

# Approval Letter

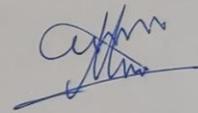
## Banasthali Vidyapith

### Annual lighting power requirements met through LED bulbs (2018-2019)

Total annual lighting power requirement: 8726640 KWH

Annual power requirements met by LED bulbs: 466560 KWH

Percentage of Annual lighting power requirements met through LED bulbs: 53.47



(Electrical Engineer)

Banasthali Vidyapith

Date:

# Environment Audit Report

## Environment Audit Report



**Banasthali Vidyapith**

**PO. Banasthali Vidyapith (Rajasthan)**

**Pin Code- 304022**

**[www.banasthali.org](http://www.banasthali.org)**

**Banasthali Vidyapith  
Environment Audit Report**

1.	a. Name of the Institution	Banasthali Vidyapith
	b. Address of the Institution	Banasthali Vidyapith P.O. Banasthali Vidyapith, Tehsil Newai Dist Tonk – 304022 (Raj.)
	c. E-Mail	psarvesh@banasthali.ac.in
	d. Fax	01438-228365
	e. Mobile.	+919352141476
	f. Telephone	01438-228787
2.	Date of Inspection	05.04.2018
3.	Name & Designation of Contact Person	Prof. Sarvesh Paliwal, Dean Instruction
4.	Nature of Institution	Academic
5.	Size of Institution : Large/Medium/Small	Large
6.	Source of fresh water	Through tanker & PHED supply
7.	Metering arrangement on sources	Available
8.	Logbook of meter	Available
9.	Metering arrangement for water consumption in domestic / Boiler / Cooling	Available
10.	Characteristics of fresh water	pH: 7.44±0.56, Turbidity, NTU:0.008, Total dissolved solids, mg/l: 350±14.8, Total alkalinity as calcium carbonate, mg/l: 135±6.3, Total hardness (as CaCO <sub>3</sub> ),mg/l: 170±8.6, Fluoride (as F) mg/l: 0.56±0.02
11.	Characteristics of air	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup> : 31±2.7, Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup> : 37±2.5, Particulate Matter (Size <10µm) or PM <sub>10</sub> µg/m <sup>3</sup> :86±5.6, Particulate Matter (Size <2.5 µm) or PM <sub>2.5</sub> µg/m <sup>3</sup> :57±4.4
12.	Waste water generation per day	Approx 800 KLD
13.	Whether the Institute buildings are connected with CSTP or provided Effluent Treatment plant	Yes. Institute has STP (capacity of 600 KLD) for the treatment of waste water. 300 KLD used by Krivishi Vigyan Kendra, Banasthali Farm House.
14.	Details of effluent treatment plant.	
15.	A	Operational Status of ETP units : Operational
16.	B	Status of Separate Electric Meter for ETP / STP and Reading thereof. Available
17.	C	Status of Water Meter at inlet, outlet & for recycle and readings thereof Operational
18.	D	Status of logbook for operation, electric meter/ water meters / chemicals consumption Available

19.	E	Characteristics of treated water (As per site observations) pH. Temp. Conductivity, dissolved oxygen.	pH: 7.47±0.5, Oil and Grease, mg/L: 1.056 ±.02, Total Suspended Solids, mg/L: 45±3.4, Total Dissolved Solids, mg/L: 1594.3±30.6, DO, mg/L: 4.2 ± 0.34, COD, mg/L: 66 ± 4.6, BOD, mg/L: 27±2.2
20.		Point of discharge / disposal of waste water & receiving body along with adequacy of disposal.	Through STP
21.		Recycle of treated effluent	Treated water is being used for plantation within premises.
22.		Details of Recycle arrangements	Treated water is being used for plantation within premises.
23.		Method of conveyance of waste water to CSTP	Through pipes
24.		Adequacy of CSTP for total effluent Reaching CSTP	Adequate
25.		Status of Authorization under BMW Rules	Authorization under BMW Rules 2016 was issued to institute vide letter no F(BMW)/Tonk(Newai)/18(1)/2018-2019/2154-2155 dated 02.08.2018 for the period from 09.12.2017 to 30/11/2022.
26.		Method of collection and storage of BMW: Plastic Container/ Plastic bucket/ Other	Plastic Containers
27.		Method of segregation	Waste is segregated in the PVC bags as per the colour code of Biomedical Waste Rules-2016.
28.		Status & verification of segregation of MM waste and use of colour code bags (Red/Yellow/Blue/Black)	Waste is segregated in the PVC bags as per the colour code of Biomedical Waste Rules-2016.
29.		Method of waste disposal	The segregated bio medical waste is being sent to CBWTF M/s Hoswin Incinerator, 54-Vivekanandpuram, Ranthambore Road, Sawai Madhopur, (Raj.) for final disposal.
30.		Status and verification of membership of common waste disposal facility (CBWTF)	Institute has connected with M/s Hoswin Incinerator, 54 – Vivekanand puram, Ranthambore Road, Sawai Madhopur, (Raj.) operating Common Bio-Medical Waste Treatment Facility (CBWTF) for treatment and disposal of BMW and regularly being transported to BMW at site.
31.		Name of common waste disposal facility and validity of CBWTF	M/s Hoswin Incinerator, 54-Vivekanandpuram, Sawai Madhopur, (Raj.).
32.		Status & verification of logbook and record keeping system (of waste generated, treated, transported & disposal )	Institute has maintained the records of biomedical waste generated, treated & transported.
33.		Other disposal methods: Municipality Dustbin / Openly brunt/ Dumped / Thrown at distant / Drainage/ None	Dumped in to Municipal dustbin
34.		Disposal details of Liquid waste /effluent and its quantity	Liquid waste is treated in STP.
35.		Housekeeping as regards waste management at the Institute	Satisfactory
36.		Total green area	58.87 %
37.		Total power requirement	872640 KWH
38.		Total power supply met through renewable energy	1260614 KWH

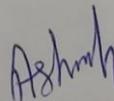
39.	Total lightening power requirement	872640 KWH
40.	Total lightening power requirement met through LED bulbs	466560 KWH
41.	Other eco-friendly measures: a. Use of bicycles b. Use of single plastic	Students and staff are using bicycles. Institute has banned single use plastic since 2010.

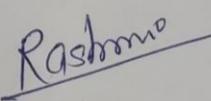
**General Remarks**

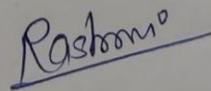
1. The fresh water quality is good as revealed by water quality parameters.
2. The air quality is good as revealed by air quality parameters.
3. Institute has installed STP (capacity of 600 KLD) for the treatment of domestic waste water generated from academic buildings & hostels.
4. During inspection, STP was found operative and maintained
5. Institute has connected with M/s Hoswin Incinerator, 54 – Vivekanand puram, Ranthambore Road, Sawai Madhopur, (Raj.) operating Common Bio-Medical Waste Treatment Facility (CBWTF) for treatment and disposal of BMW and regularly being transported to BMW at site. Copy of certificate is enclosed.
6. Institute has maintained the record regarding biomedical waste generated.
7. Institute has installed DG sets, mostly outside campus (barren land). Acoustic enclosure and adequate stack height have provided on DG Sets.
8. The institute has installed the fire protection equipment within the premises and also obtained certificate from competent authority.
9. Campus has high density of trees/plants, making it a green campus.
10. Source for renewable energy can be strengthened.

**Members of Audit Team**

  
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Environmentalist

  
(Dr. Ashutosh Kumar Pandey)  
Environmentalist

  
(Dr. Rashami Sharma)  
Dean  
School of Earth Sciences

  
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