7.1.2

Geotag photographs/videos of the facilities



(Dr. R. O. Canjiwale) Principal Principal Institute of Pharmacautical Education & Research Dorgano (Megles, Wardha

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1. Alternative sources of energy and energy conservation measures

1.1 Use of LED Tube lights and bulbs

1.2 Use of sensor-based daylight electricity saving LED lights

1.3 Solar panels as a source of alternate energy

1.4 Reduction in the load of grid electricity from 150 to 38 kv

1.5 Use of 3 Star Air Conditioner (AC)

1.6 Display for saving electricity consumption



1.1 Use of LED Tube lights and bulbs

LED Tube lights and Bulbs are fitted in the premises of the institute for conservation of energy.



LED TUBE LIGHT

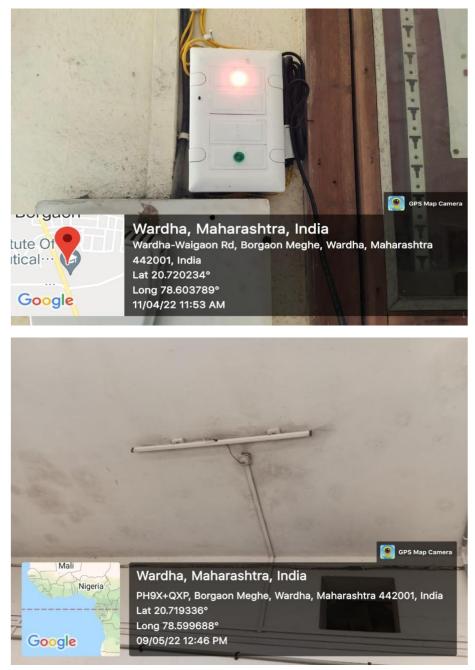


LED BULB



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1.2 Use of sensor-based daylight electricity saving LED lights Sensor based tube lights fitted in the corridor of the institute



Sensor based LED tube light



1.3 Solar system as a source of alternate energy Solar panels are fitted at the roof of Girls Hostel (Under Installation)

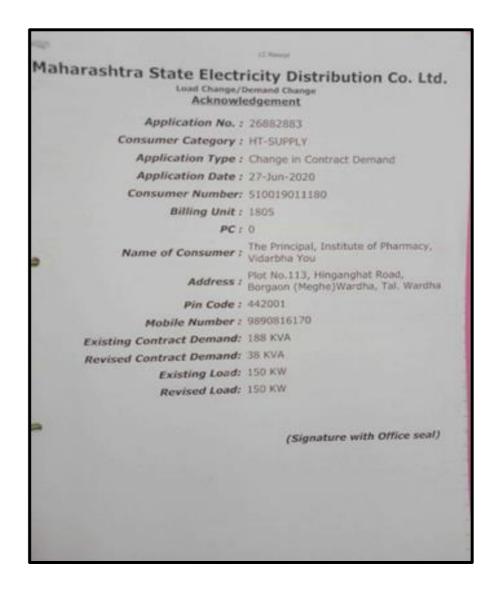






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1.4 Reduction in the load of grid electricity from 150kv to 38 kv





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Electric Bill Showing Reduction of Sanction Load (150 Kv) To Contract Load (38 Kv)

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Principal	
PRINCIPAD	
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Borgaon (Meghe), Wardha	

1.5 Use of 3 Star Air Conditioner (AC)





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1.6 Display for saving electricity consumption







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2. Management of the various types of the degradable and non-degradable waste

2.1 Solid waste management

- 2.1.1 Agreement for housekeeping cleanliness
- 2.1.2 Solid waste periodically collected by GramPanchayat, Borgaon (Meghe), Wardha.
- 2.1.3 Compost pit for bio degradable waste
- 2.1.4 Vending machine and Incineration machine
- 2.2. Liquid waste management
- 2.3. Biomedical Waste management
- 2.4. E-waste management
- 2.5. Hazardous Chemicals/management system

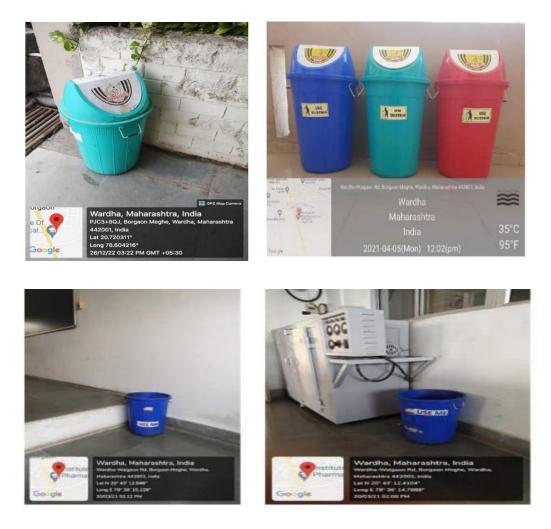




2.1 Solid waste management

2.1.1 Agreement for housekeeping cleanliness

For solid waste management (Housekeeping) college has appointed external agency (contractual basis) which is going to take care of solid waste and proper disposal of the solid waste through Grampanchayat Borgaon (Meghe), Wardha. Dustbins have been placed at various places in the institute, such as classes, laboratories and corridors. The bins are regularly emptied and the waste is collected, and further disposed off through the gram panchayat.



Dustbin placed at various places in the institute for collection of solid waste



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2.1.2 Solid waste periodically collected by GramPanchayat Borgaon (Meghe), Wardha.



Solid waste periodically collected by Gram Panchayat, Borgaon (Meghe), Wardha.



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2.1.3 Compost pit for bio degradable waste



Compost pit for biodegradable waste



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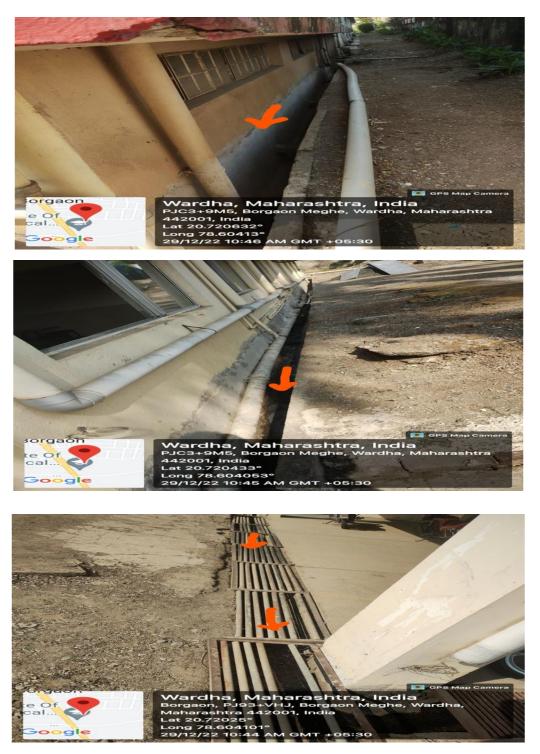
2.1.4 Vending machine and Incineration machine

Vending machine and Incineration machine installed in Girls common room





2.2 Liquid waste Management system





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Liquid/water waste disposal pipe line



2.3 Biomedical Waste

Microbiological practical waste (nutrient broth/agar) are treated either by autoclaving or chemical treatment and then disposed to pit in the institute premises as manure for soil





Autoclave for sterilization of microbial culture media



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	Borga	UTICAL EDUCATION ton Meghe, Wardha	
	STANDARD	OPERATING PROCEDU	RE
	ANIM	AL WASTE DISPOSAL	
SOP No. IPER/P'COLOGY/AWD/10			
fective Date: 0	01/07/2021 Re	view Date: 01/07/2023	Page 1 of 1
cedure:			
	in polythene bags sup	r animals either found dead or plied for animal carcasses befo	
	lthy or infectious anim Id disinfectant.	als should be buried deep in th	e ground covered with
proper transm	ly disposed off on tern litted to other animals	th infectious material must ensination of their experiment an in the room or to the personne riment and also at the time of o	d that infection is not I involved in handling
		als for disposal must know the ve clothing, gloves and mask fo	
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plastic	bags and should be di	, cotton swab etc, should be co spose safely. nd solid waste shall be collecte	
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	Prepared by	Checked by	Approved by
Sign & date	AM	-Hwaz	Corporte
Name	Ms. S. D. Dharpur	e Dr. D. M. Awari	Dr. R. O. Ganjiwale
esignation	Lab. Technician	Assistant Professor	Principal

SOP FOR ANIMAL WASTE DISPOSAL

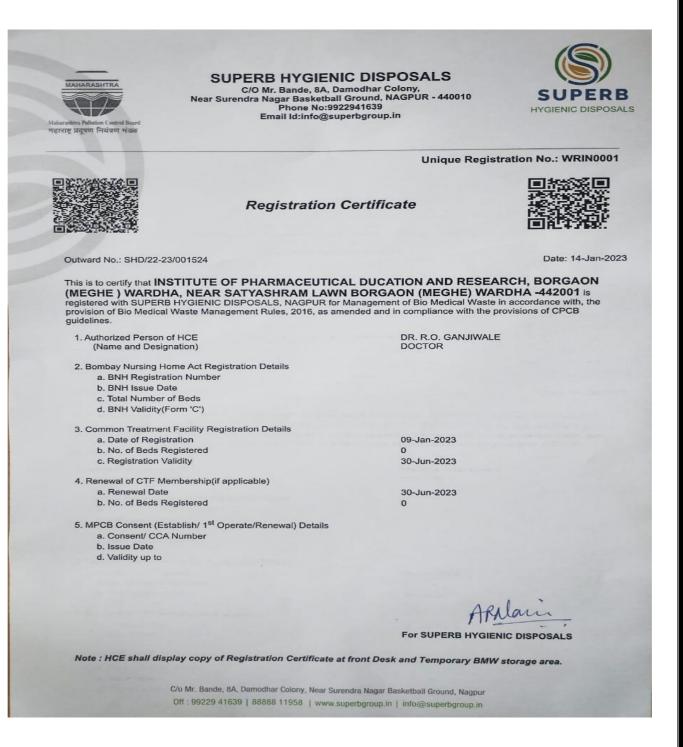




Animal & Microbial Waste Burial Site







Biomedical Waste disposable Registration certificate



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2.4 E-waste management

Institute has a separate E-waste collection area and signed MOU with Purab Sales, Wardha for E-waste collection and disposal.



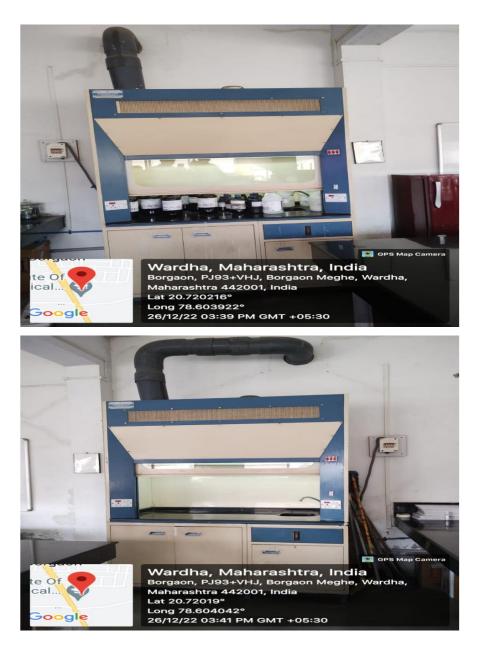
E-waste collecting container placed in scrap room





2.5 Hazardous chemicals & radioactive waste Management

As far as possible use of hazardous chemicals is avoided but if needed to be used, then chemical hood in QA lab, fuming chamber in chemistry lab is used. Radioactive compounds are not yet used in the institute premises.



Chemical hood in Quality Assurance (PG) laboratory



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Fuming chamber in Pharmaceutical Chemistry Laboratory (UG)



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BorgaonMeghe), Wardha 442001 <u>CHEMICAL WASTE TREATMENT</u>				
1	Sulphuric acid	Two moles of sodium hydroxide (NaOH) is required to neutralize one mole of sulphuric acid (H ₂ SO ₄) resulting in sodium sulphate, as follows: $2NaOH + H_2SO_4 \rightarrow Na_2(SO)_4 + 2H_20$		
2	Hydrochloric acid	One mole of sodium hydroxide (NaOH) is required to neutralize one mole of hydrochloric acid (HCl) resulting in sodium chloride, as follows: NaOH + HCl → NaCl + H ₂ 0 Conversely one mole of lime as Ca (OH) ₂ will neutralize two moles		
2	Nitric acid	of hydrochloric acid (HCl) resulting in calcium chloride, as follows: $Ca(OH)_2 + 2HCl \rightarrow CaCl_2 + 2H_20$		
3	Nitric acid	One mole of sodium hydroxide (NaOH) is required to neutralize one mole of HNO ₃ resulting in sodium nitrate, as follows: NaOH + HNO ₃ \rightarrow NaNO ₃ + H ₂ 0		
		Conversely one mole of lime as Ca $(OH)_2$ will neutralize two moles of nitric acid (HNO_3) resulting in calcium nitrate, as follows: $Ca(OH)_2 + 2HNO_3 \rightarrow Ca(NO_3)_2 + 2H_20$		
4	Sodium hydroxide	One mole of HCl is required to neutralize one mole of NaOH resulting in sodium chloride, as follows: HCl + NaOH \rightarrow NaCl + H ₂ 0		
		Conversely one mole of sulphuric acid (H_2SO_4) will neutralize two moles of sodium hydroxide (NaOH) resulting in sodium sulphate, as follows: $H_2SO_4 + 2NaOH \rightarrow Na_2(SO)_4 + 2H_20$		
5	Calcium hydroxide	Two moles of hydrochloric acid (HCl) will neutralize one mole of lime as Ca (OH) ₂ resulting in calcium chloride, as follows: $2HCl + Ca (OH)_2 \rightarrow CaCl_2 + 2H_20$		
6	Magnesium hydroxide	Magnesium hydroxide is relatively insoluble in water at neutral pH values and higher. Given this, magnesium has little or no effect on water alkalinity above a pH of 7.0		

The most commonly controlled parameter in laboratory wastewater is pH which is the measure of

free acidity or alkalinity of an aqueous stream.

Prepared on	Prepared by	Checked by	Approved by
01/07/2020	Mr. P. B. Ankar	Mr. G. D. Dahikar	Dr. R. O. Ganjiwale
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		0=0	2

SOP for Hazardous Chemicals disposal/management

After neutralization of chemical waste it is collected in separate container and dumped in chemical soak pit



Collection of Chemical Waste



Chemical soak pit constructed in the college campus



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3. Water conservation

3.1. Rain water harvesting

3.2. Borewell/ well (Water source)

3.3. Water head tank/Water storage tank





3.1. Rain water harvesting





Water Harvesting System installed on College Building





Water harvesting recharge pit



Water filtration unit connected to Water Harvesting Pit



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Water filtration unit connected to water harvesting pit



Rain water harvesting pit





3.2. Borewell/ well (Water source)



Borewell (Water source)



Well (Water source)



3.3. Water head tank/Water storage tank



Water storage tank



Water storage tank



4. Green campus initiatives

4.1 Tree plantation

4.2 Herbal garden



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4.1 Tree plantation

Institute has appointed dedicated person to maintain garden, herbal garden, tree plantation and related activities.



Photo of Tree plantation 2017-18 (07/07/2017)



Photo of Tree plantation 2018-19 (16/07/2018)



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Photos Tree plantation 2019-20 (11/07/2019)



Photos of Tree plantation 2020-21 (20/07/2020)



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Photos of Tree plantation 2021-22 (28/07/2021)





4.2 Herbal Garden



Herbal garden (Old photos)



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Herbal garden (New photos)

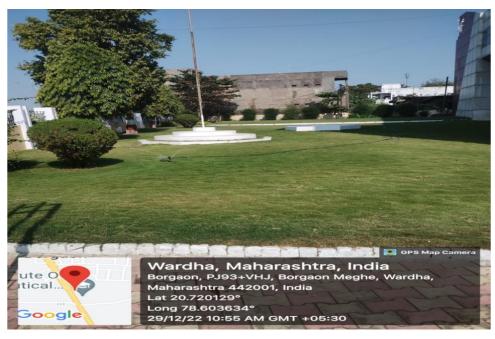


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4.3 Green Campus Photos



Open Theater in College



Green Lawn



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Green lawn



Green Campus



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Green Campus



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5. Disabled- friendly, barrier freeenvironment

Facilities for Divyangajan available at the institute

- 5.1 Ramp: Total 4 ramps are constructed in main building of the institute
- 5.2 Lift: The lift was fitted in the main building with13 persons capacity (884 kgs, Made by Johnson Lifts & Escalators)
- 5.3 Wheel Chair: 1 Wheel chair is available in institute to assist Divyangjan.
- 5.4 Wash room



Facilities for Divyangajan available at the institute 5.1 Ramp





Ramp Ground floor



Ramp First & Second Floor



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5.2 Lift



Lift 5.3 Wheel Chair



Wheel Chair with Lift



5.4 Wash room





Wash room for Divyangjan (Boys)

Wash room for Divyangjan (Girls)

Commode with support handle fitted in washroom for Divyangjan



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