



Environment Audit Report



Madhya Pradesh Bhoj (Open) University, Kolar road , Bhopal (MadhyaPradesh)

PREPARED BY

EMPIRICAL EXERGY PRIVATE LIMITED

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Environment Audit report prepared by EEPL, Indore, M.P.





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We are indeed touched by the helpful attitude and co-operation of all faculties and technical staff, who rendered their valuable assistance and co-operation the course of study.

Rajesh Kumar Singadiya

(Director)

M.Tech (Energy Management), PhD (Research Scholar) Accredited Energy Auditor [AEA-0284] Certified Energy Auditor [CEA-7271] (BEE, Ministry of Power, Govt. of India) Empanelled Energy Auditor with MPUVN, Bhopal M.P. Lead Auditor ISO50001:2011 [EnMS) from FICCI, Delhi Certified Water Auditor (NPC, Govt of India) Charted Engineer [M-1699118], The Institution of Engineers (India) Member of ISHRAE [58150]





Environment Monitoring Committee

मध्यप्रदेश भोज (मुक्त) विश्वविद्यालय राजा मोज मार्ग (कोलार रोड) भोपाल-462016 (म.प.) Madhya Pradesh Bhoj (Open) University Raja Bhoj Marg (Kolar Road) Bhopal - 462016 India SI.No. 147 /UE/MPBOU /2023/Bhopal Date 06/04/23 Notification A committee is constituted by the Honorable Vice Chancellor for Energy, Green and Environmental audit in the university. It includes the following member-1. Dr. Ratan Suryavanshi, Director Student Support 2. Dr. Kishore John, Director IT, (Incharge CIQA) 3. Shri Nitin Sangle, Assistant Registrar 4. Dr. Smita Rajan, Sr. Consultant CIQA 5. Shri Rajesh Kumar, University Engineer The following staff is also deputed for helping to collect the data. 1. Shri Sanjiv Kumar Singh 2. Shri Manoj Prajapati 3. Shri Pratap Dondiyar 4. Smt. Sangeeta Hatila caum Registrar Copy to:-PA to honorable Vice Chancellor for information please. **University Engineer** दूरगाष : +91 0755–2492093 (कार्यालय), फेक्स : 0755–2490072 ई–मेल : registraroffice.mpbou@gmail.comवेबसाइट : www.bhojvirtualuniversity.com





Audit Team

The study team constituted of the following senior technical executives from Empirical

Exergy Private Limited,

- **4** Mr. Rakesh Pathak, [Director & Electrical Expert]
- **4** Mr. Rajesh Kumar Singadiya [Director & Accredited Energy Auditor AEA-0284]
- **4** Mrs. Laxmi Raikwar Singadiya [Chemical Engineer]
- **Mr. Sachin Kumawat** [Sr. Project Engineer]
- **4** Mr. Hemendra Khadekar [Sr. Electrical Engineer]
- **Mr. Charchit Pathak** [Asst. Project Engineer]
- **4** Mr. Aakash Kumawat [Assistant Jr. Engineer]
- **4** Mr. Mohan Choudhary [Sr. Electrician]





EXECUTIVE SUMMARY

The executive summary of the environment audit report furnished in this section briefly gives the identified water conservation measures that can be implemented in a phased manner to water conservation and increase the productivity of the university

ENVIRONMENT AUDIT RECOMMENDATION

FRESH WATER MONITORING SYSTEM

- Installation of "Cloud based (IoT based) ground water extraction monitoring system" for bore well to quantify fresh water consumption per day in the university
- Install water flow meters (Mechanical or Electronics) on bore well for quantity per day water consumption.

WASTE WATER TREATMENT PLANT

• There is requirement to install sewerage treatment plant (STP) for waste water generated from various activities in university. All waste water generated from drinking, washing is collected in separate tank and it should be treated in propose STP plant.

4 DRIP WATER IRRIGATION SYSTEM.

• Use drip water irrigation system for trees and plants.

WATER SPRINKLER SYSTEM

• There are good potential to install water sprinkler system for lawn area in university. It will be reduced water consumption of university

USE EFFICIENT WATER TAPS .

• Water saving taps either reduce water flow or automatically switch off to help save water. So, it is highly recommended to install efficient water taps in university to reduce water consumption





USE EFFICIENT URINAL TAPS.

• Replacing these inefficient fixtures with water sense labelled flushing urinal can save between 0.5 to 04 litre per flush without sacrificing performance. Installing water saving flushing urinal will not only reduce water use in facilities but also save pumping energy on water bills.

↓ INSTALLATION OF WATER OVERFLOW SENSOR IN TANKS: -

• It was observed that water overflow in overhead tanks after tank filling. So, it is recommended installation of water overflow sensor to avoid water overflow.





CHAPTER-1 INTRODUCTION

1.1 About University

The National Policy of Education (NPE) 1986, emphasized that distance education is an important medium for the development and promotion of higher education. In this context, for the expansion and promotion of distance education the Central Advisory Board of Education (CABE), Government of India took an important decision that in the VIIIth year plan every state should established a state open university following the distance education pattern. On this basis Madhya Pradesh Bhoj (Open) Unversity (MPBOU) was established under an Act of State Assembly in 1991.



Figure 1.1: - Google Image of Madhyapradesh Bhoj (Open) University





4 VISION:-

To be an institution of excellence in open and distance education (ODL) through its academic philosophy, inspirational ways of education delivery and systematic interventions in teaching-learning processes to serve the societal needs and sustainable development goal for making future global citizens.

4 MISSION:-

- 1. To build an integrated open education system enabling the learning to attain their career as well as social and national goal.
- 2. To emerge as a knowledge centre through ICT facilities in education delivery processes and academic governance.
- 3. To attain the global standards of academic practices through research, institutional collaborations and need-based training program.
- 4. To make learner competitive and socially responsible citizens by incorporation of humanistic values and vocational skills in academic programs/curriculum.
- 5. To ensure inclusive and equitable quality higher education and promote lifelong learning opportunities to all sections of society.





Details are the total build-up area given

Total area of university 2,02,464.23 sq. mt.

Details are the total build-up area given in the table:-

Sr.No.	Location	Area in Sq. mt.
1	Administrative building	9,480
2	Staff quarters	628
3	Staff quarters(Type-2)	8,148
4	Guest house	543
5	Material store	793
6	EMPRC/EDUSAT	1,638
7	Staff quarters(Type-3)	3,141
	Total	24,371

College Population

Sr. No.	College Staff/ Student	No. of college population
1	Student	80,149
2	Teaching staff	19
3	Non- teaching staff	48
4	Admin staff	03





Layout of the University







1.2 About environment auditing

Environment audit can be a highly valuable tool for university in a wide range of ways to improve their energy, environment and economic performance. While reducing wastages and operating costs. Environment audit provide a basis for calculating the economic benefits of water conservation projects by establishing the current rates of water use and their associated cost.

1.3 Objectives of environment audit

The general objective of environment audit is to prepare a baseline report on water conservation measures to mitigate consumption, improve quality and sustainable practices.

The specific objectives are

- **4** To monitor the water consumption and water conservation practices.
- To assess the quantity of water, usage, quantity of waste water generation and their reduction within the university

1.4 Target Areas of Environment audit

This indicator addresses water sources, water consumption, irrigation, storm water, appliances and fixtures aquifer depletion and water contamination are taking place at unprecedented rates. It is therefore essential that any environmentally responsible institution should examine its water use practices.





1.5 Methodology followed for conducting Environment audit

Step 1: Walk through survey

- **4** Understanding of existing water sourcing, storage and distribution facility.
- **4** Assessing the water demand and water consumption areas.
- **4** Preparation of detailed water circuit diagram.

Step 2: Secondary Data Collection

- **4** Analyse historic water use and waste water generation
- **4** Field measurements for estimating current water use
- **4** Metered & unmetered supplies.
- 4 Understanding of "base" flow and usage trend at site
- Past water bills
- **Wastewater treatment scheme & costs etc.**

Step 3: Site Environment Audit Planning (based on site operations and practices)

- **4** Preparation of water flow diagram to quantify water use at various locations
- **Wastewater flow measurement and sampling plan**

Step 4: Conduction of Detailed Environment Audit & Measurements

- **4** Conduction of field measurements to quantify water/wastewater streams
- ♣ Power measurement of pumps/motors
- **4** Preparation of water balance diagram
- **4** Establishing water consumption pattern
- 4 Detection of potential leaks & water losses in the system
- **4** Assessment of productive and unproductive usage of water
- **U** Determine key opportunities for water consumption reduction, reuse & recycle.

Step 5: Preparation of Environment Audit Report

- **U** Documentation of collected & analysed water balancing and measurement details
- **4** Projects and procedures to maximize water savings and minimize water losses.
- Opportunities for water conservation based on reduce/recycle/reuse and recharge option





CHAPTER- 2 WATER CONSUMPTION AND WASTE WATER SOURCES

2.1 Details of source of fresh water and use areas

The main source of freshwater is borewell for the university. The freshwater is mainly used for drinking, housekeeping, gardening, domestic activity .

Sr. No.	Location	No. of Borewell	Capacity (HP)
1	Near Admin Building	1	2
2	Near ATM	1	2
3	Infront of VC house	1	3
4	Pump House	1	1.5
5	Pump House Motor 02	-	3
6	Pump House Motor 03	-	5
	Total	4	

Details of the bore well are given in table 2.1



Borewell - 1

Borewell - 2







2.2 Power measurement on borewells

Sr. No.	Fresh Water Sources	Location	Motor Power (HP)	Voltage (V)	Current (A)	PF	Input power (kW)	Waterflow (M3/hr.)	Running hours /day	Total Water supply (M3/day)	Water used
1	Bore well -01	Near Admin Building	2	310	10.9	0.88	3	0.95	8	7.6	for gardening
2	Bore well -02	Near ATM	2	290	7.1	0.87	1.8	1.5	8	12	for gardening
3	Bore well -03	Infront of VC bungalows	3	280	8.2	0.86	2	4.5	12	54	for water storage
4	Bore well -04	Pump House	1.5	285	7.2	0.86	1.8	1.4	6	8.4	for water storage
5	Water Transfer pump	Pump House	3	288	5.4	0.88	1.4	5.1	3	15.3	Water Transfer to overhead tank
6	Water Transfer pump	Pump House	5	290	7.1	0.87	1.8	3.5	3	10.5	Water Transfer to overhead tank





Observation

- Borewell-1 and Borewell-2 are used for gardening purpose for the university.
- Borewell -3 and Borewell-4 are used to fill up the ground water storage tank near pump house.
- Pump -1 and Pump -2 used for water transvers ground water tank to overhead tank.
- Total ground water extraction is 107.8 m3/day in the university.
- Total water storage capacity of the university in the ground water tank is 150 m³.
- Total water storage capacity of the university in overhead tank is 233.25 m3
- Total 19.6 m3/day water are used for gardening purpose.
- Total 62.4 m3/day water are used for storage.
- Total 25.8 m3/day water transfer from pumping system for overhead tank fillup.
- Note All waterflow and power measurement done on dated 13/04/2023





2.3 Water Accounting & Metering system

It was observed that there is requirement of water flow meters on bore well quantify per day ground water extraction from different locations.



Figure: - 2.3 Requirement of water meter on bore well

Observation.

Environment audit team observe that there are required water meter on bore well system. So it is recommended to install water meter on bore wells to quantify of fresh water per day in university campus.





2.4 Water storage capacity in university

In university RCC tanks are available for water storage like Overhead tank, Sump well.

Details of the tanks is given in table.

Sr.	Location	Tank Capacity	Total Water Storage	Type of
No.		(Litre)	Capacity	Tank
1	Sump Well (Underground Tank) for storage	1,50,000	1,50,000	RCC

Sr. No.	Location	No. of Tanks	Tank Capacity (Litre)	Total Water Storage Capacity	Type of Tank
1	Admin Building	4	35,000	1,40,000	RCC
2	EMPRC Building	2	2,000	2,000	RCC
3	Material Store Building	2	1,000	2,000	RCC
4	Guest House	4	1,000	4,000	RCC
5	Registrar House	2	2,000	4,000	RCC
6	V.C House	3	1,000	3,000	RCC
7	V.C House	1	500	500	RCC
7	Officer Block -01	11	1000	11000	RCC
8	Officer Block -02	11	1000	11000	RCC
9	Officer Block -03	11	1000	11000	RCC
10	Officer Block -04	11	1000	11000	RCC
11	Employees Quarter	45	750	33,750	RCC
	Total	107		2,33,250	



Figure: - 2.4 Water storage tank and capacity of University campus

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2.5 Fresh water distribution layout of University

Audit team study the water sources and prepared water distribution flow system of the university campus.









2.6 Water use areas in university

Water is preliminary used for drinking, domestic, gardening. Environment audit team visited various departments and buildings to determine appliances. The details of washroom, toilet and taps are given in table

Details of washroom and uses taps in various areas

Sr.No.	Location	Urinals	Wash Basin	Toilets	Taps
1	Admin Building	36	42	36	36
2	EMPRC Building	6	8	6	6
3	V.C. House	0	6	5	10
4	Store	2	4	4	4
5	Registrar House	0	6	5	10
6	Guest House	0	10	9	18
7	Officer Block Class 01(20 Flats)	0	100	80	160
8	Officer Block Class 02(24 Flats)	0	72	48	96
9	Employs Quarters (45 Flats)	0	90	45	90
	Total	44	288	196	388



Figure: - 2.6 Urinals & washbasins in University

Environment Audit report prepared by EEPL, Indore, M.P.





2.7 Details of water cooler in university

Details of water cooler in university

Sr.	Location	Water Cooler	Capacity
No.		(No's)	(in Liter's)
1	Admin	3	80

2.8 Fresh water uses for gardening

The one of major contribution from fresh water consumption is watering for other plants in university. There is good potential for water saving by adopt "Automatic Watering 360 adjustable misting nozzle irrigation dripper's system" for plants. Adjustable drip irrigation tools to provide different amounts of water depending on the water requirements of different plants. The drip speed can be set as for indoor and outdoor plants.



Figure: - 2.7 Water uses for gardening in University









Proposed Adjustable Misting Nozzle Irrigation Drippers Proposed water timer

2.9 Waste water generation sources

At present waste water generated from various departments, & other activity like washrooms, hand wash etc.

Details of wastewater generation sources with location in below table

Sr. No.	Location	Type of water used	Water consuming activities
1	Admin Building	Fresh water	Drinking and other uses
2	EMPRC Building	Fresh water	Drinking and other uses
3	V.C. House	Fresh water	Drinking and other uses
4	Store	Fresh water	Drinking and other uses
5	Registrar House	Fresh water	Drinking and other uses
6	Guest House	Fresh water	Drinking and other uses
	Officer Block Class 01(20	Fresh water	
7	Flats)		Drinking and other uses
	Officer Block Class 02(24	Fresh water	
8	Flats)		Drinking and other uses
9	Employs Quarters (45 Flats)	Fresh water	Drinking and other uses





CHAPTER- 3 AIR QUALITY MEASUREMENT

3.1 Air Quality Measurement

The audit team conducted air monitoring survey in University campus. Details are given in table

EMPRC Building						
Sr. No.	Location	PM 2.5	PM 10	Particle	CO ₂	
1	Office	28.6	43.2	13475	492	
2	Room	26.6	72.1	5172	473	
3	Studio	23.1	22.1	1914	437	
4	Room	24.2	26.4	5211	466	
5	Open area	28.2	46.2	6390	616	
6	Material Store	24.6	81.1	14857	455	

	Admin Building							
Sr. No.	Location / Room No.	PM2.5	PM10	Particle	Co ₂			
1	Room 05	56.1	82.7	6364	449			
2	Room 30	26.8	40.3	6411	468			
3	Room 31	25.2	39.2	7058	472			
4	Room 02	34.2	45.1	7320	473			
5	Room 01	34.4	51.1	7340	479			
6	Room 34	27.4	40.2	7003	549			
7	Room 41	28.3	41.2	7371	637			
8	Room 36	27.8	37.8	5572	610			
9	Room 40	25.2	38.2	4981	582			
10	Room 39	22.1	34.2	4871	575			
11	Room 27 Account Sec.	25.9	39.3	4713	569			
12	Room 28	23.4	35.4	5118	573			
13	Room 29	22.3	34.5	5151	579			
14	Reciption	23.4	35.1	4857	658			
15	Board Room	24.4	36.7	4578	658			
16	PA to VC Room	20.2	26.4	5291	428			
17	V.C. Room	21.2	33.8	4218	422			
18	Room 06	24.3	36.3	4020	667			
19	Room 07	21.3	31.6	4871	623			
20	Room 08	21.7	30.3	6781	643			
21	Room 10	18.6	27.9	4035	619			
22	Room 22	18.8	28.9	3964	548			
23	Room 17	19.4	33.6	5485	615			

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Sr. No.	Location / Room No.	PM 2.5	PM 10	Particle	CO ₂
24	Audit Room	22.5	35.7	4579	602
25	Room 19	22.4	33.8	5503	591
26	Room 120	19.4	27.5	6676	485
27	Room 123	19.8	30.7	5576	483
28	Room 122	21.4	32.5	3696	673
29	Room 108	20.3	30.2	4151	531
30	Room 117 HOD (DME)	20.5	32.5	4240	508
31	Room 107	21.2	29.4	7238	643
32	Room 106	20.8	32.5	4743	678
33	Room 115(In Charge)	21.5	32.4	4375	595
34	Room 133 Library	23.1	29.3	6024	610
35	Room 126	20.6	30.7	4704	496
36	Room 127	21.5	31.6	4775	610
37	Room 226	22.7	35.6	4465	557
38	Room 224	21.6	32.1	4555	609
39	Room 217	22.8	35.3	4746	616
40	Room 230	22.7	34.8	4482	493
41	Room 205	19.7	29.2	4698	624
42	Room 231	22.7	34.8	4704	617
43	Room 232	22.4	34.5	4492	584
44	Room 236	21.6	32.5	4207	550
45	Registrar Office	20.5	30.5	4496	538
46	Security Room	23.1	34.1	4933	442

Observation:-

- PM_{2.5} value is acceptable range. The 24-hour concentration of PM_{2.5} is considered unhealthy when it rises above 35.4µg/m³
- ⁴ PM₁₀ value is acceptable range. It should below $155 \mu g/m^3$
- CO₂ value is acceptable range. It should be below 1000 ppm.





CHAPTER- 4 RAINWATER HARVESTING SYSTEM

4.1. Rainwater Harvesting systems

Rainwater harvesting is a technique to capture the rainwater when it precipitates, store that water for direct use or charge the groundwater and use it later.

There are typically four components in a rainwater harvesting system:

- **4** Roof Catchment.
- **4** Collection.
- **4** Transport.
- ↓ Infiltration or storage tank and use.

If rainwater is not harvested and channelized it runoffs quickly and flows out through stormwater drains. For storm-water management, the recharge pits, percolation pits, and porous trenches are constructed to allow stormwater to infiltrate inside the soil.







4.2 Rainwater harvesting system in MP bhoj (Open) University

University has rainwater harvesting systems on campus.



Figure 4.1:- Rain Water Harvesting System on the University campus





4.3 Rainwater Harvesting Potential of the university

The university has a total built-up area is approx. 24371 m². The average annual rainfall of 1.074 m and runoff coefficient of 0.88 is considered for commercial building. Accordingly, to the above figures and consideration, the estimated rainwater harvesting potential for the University is about 594m³/year, 7701m³/year, 513 m³/year, 749m³/year, 1548 m³/year, 2969 m³/year. The following Mathematical Equation is used for the calculation.

RWH Potential = Rainfall (m) x Area of catchment (m^2) x Runoff coefficient

Sr. No.	Name of the building	Rooftop Area(m2)	Average rain fall (m)	Runoff coefficient	Rainwater Harvesting potential (m3/year)
1	Staff quarters	628	1.074	0.88	594
2	Staff quarters(Type-2)	8,148	1.074	0.88	7,701
3	Guest house	543	1.074	0.88	513
4	Material store	793	1.074	0.88	749
5	EMPRC/EDUSAT	1,638	1.074	0.88	1,548
6	Staff quarters(Type-3)	3,141	1.074	0.88	2,969

Observation

- University has installed Rainwater harvesting system on admin building
- There are good potential to installation of rain water harvesting system on above building.
- Total estimated rain water harvesting potential is 14,074 m³/year.





Annexure-1

3. University Environmental Policy

Environmental policy is mainly concerned with how to maintain the relationship between humans and the natural environment in a mutually cooperative manner. It is usually considered the problems such as controlling pollution and waste flows. The university feels that it is responsible for and should be committed to protect and nurture the environment. Therefore, the university's environmental policy represents essential elements to perform all its operations in an environmentally sustainable manner. It encourages the most appropriate sustainable development principles and practices at all levels of the university's hierarchy.

3.1 The Policy Statement

To act positively on environmental protection with a scientific understanding of business, society, and the environment and demonstrates a commitment to sustainable development. Simply it refers, attaining the needs of the present without compromising the needs of the future generations.

3.2 Objectives

- 3.2.1 To safeguard the environment by effectively implementing policies set out in this policy document and monitor them;
- 3.2.2 To ensure sustainable use of resources and prevent profligate or destructive practices;
- 3.2.3 To practice environmental standards and assist the university to maintain the set standards;
- 3.2.4 To encourage 'life-cycle thinking' in the procurement of goods and services towards sustainable resource management practices;
- 3.2.5 To communicate university's environmental objectives, create awareness internally and externally, and promote good practices of environmental management;
- 3.2.6 To assure the implementation of responsible environmental management economically and effectively;
- 3.2.7 To supervise environmental management practices and the concerned activities to ensure their feasibility, suitability, and competence regularly;
- 3.2.8 To promote education for sustainable development through academic programs, facilitation of research in sustainability.

3.3 Core Principles

Through the compliance of this Environment Policy, MPBOU, Bhopal shall be committed to,

- 3.3.1 Provide a healthy environment for students, staff and visitors;
- 3.3.2 Always consider environmental guidelines;
- 3.3.3 Adopt Best Practices in its operations;
- 3.3.4 Encourage staff and students to be a part of green initiatives;
- 3.3.5 Promote environmental values for business and society;
- 3.3.6 Achieve optimal resource utilization in university operations;
- 3.3.7 Conduct consistent auditing and monitoring;





3.3.8 Support the initiatives/programs that help to reduce the environmental adverse;

- 3.3.9 Promote environmental education and awareness;
- 3.3.10 Encourage adoption of sustainability practices.

3.4 Applicability

This policy applies only to all land, buildings, activities and people (employees, students, and other members) within the control of the University.

4. Responsibilities

- 4.1 Primarily, the Executive Council of the university and the Hon'ble Vice-Chancellor as the Chief Executive are responsible for implementing this environmental policy.
- 4.2 The Registrar and/or Deputy Registrar(s) hold the responsibility of the university's administration. Thus, this policy document should be considered to control the diverse impact of the university's primary activities on the environment, particularly the management, development, and extension of its land and building.
- 4.3 The University's Environmental Committee (UEC) and Heads/Directors of Institutions and centres are responsible for ensuring compliance with this environmental policy under their authority.
- 4.4 Centre for Internal Quality Assurance (CIQA), MPBOU, Bhopal will actively monitor the performance of UEC, Divisions, and Centres in the implementation of this environmental policy and the compliance of the activities in their control.
- 4.5 Individuals have a responsibility to co-operate with the university and obey the particulars (rules/requirements) made under the authority of the university's environmental policy.

4.2 Continuation of the Policy

The University will conduct periodic reviews and improve this Environmental Policy and will ensure its implementation. This process includes sincere compliance with local and national environmental policy and its legislative guidelines (only related and possible) and incorporating the University's policy into actions at all its hierarchical levels.

4.3 Reporting Violations

Violation(s) of environmental policy, partially or fully, can be reported to the Hon'ble Vice-Chancellor and/or the Registrar of the university.





END OF THE REPORT THANKS

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