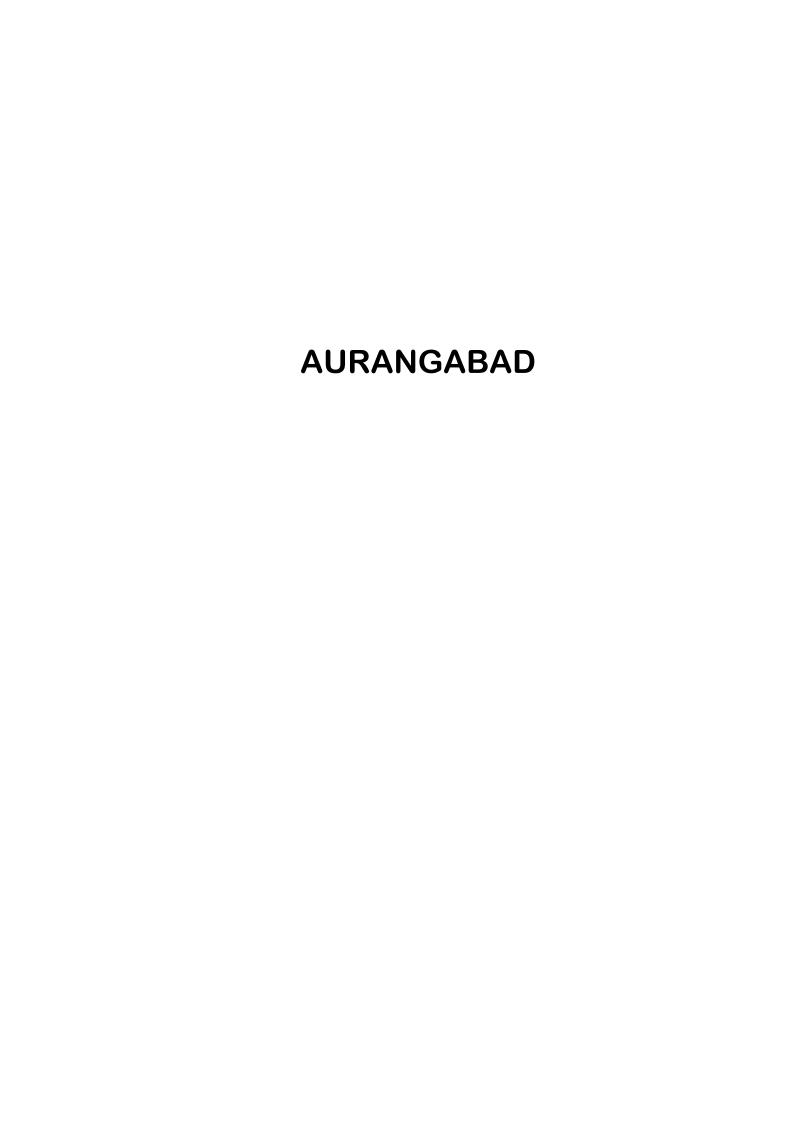
The management system is designed to achieve the organization's policy objectives

Yes

Based on the information provided, the system is designed to identify and manage compliance with statutory, regulatory and contractual requirements:

The certificate should be issued Yes





# Environmental Internal Audit Report

### For MGM's College & Hospital

Environmental audit is undertaken to promote the Environmental Management and Conservation at college and hospital campus.

Due to ongoing COVID-19 pandemic situation, this internal audit has been conducted. The purpose of this internal audit is to identify, quantify, describe and prioritize framework of environmental sustainability in compliance with the applicable regulations, policies and standards.

Report Prepared & Submitted by:

Dr. Sukhmeen Kaur, Chairperson, Environment management cell.

Environmental Internal Audit Report For MGM Medical College & Hospital, Aurangabad

### Introduction

### Introduction

Due to ongoing Pandemic situation, environmental audit by external agency could not be feasible. Hence, an internal audit was carried out for environmental audit for MGM campus at Aurangabad.

### 1.1 Energy Management

### **Audit Observation**

Energy source utilized by the campus is electricity and solar energy. The *Annexure-II* show the units consumption from electricity sourced from Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL) and from own solar power grid.

Following energy conservation measures are undertaken by the management;

- Maximizing usage of natural light during the day through passages and corridors;
- Turning off office equipment, fans and air-conditioners during unoccupied hours;
- Replacing regular tubes and bulbs by LEDs.
- Educating people about reasonable and efficient usage of water heaters and other electrical appliances;
- Plugging air leakages in air-conditioned rooms such as office spaces, operation theatre;
- Turning off water pumps when the tanks filled up;
- Cleaning of tube-lights/bulbs to be done periodically, to remove dust over it.
- Catchy campaigns that made use of easy to remember slogans; Use of various communication tools such as posters at strategic locations to inform staff of the steps that can be taken to conserve energy and minimize wastage
- Installation of Lighting controls including timers and occupancy sensors
- Use of Variable Speed Drives (VSD)
- Upgrades to Heating Ventilation Air-Conditioning and Cooling (HVAC) –

- Dampers, actuators and controls
- Voltage Regulation Units (VRUs)
- Demand response management
- Building Automation and sealing

### **1.2** Air Environment

### **Audit Observation**

In order to maintain ambient air quality as per norms laid down by Central Pollution Control Board following precautions are taken by the management;

- Roads inside campus are tarred and concreted.
- Well-developed green belt is maintained.
- Roads are frequently cleaned and watered.
- All civil work / repair work is done with proper cladding.
- Material movement is done in closed trucks.
- Only PUC certified vehicles are allowed in the campus.

The hospital is taking following steps to improve the Indoor Air Quality.

- The facility staff has been instructed to use proper masks and gloves while handling patients and follow all hygiene protocol designated & facilitated for them.
- The hospital has awarded housekeeping contract to experienced agency (Bharat Vikas Group).
- Protocols for housekeeping as per the various departments of hospital are fixed and critically followed. The company carrying out these works is ISO certified and few documents related to protocols, check points, recruitment of staff for housekeeping are enclosed as *Annexure III*.
- Adequate ventilation and illumination are provided as per standards and proper humidity is maintained.
- HVAC system is provided to maintain proper quality is wards, operation theatres, and various departments.
- Differential Pressure controls are maintained as per standards.

### 1.4 Waste generation and Management

### **Audit Observation**

- As per the BMW rules, the biomedical waste from the hospital campus is categorized in four categories. It is then sorted out and stored in dedicated containers with Yellow, White, Red and Blue colour.
- The category wise waste is weighted, documented and collected daily by the Authorized facility operator for scientific disposal.
- A system of gate pass is maintained at the time of handling over waste to the
   Authorized representative of facility operator
- The records of daily waste generation and disposal are maintained by the concerned department.
- A sample copy of documentation maintained is enclosed as **Annexure IV.**
- The management of the hospital campus has entered into agreement with M/s Green
   E-Bin Electronic Waste Solutions Pvt Ltd., for disposal of E Waste generated from the hospital and college campus.
- The E Waste is handed over to the authorized recycler and E Waste Manifest (form 6) is prepared as per the rules of E Waste rules.
- Due to COVID- 19 pandemic, E-waste has not been disposed since March 2020.
- The biodegradable waste from the whole campus consisting of food waste, tree leaves, lawn cuttings is converted into bio compost by use of 7 tank process and a special microbial culture. The bio compost is used as manure for green belt in the campus.

### 1.5 Water Requirement and Management

### **Audit Observation**

 The hospital and hostel need fresh water for various purposes which is sourced from Aurangabad Municipal Corporation and in case of non-availability the water is purchased through tankers from reputed agencies. The water consumption figures for the last one year are enclosed as *Annexure- V*.

- The hospital has received consent to operate under water Act 1974, Air Act 1981, Authorization under rule 5 of the Hazardous Wastes (M, H & T M) rules 2016 and Biomedical Waste Management rules 2016 from Maharashtra Pollution Control Board (Ref. Number Format 1.0/BO/UAN No. 62150 / CAC-1906001274 dated 25th June 2019 valid up to 31st Dec 2023). The copy of same is enclosed as Annexure- VI.
- The hospital has provided state of art sewage and trade effluent treatment plant. The
  management is carrying out 3rd party testing for trade effluent and domestic effluent.
  The untreated and treated trade and domestic effluents are tested on monthly basis
  through this third party which is NABL and MOEFCC accredited. A copy of report is
  enclosed as *Annexure-VII*.
- The schematic diagram of ETP and STP is enclosed as an Annexure- VIII.
- Storm water management system has been designed for peak rainfall of 100 mm. The
  network of storm water drains throughout the campus ensure that there is no flood
  like situation in the campus during peak rainfall.
- Rain water harvesting is also practised and the water obtained is used for landscaping,
   play fields and tropical forest through drip irrigation system.
- The work done for rain water harvesting and storm water management is under supervision of M/s Space Forum Architects Pvt. Ltd. The certificate and drawing in this respect are enclosed as *Annexure-IX*.

### 1.6 Fire Safety

### **Audit Observation**

- Provision of Full fledge fire detection, fire hydrant and fire extinguisher's system as
  per the requirement. Aurangabad Municipal Corporation has issued Final Fire NOC to
  the campus wide their letter dated 21 Mar 2017 with Ref. number
  AMC/FIRE/1184/2017. The same is enclosed herewith as Annexure.
- Disaster Management Plan for the whole campus is in place. (Ref. Doc No. –
   MAN/MGM/COP 4 dated 19 Nov 2016)
- Regular fire drills and trainings are undertaken and records are maintained. However,
   due to COVID 19 pandemic situation, fire drill was not conducted since March 2020.

- Fire escape plan are displayed at various locations. The appropriate type and several
  fire extinguishers have been installed according to the kind of fire that could take place
  in areas like Kitchen, MRI, Electrical room, data centre area, etc.
- The organization has appointed Fire Safety Officer-in-charge of all concerns related to Fire Prevention & Safety.

### 1.7 Patient and Staff Safety

### **Audit Observation**

- Various safety related SOP's like Smoking Limitation Policy, Radiation Safety Program, safety in pathology and Microbiology labs, management of hazardous material, safety related to medical gases, needle handling policy, disinfection and decontamination protocols and incident reporting are in place.
- Safety related quality indicators are fixed for various mock drills, incidences of falls in hospital, number of sentinel events and critical equipment down time.
- The hospital has well laid protocols and procedures for radiation safety.
- In case of handling of equipment's like MRI/CT Scan/X-Ray, following precautions are taken;
  - Machine Rooms are isolated Properly from surrounding with key locking door.
  - Technician is properly trained.
  - All warning signs are displayed in waiting area.
  - Periodical QA is performed for machines.
- The hospital management is taking effective steps related to infection control:
  - Education and training to staff
  - Surveillance of infection
  - well defined Policies, procedures, and guidelines
  - Conducting regular Audit's.
  - Regular Monitoring of hospital hygiene

### 1.8 Noise / Aesthetics / Social Environment

### **Audit Observation**

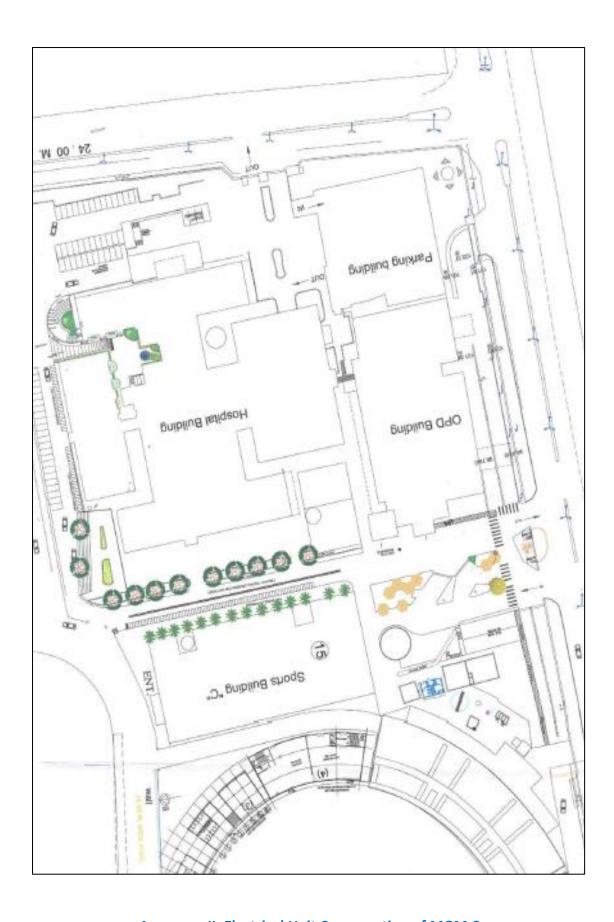
- To overcome the problem of noise within hospitals, following preventive procedures are being carried out.
- A regular check and maintenance to all systems.
- Regular Monitoring of noise levels.
- Acoustic enclosure to high noise machine like DG set.
- The hospital campus has provided 30% of total area for green belt and open spaces.
   Various types of trees (@ 1500) are plated in the campus and treated sewage is being used for green belt development.
- Various CSR activities are carried out by the hospital like
  - Medical camps
  - Free Medicines to the needy
  - Free food and Treatment to poor patients
  - Awareness programs for Breast Feeding.
- Various staff welfare activities are undertaken such as Charity Card, Salary Advance,
   Sports Complex Facilities, Diwali Gifts and MGM Society benefits like loan, LIC,
   emergency cash can be availed in it

### 1.9 Conclusion of Study

An internal Environmental Audit was carried out by Environment Management Cell chaired by Dr. Sukhmeen Kaur covering various aspects. The audit included field visit, verifications of documentation and discussions with concerned. The MGM Hospital and College Campus is meeting to all regulatory requirements applicable to them.

# Annexures

**Annexure I: Lay out of Campus** 



**Annexure II: Electrical Unit Consumption of MGM Campus** 

			2019				
Month	MSEB Unit Import	Solar unit Generation	Totoal generation MSEB+SOLAR	Solar unit Export	Total Consumption		
Jan-19	153720	67127	220847	743	220104		
Feb-19	153997	60524	214521	758	213763		
Mar-19	194527	91718	286245	863	285382		
Apr-19	255262	78536	333798	8	333790		
May-19	275063	91650	366713	0	366713		
Jun-19	287603	69010	356613	0	356613		
Jul-19	265717	58064	323781	128	323653		
Aug-19	260513	54808	315321	105	315216		
Sep-19	252975	52992	305967	233	305734		
Oct-19	225502	57473	282975	923	282052		
Nov-19	202635	63627	266262	135	266127		
Dec-19	199124	51071	250195	30	250165		
	2726638	796600	3523238	3926	3519312		

			202	20			
Month Unit Import		Solar unit Generation	MSEB Unit(KVAH) CONSUMPT ION	Totoal generation MSEB+SOLAR	Solar unit Export	Total Consumption	
Jan-20	173873	59805		233678	345	233333	
Feb-20	175327	64204		239531	735	238796	
Mar-20	172829	81850		254679	1231	253448	
Apr-20	179910	81451	181178	261361	600	260761	
May-20	207644	85830	208269	293474	180	293294	
Jun-20	212910	64465	213551	277375	383	276992	
Jul-20	235229	66582	235937	301811	481	301330	
Aug-20	243547	51444	244525	294991	248	294743	
Sep-20	233993	63826	234933	297819	450	297369	
Oct-20	229748	63778	230439	293526	105	293421	
Nov-20	169725	62412	170065	232137	428	231709	
Dec-20	186135	60087	186508	246222	323	245899	
	2420870	805734	1905405	3226604	5509	3221095	

			2021			
Month	MSEB Unit Import	Solar unit Generation	MSEB Unit(KVAH) CONSUMPT ION	Totoal generation MSEB+SOLAR	Solar unit Export	Total Consumption
Jan-21	197250	59377	197645	256627	225	256402
Feb-21	172080	64677	172425	236757	233	236524
Mar-21	220853	77503	221074	298356	30	298326
Apr-21	247005	76133	247252	323138	8	323130
May-21	275588	74010	276140	349598	0	349598
Jun-21	251573	65975	252077	317548	7.5	317540.5
Jul-21	246915	56872	247304	303787	106	303681
Aug-21	233565	53269	233868	286834	165	286669
Sep-21	242220	47153	242949	289373	188	289185
Oct-21				0		0
Nov-21				0		0
Dec-21						0
	2087049	574969	2090734	2662018	962.5	2661055.5

Annexure III: Documents related to Protocol, Check points, recruitment of staff for Housekeeping

			BVG	INDIA LTD						
PARTICULAR	MR	RNG	G	ER	E	VE	N	IG		
HOUSEKEEPING	8	32		6	4	5	24			
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE		
	35	47	6	0	15	30	12	12		
C BUILDING	5			2		0		0		
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE		
	5 0		1	1 1		0	0	0		
PATIENT CARE	7	2	93		7	0	68			
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE		
	42	30	50	43	34	36	32	36		
SUPERVISOR'S	(	6		2	:	3	2			
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE		
	5	1	1	1	3	0	2	0		

bvg		BVG INDIA LTD	
manity ahead	HOUSEKEER	PING 2ND SHIFTSUPERVISOR JOB CARD	
Sr NO.	TIME	ACTIVITY	REMARK
1	1245PM TO 01.00PM	TOTAL EMPLOYEES BRIEFING	
2	01.00PM TO 01.15PM	DEPLOYMENT & MATERIAL DISTRIBUTION	
3	01.15PM TO 02.00PM	ALL EMPLOYEES CHECKING IN WARD ARE PRASENT.	
4	02.00PM TO 04.00PM	1 ) ALL WARD & WARD WASHROOM & GANERAL WASHROOM CLEANING CHEKING	
5	05.00PM TO 05.30PM	LUNCH TIME	
6	05.30PM TO 06.15PM	PERSONAL ROUND TO ALL FLOOR CLEANING CHEKING	
7	06.15AM TO 08.45PM	ALL CLIENT ROUND ISSUE POINT ARE CLEAR WITH CHECK LIST SING.	
8	08.45.PM TO 09.00PM	TOTAL DAY ARE COMPLENT AND ISSUE ARE BRIEFING	
9	09.00 TO 09.30	TOTAL CHECKLIST (GROUMING, BRIEFFING, MACHINE UTILIZITION, HAND OVER TAKE OVER) AND ATTENDANCE ARE COPMLEDED	

### Annexure IV: Sample Documentation maintained for BMW

Blo Me	(See rule 13) dical Waste Annual Return for the Cal	ender Year - 2020			
Application Type: HCF	Calender Year 2020	Submit To SRO-Aurangabad I			
Member of CBMWTF: Yes					
ype of Health Care Facility Bedded					
L) Particulars					
) First Name Or. Rajendra	II) Middle Name Brijmohan	III) Last Name Bohra			
iv) Designation DEAN	v) Aadhaar No 514010698266	vI) PAN No AGKPB5417G			
vii) Address as per Aadhaar Card Samarthnagar, Aurangabad	viii) Tel. No. 0240660111	ix) Fax No. 02402484427			
x) e-mail mg= ca@themgmgroup.com	xi) URL of website www.themgmgroupp.com				
2) Details of the HCF					
I) Name of the HCF MGM'S MEDICAL COLLEGE & HOSPITAL	ii) Email mgmmca@themgmgroup.com	III) Name of the contact person Lahane Yougesh			
iv) Contact No. 8007488994					
3) Address of the HCF					
i) Building Name/Building No./Survey Number MGM'S CAMPUS	ii) Street / Village N-6, CIDCO	III) City / Taluka AURANGABAD			
iv) District Aurangabad	v) Pin-Code Number 431003	vi) Near by Landmark			
vii) Latitude coordinate 19.8778	viii) Longitude coordinate 75.3545	ix) Ownership Charitable Trust			
4) <tatus and="" authorisation<="" consent="" of="" td=""><td>on under the Bio-Medical Waste (Managen</td><td>nent and Handling) Rules</td></tatus>	on under the Bio-Medical Waste (Managen	nent and Handling) Rules			
i)Authorization No. 1.0/BO/UAN NO052150/CAC-1906001274	ii)Authorization validity Date 2023-12-31				
l)Consent Number 1.0/BO/UAN NO-62150/CAC-1906001274	ii)Consent validity Date 2023-12-31				
5) Total No of Beds (As per valid Auti	norization)	700			
5) Registration Number (e.g. Bombay	Nursing Home reg. no.,MSDC,MBTC)	1947			
7) Registration Expiry Date		2021-06-30			
3) Faculty of Medicine					
Name of the Common Blo-Medical     Vs. Water Grace Products , Aurangabad	Waste Treatment Facility Operator throug	h which wastes are disposed of			

	Quantity (kg/	day)				
Yellow 98.53000		Red 96.71000		Blue 3	.00000	White 0.73000
I) Quantity of Biome	dical waste ply	ven to CRMWTDF	ko/day)			
Yellow 98.5300	Red 96.			0.7300	General S	olid Waste 20.0000
12) Details trainings ) Number of training 13	conducted on s conducted or	BMW n BMW Manageme	nt.			
i) Number of person	nel trained			-		
iii) Number of person	nel trained at	the time of induct	tion			
(v) number of person	nel not underg	gone any training	so far			
v) whether standard Yes	manual for tra	ining is available	2			
vi) any other informa CONTINUES TRAINING S						
13) Details of the acc i) Number of Acciden		d during the year				
ii) Number of the per	sons affected					
ili) Remedial Action t	aken (Please a	attach details if a	ny)			
Yes						
res lv) Any Fatality occur Yes	rred, If yes de	talis.				50.40
lv) Any Fatality occur Yes			in place. Ho	ow many tir	nes you have	not met the standards in a year?
lv) Any Fatality occur Yes 14) Liquid waste gen Yes	erated and tre	eatment methods				
lv) Any Fatality occur Yes 14) Liquid waste gen Yes 15) Is the disinfection a year?	erated and tre	eatment methods			? How many ti	mes you have not met the standa
iv) Any Fatality occur yes  14) Liquid waste gen yes  15) Is the disinfection a year? Yes  Place	erated and tre	eatment methods terilization meeti			? How many ti	mes you have not met the standa
lv) Any Fatality occur Yes  14) Liquid waste gen Yes  15) Is the disinfection a year? Yes  Place  AURANGABAD	erated and tre	terilization meeting  Designation  DEAN			? How many ti	mes you have not met the standa
iv) Any Fatality occur Yes  14) Liquid waste gen Yes  15) is the disinfection a year? Yes  Place  AURANGABAD	erated and tre	terilization meeting  Designation  DEAN			? How many ti	mes you have not met the standa
iv) Any Fatality occur yes  14) Liquid waste gen yes  15) Is the disinfection a year? Yes  Place AURANGABAD	erated and tre	eatment methods terilization meeti			? How many ti	mes you have not met the standa
iv) Any Fatality occur yes  14) Liquid waste gen yes  15) Is the disinfection a year? Yes  Place AURANGABAD	erated and tre	eatment methods terilization meeti	ng the log 4	standards	P How many ti	mes you have not met the standa
iv) Any Fatality occur Yes  14) Liquid waste gen Yes  15) Is the disinfection a year? Yes  Place AURANGABAD	erated and tre	eatment methods terilization meeti	ng the log 4	standards	Phow many ti	mes you have not met the standa
iv) Any Fatality occur yes  14) Liquid waste gen yes  15) Is the disinfection a year? Yes  Place AURANGABAD	erated and tre	eatment methods terilization meeti	ng the log 4	standards	Phow many ti	mes you have not met the standa
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iv) Any Fatality occur yes  14) Liquid waste gen yes  15) Is the disinfection a year? Yes  Place AURANGABAD	erated and tre	Designation DEAN	ng the log 4	standards	Phow many ti	mes you have not met the standa



### MGM MEDICAL COLLEGE & HOSPITAL

N-6 Cidco, Aurangabad 431 003

Tel: (0240)6601100, Fax (0240) 2484445 may- 2020

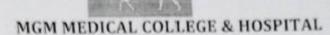
MGM/MCH/<del>2019</del> 2020

Date: 01 /05/2018

### Treatment and Disposal of Biomedical Waste generated from Hospital to <u>CBMWTSDF</u>

The authorization is granted for generation and disposal of Bio-Medical Waste (BMW) to CBMWTSDF in waste categories and quantities listed here in below from Jan2026 to December 202 of

Sr. No	Category	Type of Waste	Quantity not to exceed (Kg/M)	Segregation Colour conding	Treatment & Disposal	
	Yellow	a). Human Anatomical waste	84 kg.		No onsite treatmeth of	
		b). Animal Anatomical Waste	No		BMW is permitted .The	
		c). Solid Waste	18448		above mentioned	
		d). Expired or Discarded Medicines	2.5 kg		Bio medical Waste shall be	
		e). Chemical Waste	No		sent to Common	
		f). Chemical Liquid Waste	No	Separate collection system leading to effluent treatment system	BMW Treatment & Disposal facility authorize by MPCB.	
		g). Discarded linen,mattresses,beddings contaminated with blood or body fluid.	NO	Yellow colored nonchlorinated plastic bags or suitable packing material		
		h). Microbiology Biotechnology and other clinical laboratory waste	8.5 Kg	Autoclave safe plastic bags or containers		
2	Red	Contaminated waste (Recyclable)	301 tg	Red colored non chlorinated plastic bags or containers		
3	White (Translucent)	Waste sharps including Metals	16 kg.	Pucture proof, Leak proof, temper proof container		
4	Blue	a) Glassware	86 Kg	Puncture proof &		
	afe,	b) Metalic body implants	No	leak proof boxes or containers with blue colored marking.		



N-6 Cldco, Aurangabad 431 003 Tel: (0240)6601100, Fax (0240) 2484445 Aug-2020

MGM/MCH/2019 2020

Date: 01 /08/2019

### Treatment and Disposal of Biomedical Waste generated from Hospital to CBMWTSDF

The authorization is granted for generation and disposal of Bio-Medical Waste (BMW) to CBMWISDF in waste categories and quantities listed here in below from Jan2025 to December 2023

ir. No	Category	in waste categories and quantitie Type of Waste	Quantity not to exceed (Kg/M)	Colour conding	& Disposal	
	Yellow	a). Human Anatomical waste	71-168		No onsite treatmeth of BMW is	
		b). Animal Anatomical Waste	No		permitted .The	
		e). Solid Waste	133 43		above mentioned Bio medical	
		d). Expired or Discarded Medicines	1.5-x3		Waste shall be sent to Common	
		e). Chemical Waste	No		BMW Treatmen	
		f). Chemical Liquid Waste	004	Separate collection system leading to effluent treatment system	& Disposal facility authorize by MPCB.	
		g). Discarded linen,mattresses,beddings contaminated with blood or body fluid.		Yellow colored nonchlorinated plastic bags or suitable packing material		
		h). Microbiology Biotechnology and other clinical laboratory waste		Autoclave safe plastic bags or containers		
2	Red	Contaminated waste (Recyclable)	247-KJ	Red colored non chlorinated plastic bags or containers		
3 White (Transluc		Waste sharps including Metals	16-163	container		
4	Blue	a) Glassware	88-Kg	Puncture proof &		
		b) Metalic body implants	NO	leak proof boxes or containers with blu colored marking.		



### MGM MEDICAL COLLEGE & HOSPITAL

N-6 Cldco, Aurangabad 431 003 Tel: (0240)6601100, Fax (0240) 2484445 october - 2020

MGM/MCH/2019 2020

Date: 01 /10 /2019

Treatment and Disposal of Biomedical Waste generated from Hospital to
CBMWTSDF

The authorization is granted for generation and disposal of Bio-Medical Waste (BMW) to CBMWTSDF in waste categories and quantities listed here in below from Jan2026 to December 2026

ir.	Category	Waste categories and quantitie Type of Waste	Quantity not to exceed (Kg/M)	Segregation Colour conding	Treatment & Disposal			
	Yellow	a). Human Anatomical waste	65-48		treatmeth of BMW is			
		b). Animal Anatomical Waste	100		permitted .The above mentioned			
	1	c). Solid Waste	121-Kg		Bio medical			
		d). Expired or Discarded Medicines	3-149		Waste shall be sent to Common			
		e). Chemical Waste	10 10	BMW Treatment				
		f). Chemical Liquid Waste	NO	Separate collection system leading to effluent treatment system	& Disposal facility authorized by MPCB.			
		g). Discarded linen,mattresses,beddings contaminated with blood or body fluid.	No	Yellow colored nonchlorinated plastic bags or suitable packing material				
		h). Microbiology Biotechnology and other clinical laboratory waste	3-169	Autoclave safe plastic bags or containers				
2	Red	Contaminated waste (Recyclable)	259-103	Red colored non chlorinated plastic bags or containers				
3	White (Translucent	The state of the s				Pucture proof, Leak proof ,temper proof container		
-	Blue	a) Glassware	74-143	Puncture proof &				
4	Biuc	b) Metalic body implants	NO	leak proof boxes or containers with blue colored marking.	c			

) anaray?

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### **Annexure V: Water Consumption figures for the previous months**

### Aug 2020

12	64739	201	16663	17	77625	95	63566	48	5445	164	55433	31	50461	31	20021	0	11742	13361	76516	34923	69522	96
- 8	63858	220	16610	1,2	77240	84	63329	65	4846	150	55278	40	50300	42	20008	0	11699	13252	76455	34544	69193	87
16	64313	225	16625	15	77335 77420	95 85	63390	61 58	5001	155	55321 55367	43	50345	45 50	20008	7	11710	13278	76468 76468	34640	69278	92
11	64538	225	16646	11	77530	110	63518	70	5281	135	55402	35	50430	35	20021	6	11730	13325	76487	34830	69439	9
		-	manufacture of	-	TO STANSON AND	mission make		-	10000	-	55433	31	50461	31	20021	0	11742	13361	76516	34923	69522	9
13	64954	215	16690	27	77721	96	63635	69	5625	180	55483	50	50510	49	20036	15	11752	13396	76568	15029	69570	9
14	65194	240	16720	30	77790	69	63689	54	5817	192	55530	67	50563	53	20052	16	11762	13438	76582	35139	69635	1
15	65413	219	16758	38	77867	77	63744	55	5993	176	55586	56	50610	47	20078	26	11773	13472	76592	35241	69748	1
16	65658	245	16772	14	77947	80	63830	86	6176	183	55635	49	50663	53	20096	18	11786	13505	76625	15356	69865	1
17	65895	237	16790	18	79033	96	63892	82	6371	195	55693	58	50714	51	20108	12	11797	13545	76639	35465	69865	1
18	66131	236	16805	15	78109	76	63954	62	6525	154	55744	51	50764	50	20123	15	11808	13588	76655	35559	69956	1
19	66376	245	16832	27	78189	80	64019	65	6690	165	55796	52	50801	37	20134	11	11818	13618	76655	35660	69990	1
20	66616	240	16850	18	78275	86	64089	70	6855	165	55851	55	50840	39	20144	10	11819	13653	76655	35773	70030	1
21	56861	245	16863	13	78336	81	64160	71	7025	170	55904	53	50885	45	20156	12	11828	13685	76655	15885	70075	
22	67091	230	16882	19	78429	73	64725	65	7184	159	55964	60	50920	35	20165	9	11839	13717	78655	35990	70099	
23	67341	250	16899	17	78519	90	64292	67	7344	160	56029	65	50960	40	20176	11	11850	13764	76655	36080	70140	
24	67590	249	16915	16	78598	79	64343	51	7517	173	56045	16	50986	26	20187	11	11861	13765	76655	36166	70185	
25	67825	235	16935	20	78684	86	64405	62	7677	160	56093	48	51028	42	20187	.0	11870	13805	76655	36260	70220	
26	68065	240	16953	18	78764	80	54469	64	7839	162	56144	51	51073	45	20187	0	11881	13845	76560	36355	70260	10
27	68295	230	16973	20	78834	70	64536	67	7999	160	56199	55	51113	40	20187	0	11892	13888	76675	36460	70295	
28	68530	235	16985	12	78919	85	64599	63	8154	155	56244	45	51158	45	20195	В	11901	13933	76680	36570	70340	13
29	68756	126	16999	14	78994	75	64662	63	8319	165	56297	53	51201	43	20195	0	11910	13973	76690	36665	70380	
30	68983	232	17015	16	79069	75	64727	65	8478	159	56339	42	51249	48	20205	10	11921	14008	76720	36770	70435	
31	70.700		21020		12000			-		100				7.7	-				77000		100	T
TOTAL		7027		535		2545		1997		4622		1378		1328		337	299	919	450	3110	2159	
PERDAY	234 N	-	17 N		847		66 M		154		45 8	-	447	SUPPLY STATES	11.5	-	9.9 M3	-	80 MR+101	3 M3+ 91 N	13= 224 M	1

### **Sept 2020**

DATE	1,2,3,0FD & C	МЗ	8.NO1	МЗ	8. NO 2	MB	B.NO3	M9	B,NO 4	M3	OPD BUIL	M3	PHY BUIL	М3.	D HOSTEL	143	CANTEEN	STP HOS	FILISH	INEC FLUSH	GARDE	N STP
OLD	74048		17640		81706		66951		13687		57901		52660		20499		12274	14762	76792	39904	71732	136
1	74138	90	17655	15	81805	99	67030	79	13857	170	57942	41	52705	45	20499	0	12285	14777	76810	40012	71732	144
2	74288	150	17666	31	81914	109	67090	60	14030	173	57989	47	52741	36	20501	2.	12294	14792	76810	40092	71732	144
3	74288	0	17688	22	82019	125	67140	50	14200	170	58034	45	52784	43	20510	9	12302	14808	76810	40182	71760	- 144
4	74547	259	17699	11	82142	103	67199	59	14365	165	58072	38	52828	44	20510	0	12317	14819	76842	40287	71760	140
5	74757	210	17718	19	82228	86	67269	70	14541	176	58104	32	52875	47	20510	0	12323	14825	76842	40375	71760	144
6	74844	87	17737	19	82300	72	67327	58	14700	159	58143	39	52919	64	20527	17	12335	14836	76843	40476	71760	144
7	74930	86	17754	17	82385	85	67401	7.4	14856	156	58199	56	52977	58	20540	13	12347	14836	76844	40578	71760	144
8	74999	69	17772	18	82455	70	67477	76	15026	170	58254	55	53037	60	20560	20	12350	14836	76844	40678	71760	145
9	75080	81	17795	23	82536	81	67557	80	15196	170	58304	50	53085	4E	20578	1.0	12361	14836	76844	60780	71760	145
10	75175	95	17815	20	82526	90	67642	85	15375	179	58364	60	53138	53.	20595	18	12373	14835	76847	40870	71760	145
11	75269	94	17835	20	82703	77	67722	80	15520	145	58427	63	53193	55	20618	22	12382	14836	76855	40965	71760	148
12	75359	90	17850	15	82789	86	67792	70	15694	174	58477	50	53247	54	20631	13	12391	14836	76857	41062	71760	145
13	75429	70	17865	15	82862	73	67846	54	15882	188	58537	60	53324	77	20650	19	12403	14836	76858	41191	71760	151
14	75498	69	17885	20	82954	-92	67923	.77	16068	186	58600	63	53379	55	20565	15	12414	14836	76875	41295	71760	158
15	75599	101	17912	27	83040	86	68003	80	16253	185	58660	60	53420	41	20681	16	12425	14836	76875	41399	71760	156
16	.0		17930	18	83125	85	68093	50	15433	180	58723	63	53476	56	20698	17	14440	14836	76896	41501	71760	150
17	25	25	17950	20	83214	80	68163	70	16623	190	58790	67	53525	49	20712	1.4	12456	14836	76902	41606	71760	160
18	285	260	17968	18	83299	85	68232	69	16815	192	58850	60	53579	54	20729	17	12470	14836	76936	41702	71760	160
19	553	268	17986	18	83385	86	68317	85	16995	180	58905	55	53626	47	20743	14	12483	14836	76964	41810	71760	160
20	803	250	17999	13	83472	87	68395	78	17170	175	58955	60	53680	54	20759	16	12496	14836	76976	41914	71760	160
21	1078	275	18011	12	83552	80	68470	75	17356	186	59015	50	53732	52	20775	16	12510	14836	76995	42012	71760	16
22	1328	250	18035	24	83639	87	68549	79	17539	183	59060	45	53782	50	20796	23	12522	14836	76995	42125	71760	163
23	1568	240	18052	1.7	83725	86	68634	85	17735	196	59112	52	51816	54	20812	14	12538	14836	37040	42235	71760	163
24	1813	245	18072	50	83803	78	68704	70	17907	172	59189	57	53886	50	20830	18	12551	14836	77061	42342	71790	170
25	2086	273	18092	20	113886	83	68799	85	18099	192	59250	81	53935	49	20851	21	12565	14836	77061	42450	71760	170
26	2356	270	18105	13	83956	70	68875	86	18286	187	59330	80	53980	45	20878	2.7	12580	14836	77061	42555	71760	176
27	2596	240	18123	18	84031	75	68965	90	18482	196	59399	69	54045	65	20906	28	12595	14836	77061	42561	71760	183
28	2884	288	18142	19	84109	78	69013	48	18654	172	59464	85	54108	60	20933	27	12609	14836	77001	42773	71760	184
29	9151	267	18160	18	84181	72	69085	72	18843	189	59541	57	54164	59	20956	23	12622	14836	77061	42897	71760	180
30	3431	280	18161	1	84261	80	69155	70	19036	193	59603	62	54229	65	20990	34	12635	14836	77061	43002	71760	188
31	3696	265	18175	14	84344	83	69231	76	19208	172	59655	52	54291	62	21020	30	12646	14836	77061	43105	71760	188
POTAL.	100	3696		535	- 35	2638		2280	100	3521	1000	1754		1631		521	372	74	269	3201	28	49
CRUAY	132 M	3	19 N	13	118	M3	62 M	1	168	M3	40 %	43	43 n	n3	6.M	5	10 M3	12 M3+95 M3+		M3+17 M	3= 124 m3	1

### Oct 2020

PERIDAY	276 M	3	16 N	13	891	M3	76 N	(3	176	MI	65 N	43	541	m3	14.8	A3	11 M3	1 2 2 3	15 M3+10	I M3+31 F	/13= 189 m	1
TOTAL		8298		502		2692		2295		5295	100	1952	100	1641		449	336	453	492	1050	498	437
31			-		200000	1000			177	1000	-	10000	2000				1000					
30	11994	314	18677	0	87036	85	71526	80	24503	182	61607	82	55932	46	21469	14	12982	15289	77553	65155	72258	229
29	11680	314	18677	9	86951	97	71437	80	24321	194	81525	76	55896	55	21455	22	12970	15279	77553	46045	72241	222
28	11366	302	18668	17	86854	94	71357	90	24127	176	61449	81	55831	40	21433	18	12958	15263	77553	45940	72223	220
27	11064	310	18651	17	86760	96	71267	84	23951	179	61368	76	55791	60	21415	16	12947	15245	77551	45832	72211	220
26	10754	320	18634	14	86664	80	71183	86	23772	218	61292	86	55731	46	21399	16	12934	15230	77553	45735	72205	220
25	10434	295	18620	21	86584	105	71097	79	23554	185	61206	75	55685	70	21383	21	12925	15211	77532	45630	72186	220
24	10139	315	18599	9	86479	94	71018	75	23369	180	61131	86	55615	60	21362	22	12913	15190	77532	45520	72186	214
23	9824	298	18590	15	86385	102	70943	82	23189	196	61045	76	35555	50	21340	20	12902	15179	77493	45420	72186	254
21	9526	302	18575	5	86283	95	70861	78	22993	195	60969	85	35505	54	21320	15	12891	15166	77467	45315	72152	214
21	9224	305	18570	15	86188	101	70783	85	22798	175	60884	75	55451	65	21305	15	12882	15155	77451	45205	72152	214
20	8919	310	18555	20	86087	100	70697	85	22623	190	60809	82	55386	60	21290	18	12872	15140	77395	45058	72152	234
18	8319 8629	269	18525 18535	13	85890 85987	97	70532	80	22433	185	60727	82	55326	55	21272	20	12860	15120	77371	44995	72119	214
17	8050	275	18512	10	85819	85 71	70464	68	22097	151	60645	46	55271	90	21252	10	12850	15099	77342	44891	72118	2149
16	7775	280	18502	20	85734	75	70401	70	21927	165	60548	51	55092 55181	89	21242	12	12838	15080	77342	44801	72118	214
15	7495	275	18482	7	85659	80	70331	65	21762	160	20070	50 48		86	21230	0	12825	15070	77286	44715	72022	214
14	7220	280	18475	20	85579	78	70266	74	21602	191	60450	73	54916 55006	90	21230	20	12814	15058	77246	44620	72009	199
13	8940	276	18455	15	85501	95	70192	79	21411	185	60377	49	54870 ·	55 46	21210	18	12803	15035	77246	4451B	71997	199
12	5664	290	18440	20	85406	85	70113	82	21226	180	60328	63	54815	65	21179	13	12794	15015	77216	44420	71984	199
11	6374	280	18420	14	85321	90	70031	80	21046	190	60265	60	54750	60	-	12	12772	14980	77201	44330	71974	199
10	6094	231	18406	17	85231	89	69951	50	20856	159	60205	52	54690	35	21157	10	12772	14955	77171	44222	71952	1964
9	5863	251	18389	35	85142	. 96	69901	77	20697	160	60153	56	54655	36	21146	-	12760	14931	77135	44121	71940	1940
A	5612	235	18354	19	85045	88	63829	80	20537	176	60097	65	54619	43	-	12	12756	14912	77108	44033	71940	1906
7	5876	232	18335	20	84958	90	69749	80	20361	180	60032	51	54576 54576	36	21134	10	12725	14896	77091	43932	71916	1906
6	5144	246	18315	25	84868	82	69669	78	20181	163	99981	48	54540	41	21112	12	12725	14896	77087	43831	71818	1874
5	4898	240	18290	22	84786	91	69591	78	20018	145	59933	50	54499	36	21099	13	12714	14880	77081	43723	71802	1874
4	4658	242	18268	25	84695	87	69513	65	19873	150	59883	51	54463	42	21088	13	12692	14836 14860	77061	43513	71760	1873
3	4416	235	18243	23	84613	.80	69448	68	19713	170	59832	62	54421	45	21075	15	12682	14836	77061	-	71790	1873
2	4181	245	18220	26	84525	92	69380	74	19543	170	59770	60	54376	45	21060	18	12672	14836	77061	43306	71790	1873
1	3936	240	18196	21	84433	89	69305	75	19373	165	59710	55	54331	40	21042	22	12660	14836	77061	43207	71760	1875
OLD	3696		18375		34344	-	69231	-	19208		59655		54291	-	21020	22	12646	14836	77061	43105	71760	1873
MAIR		Mil		Ma	10000	Mra		mo				Inte	2000	1000		100		S Alle		FLUSH	71.700	1867
DATE	1,2,3,0PD & C	M3	8.901	MO	B.NO2	M3:	8.ND3	MB	8.NO.4	MI	OPO BUIL	MB	PHYSEL	M3	DHOSTEL	MS	CANTEEN	STP HOS	FLUSH	INEC	GARDE	V STP

### Nov 2020

PERDAY	234 N	(3	17 8	43	84 N	//3	66 M	3	154	M3	45 %	//3	44.1	43	118	43	9.9 M3		30 M3+10	3 M3+ 91 N	13= 224 M	1
TOTAL	- 0	7027		535		2545		1997		4622		1378	1 100	1328		337	299	919	450	3110	2159	
31	20,000	1.00	27,042	-0	74303	-12	01/4/	-	2-114		22000		20070	- 1								İ
30	68901	232	17015	16	70069	75	64727	65	8478	159	56339	42	51249	48	20205	10	11921	14008	76720	36770	70435	t
29	68756	235	16999	14	78994	75	64662	63	8319	165	56297	33	51201	43	20195	0	11910	13973	76690	36665	70380	+
27	68295 68530	230	16973 16985	20	78834 78919	70 85	64536 64599	63	7999 8154	155	56244	45	51158	45	20195	8	11901	13933	76680	36570	70340	+
26	68065	260	16953	18	78764	80	64489	67	7839	160	56199	55	51113	40	20187	-0	11892	13888	76675	36400	70295	+
25	67825	235	16935	20	78684	86	54405	62	7677	160	56093 56144	48 51	51028 51073	42	20187	0	11881	13845	76660	36355	70260	+
24	67590	249	16915	16	78598	79	64343	51	7517	173	56045	16	50985	26	20187	0	11861	13805	76655	36260	70220	+
23	67341	250	16899	17	78519	90	64292	67	7344	160	56029	65	50960	40	20176	11	11850	13764	76655 76655	36080 36166	70140	+
22	67091	230	16882	19	78429	73	64225	65	7184	159	55964	50	50020	35	20165	9	11839	13717	76655	35990	70099	+
21	56851	-245	16863	13	78356	81	64160	71	7025	170	55904	53	50685	45	20156	12	11828	13685	76655	35885	70075	ł
20	66616	240	16850	18	78275	86	64089	70	6855	165	55851	55	50840	39	20144	10	11819	13653	76655	35773	70030	÷
19	66376	245	16832	27	78189	80	64019	65	6690	165	55796	52	50801	37	20134	11	11818	13618	76655	35660	69990	÷
18	66131	236	16805	35	78109	76	63954	62	6525	154	55744	51	50764	50	20123	15	11808	13588	76655	35559	69956	+
17	65895	237	16790	18	78033	86	63892	62	6371	195	55613	58	50714	51	20108	12	11797	13545	76639	35465	69865	+
16	65658	245	16772	14	77947	80	63830	86	6176	183	55635	49	50663	53	20096	18	11786	13505	76625	15356	69845	Ŧ
15	65413	219	16758	38	77867	77	63744	55	5993	176	55586	56	50610	47	20078	26	11773	13472	76592	35241	69748	1
14	65194	240	16720	30	77790	69	63689	54	5817	192	55530	47	50563	53	20052	15	11762	13436	76582	35139	69635	1
13	64954	215	16690	27	77721	96	63635	69	5625	180	55483	50	50510	49	20035	15	11752	13396	76568	15029	69570	1
12	64739	201	16663	17	77625	95	63566	48	5445	164	55433	31	50461	31	20021	0	11742	13361	76516	34923	69522	1
11	64538	225	15646	11	77530	110	63518	70	5281	135	55402	35	50410	35	20021	6	11730	13325	76487	34830	69439	4
16	64313	230	16635	1,0	77420	85	63448	58	5146	145	55367	46	50395	50	20015	7	11721	13299	76468	34735	69356	1
9	64083	225	16625	15	77335	95	63390	61	5001	155	55321	43	50345	45	20008	0	11710	13278	76468	34640	69278	1
8	63858	220	16610	12	77240	84	63329	65	4846	150	55278	40	50300	42	20008	0	11699	13257	76455	34544	69193	1
7	63638	244	16598	15	77156	92	63264	83	4696	129	55238	44	50258	58	20008	23	11688	13228	76424	34450	69113	1
6	63394	232	16583	15	77064	93	63181	79	4567	119	55194	31	50205	38	19985	18	11678	13195	76394	34334	68999	
5	63162	253	16568	19	76971	89	63102	83	4448	140	55163	48	50167	56	19967	20	11670	13162	76380	34165	68872	1
4	62909	250	16549	20	76882	98	53019	76	4308	135	55115	45	50111	51	19947	19	11661	13148	76360	34074	68742	
3	62659	226	16529	1.4	76784	80	62943	54	4175	122	55070	34	50060	44	19928	17	11652	13127	76344	13984	68617	I
2	62433	230	16515	19	76704	85	62889	84	4051	123	55036	45	50016	-55	19911	21	11640	13104	76330	33890	68540	Ι
1	62203	242	16495	16	75619	95	62805	75	3928	72	34991	30	43961	40	19888	20	11631	13087	76310	33806	68454	Ι
OLD	61961		16480		76524		52730		3856		54961		49921		19868		11622	13089	76270	33660	68276	Γ
	-	Mi	A ND1	Mil	8.902	MI	5.403	MB	83624	MS	OPD WIL	MI	TAG BYIT	140	0657+00U	MI	SPCAN	\$17.905	DATTING.	INDCRUSH	GMDE	-

### Annexure VI: Valid Consent Copy of MGM by MPCB

### 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, 2\*d - 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:

- The conditional combined consent to operate and BMW authorization is granted for period up to 31.12.2023.
- 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
9	Total Built up Area	16,787 Sq. Mtrs

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
2	Domestic effluent	540.0	As per Schedule –I	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.

M/s MGM's Medical College and Hospital, UAN No.62150



5.	Co	nditions un	der Air (P8	CP) Act, 198	1 for air e	emissions:		
	no.	Descrip	tion of sta	ck / source		lumber of Stack	Standards to I	e achieved
_	1		D.G.Set [ f	Marie State of the last of the		1		
-	3		D.G.Set [ 6 D.G.Set [ 7		_	1	As per Sch	edule-II
100	55.0			- 22/07/03/03	aggment	Handling Toron	sboundary and	Out 111 1
Rui	e 20:	16 for treatr	ment and o	fisposal of Ha	zardous	Waste:	sociation and	Other waste)
Se	No.	Type	of Waste	Quanti	ty UK	OM Treatmen	nt D	isposal
L	1	from ETP	mical sludg	ge As actu	al t	(i) -	At C	HWTSDF
	n-Haz	tardous Soli		I was a				
36.1	1	Wet Garb	f Waste	Quantity	UOM		The second secon	posal
	2	Dry Garba		As actual As actual	Kg/Day Kg/Day	owc	Manure Repute or	hand over to
		/00/MSC30-003	* 4.1.	To Holden	-grooy		local body	
	3	STP Sludge	1	As actual	Kg/Day	-	Manure	
		Yellow	a\ M. or			Quantity not to exceed (Kg/M)	Color coding	Treatment & Disposal
1	Y	Yellow	ellow a) Human Anatomical waste			90.0	Yellow colored	d No onsite treatmer of BMW is
			b) Animal Anatomical Waste		1 X 16	9	non- chlorinated	permitted. The above-mentioned
					111		plastic bags	
	1		_	d Waste	110	250.0		Bio medical Waste
			d) Expired or Discarded Medicines e) Chemical Waste			2.0		shall be sent to Common BMW
								Treatment &
								Disposal facility authorized by MPCB
			f) Chiefr	ical tiquid		-	Separate	
	0	200	f) Chien Waste	,			Separate collection system leading to effluent treatment system	authorized by MP
	113	John State of the	f) Cherr Waste g) Disca mattres contam	rded linen, ses, bedding inated with r body fluid.	s	9.0	collection system leading to effluent treatment	authorized by MP

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
3	White (Transluce nt)	Waste sharps including Metals	135	Puncture proof, Leak proof, tamper proof container	medical Waste
4	Blue	a) Glassware	31	Puncture	authorized by
		b) Metallic body implants	-	proof & leak proof boxes or containers with blue colored marking.	MPCB.

- 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.
  - 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 <u>Cytotoxic drugs</u> generated in the Cancer centers, research and health care in the format prescribed by CPCB which is available on <u>www.cpcb.nic.in</u> along with Annual Report to MPCB with a copy to CPCB before 31<sup>st</sup> January every year.
  - You shall manage the <u>Mercury Waste</u> in the HCE in environmentally sound manner (including storage, spilled collection, transportation and disposal) as per CPCB guidelines published on CPCB website <u>www.cpcb.nic.in</u> dated: 07.09.2010 as detailed in document entitled "Environmentally Sound Management of Mercury Waste in Health Care Facilities".
  - 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

1

M/s MGM's Medical College and Hospital, UAN No.62150

- 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;
  - 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.
  - You shall submit separate Bank Guarantees towards compliance of condition mentioned at Annexure – IV to Regional Office, within 30 days.
  - You shall submit compliance of Bank Guarantee conditions every six months to Regional Officer, for verification purpose.
  - You shall submit application for renewal of Combined Consent and Biomedical Waste authorization before 120 days along with appropriate fees.
- This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
- 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
01	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:

- 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.

M's MGM's Medical College and Hospital, UAN No.62150

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#### Schedule-I

- Terms & Conditions for compliance of Water Pollution Control
- 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) AJ 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
23	3.0	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.

M's MGM's Medical College and Hospital, UAN No.62150

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- 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.
- 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
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	*(0)
5	Other such as agriculture, gardening, etc.	colle.

### Schedule-II Terms & conditions for compliance of Air Pollution Control

 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 <sub>3</sub> 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

- 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/Nm³
- 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.
- 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).

M's MGM's Medical College and Hospital, UAN No.62150

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#### 5. 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.
- 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 sitting and control measures.
- 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.
- 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 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
1 (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/-
1 (B)	Records		
19	To Maintain records of BMW and submission of Annual Report in Form –II before 31" January	Continuous	Rs. 25,000/-
2	To maintain records of BMW material delivered to CBMWTSDF	Continuous	Rs. 25,000/-
11	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.

Mis MGW's Nedical College and Hospital, UAN No.62150

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### Schedule-V General Conditions

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

- 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 31<sup>st</sup> 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 30<sup>st</sup> 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 30<sup>th</sup> June of every year.
- 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 (<u>www.mpcb.gov.in</u>).
- 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 arminal manholes. No effluent shall find its way other than in designed and provided collection system.

M's MGM's Medical College and Hospital, UAN No.62160

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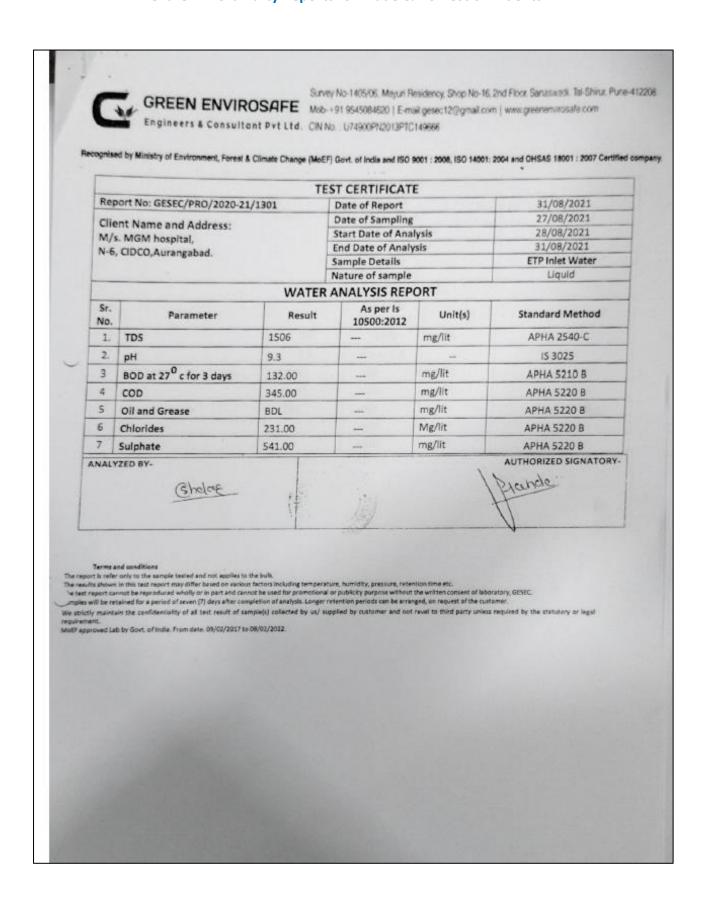
- 13) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the HCE.
- 14) You shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register 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 31\* March of the year and number of trees planted by September end.
- 19) The non-hazardous solid waste arising in the factory premises, pweepings, 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.

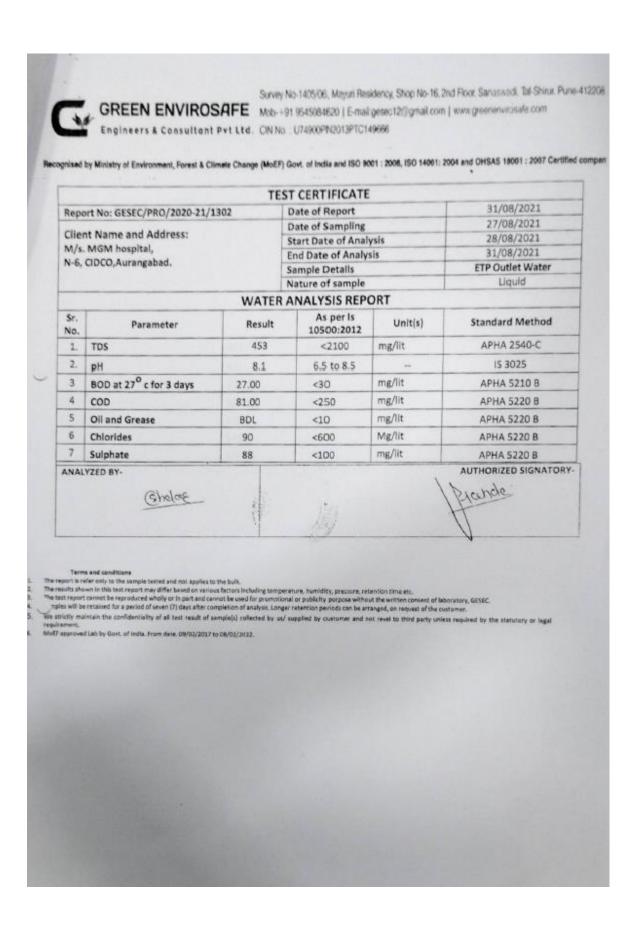


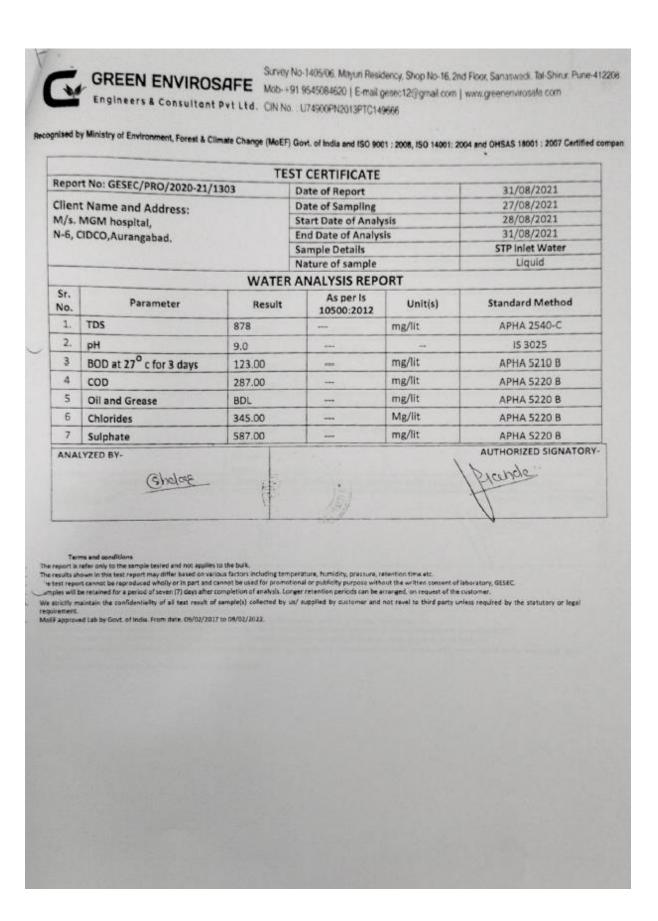
M/s MGM's Medical College and Hospital, UAN No.62150

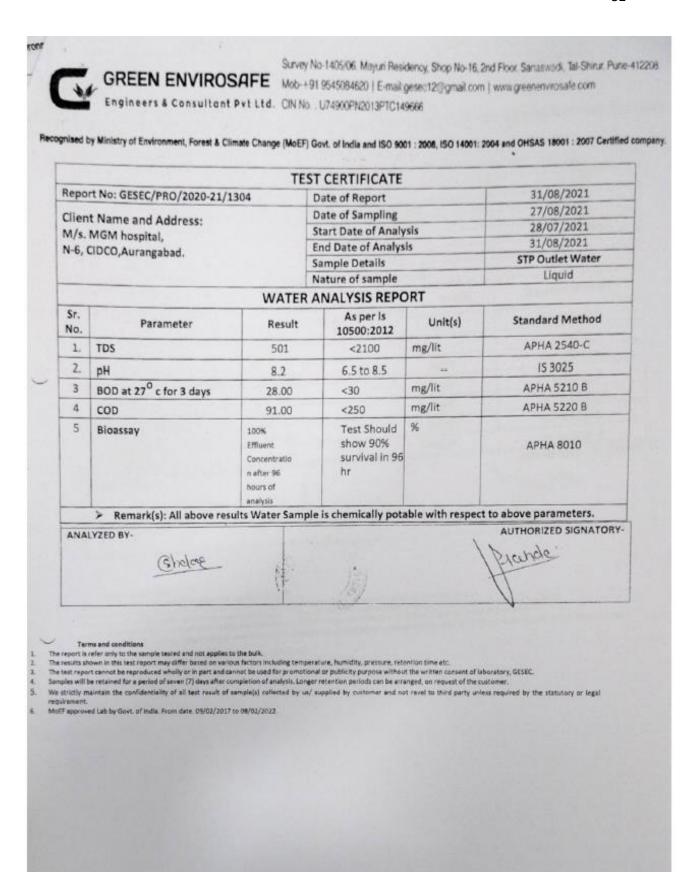
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### **Annexure VII: 3rd Party Reports for Trade & Domestic Effluents**

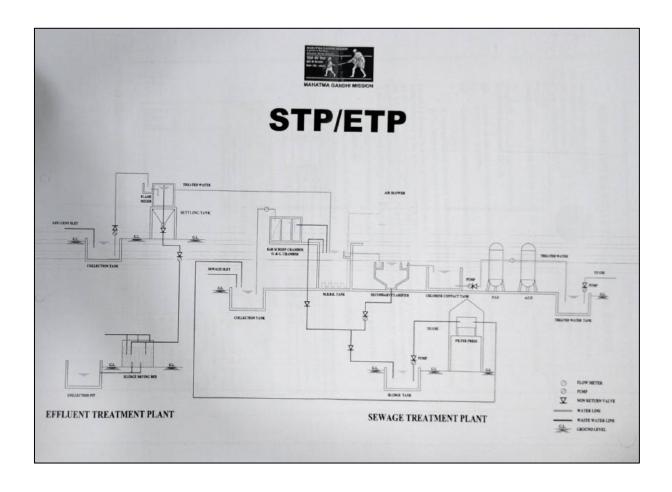








### Annexure VIII: Schematic diagram of ETP & STP



### Annexure IX: Certificate for Work done for Rain Water Harvesting & Storm Water Management

### space forum architects pvt. ltd. surangabed office: 173, handarion of on, continuent, aurangabed-434 002 or (0245) 5370 (13 email: spacedrum@yahoo oo in CERTIFICATE CERTIFICATE OF RAIN WATER / SURFACE WATER HARVESTING (RE-CHARGING) AT MGM'S MEDICAL COLLEGE HOSPITALA AND OPD BUILDING AT CIDCO TOWN CENTER, CIDCO, AURANGABAD. This is to certify that the rain water / surface water harvesting design and execution. Supervision work carried out by our organization and same is completed to our satisfaction, which yielding great positive result and save natural resources as shown in drawing no. The adopted methodology: The Mgm's Medical College Hospital campus have 2 ha, Site. area having topographic slope towards North and North West side. The same sloping situation / direction utilized for collecting the entire terrace rain water and surface water at lowest ground level. The terrace min water is collected in built up channels and surface water is also collected through catchment chambers and it is connected to the main channels of 2.0 m. width. The open channels lead towards existing slope and water is recharged in the deep percolation well having 3.0 m. dia and 6.5 m. depth. The campus have two such open wells, both the wells are connected with horizontal bores to equalize the water level during the pumping. The percolated water is stored in another open well of 4000 KL storing capacity. The store water is reutilized for landscaping, play fields and tropical forest through drip irrigation system. The open channel excess water is collected in two number of open lakes on two different locations on adjoining property of MGM trust. The lakes are covered with water synthesis / bio-synthesis plant for prevention of atmosphere evaporation. These lakes allow water to recharge in surrounding area to prevent soil crosion and provide organically rich fertile soil for landscape. This water harvesting system utilized for all 17.5 ha. MGM campus providing perfect ecological balance and oxygen pool to surrounding neighborhood. The actual resultant of the system is honored appreciation to the trust from His Highness President of India. WINDE. Ar. Shekhar Jivrag Space Forum Architects Pvt. Ltd. regd. office: 114, arhiye pleza. block-b, 27/2, manoramaganj, indore - 452001 tel.; (0731)2494930