

# **Oriental University, Indore (M.P.)**

# 7.1.4 Water conservation facilities available in the Institution:

#### **Response:**

## 1. Rain Water Harvesting System

Rainwater harvesting system, also called rainwater collection system or rainwater catchment system is a technology that collects and stores rainwater for human use. Rainwater is collected from a roof-like surface and redirected to a tank, cistern, deep pit, aquifer, or a reservoir with percolation, so that it seeps down and restores the ground water. The university has a well-established roof top rainwater harvesting system installed in Boy's & Girl's hostel as shown in figure below. The total hostel rooftop area is about 2800 m<sup>2</sup>. The average annual rainfall is 1 meter in Indore city and considered runoff coefficient as 0.95 for commercial buildings. Estimated rainwater harvesting potential is 2,660 m<sup>3</sup>/year.



**(a)** 

**(b)** 

Figure.1: Rain Water Harvesting System

/	(Es	tablished under M.P. Niji Vishwavidyatay (Stnapana avan su (Recognized by University Grants Commission, Opp. Rewati Range Gate no. 1, Post Aurob Sanwer Road, Jakhya , Indore-453555 (M Website: oui.edu.in E-Mail: registrar@orientaluniversity.in	New Delhi) indo (.P.) Ph:0731-3565700
Ref.	No. OU/2	2020-2021/1108	Date: 03/06/202
То		·	
10, M/s	Water V	Varriors	
108,	, B2 Sch.	No. 114 B/H Shalimar Township,	
Vija	y Nagar,		
Ema	all: chouc	maryawadhkishore@gmail.com	
Sub	: - <u>Work</u>	Order for Roof Top Rainwater Harvesting System at	Hostel blocks.
Dea	ır Sir,		
			1 Cubesquant discussion
Wit	h referen	ce to your quotation/Estimate No. : 357 date 03/04/2021 a	her items conditions as giv
plea	ased to pl	ace work order for rain water narvesting as per rates & of	
quo	nations it		Total Amounts
	Sr.	Particulars	(In Rs.)
	No.	Supply, Installation, testing and commissioning of rain	Rs. 4,51,114/-
			CALL IN COUT
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Figure.2 Purchase Order of Rainwater Harvesting System

## 2. Borewell/Open Well Recharge

In Borewell recharging, a natural filter made up of large and small stones is used to filter runoff water from surface water (obtained from rainfall or nearby bodies of water). Water also passes through another layer of sand, eventually perforating the Borewell pipe via a fine mesh wrapped around the casing pipe. Borewell water is cleaned with the fine mesh to ensure big and small impurities are removed before entering the borehole.

In the Oriental University campus the rain water is led into a pit around a Borewell and drained into underground water table, as shown in figure.3.



Figure.3: Borewell Recharge

## 3. Construction of Tanks and Bunds

Tanks and bunds, both are used to collect rainwater. At Oriental University Indore, water gets stored in the tanks located at different convenient points with different capacities. From tanks, the water is supplied to different outlets in university areas like drinking water facilities, washrooms, hostels, residency quarters, etc.







Figure.4: Snapshot of Tanks available at different locations



Figure.5: Snapshot of a Bund at the University

## 4. Waste Water Recycling

The recycling of water is the process of reusing treated wastewater for beneficial uses, such as irrigation, industrial processes, toilet flushing, and replenishing groundwater basins. Sewage treatment is a type of wastewater treatment which aims to remove contaminants from sewage to produce an effluent that is suitable for discharge to the surrounding environment or an intended reuse application, thereby preventing water pollution from raw sewage discharges. For waste water (which comes from hostels and residential apartment of the university), a Sewage Treatment Plant (STP) of **capacity 150 KLD** has been installed in the hostel area, the purchase order and photographs of the STP are enclosed below:



## **ORIENTAL UNIVERSITY, INDORE**

Established under M.P. NijiVishwavidyalay (SthapanaavamSanchalan), Adhiniyam2007

#### **Purchase** Order

Ref: -OUI/Reg./004/PO/1561

May 05, 2022

To, H<sub>2</sub>O Scientific Mahadev Wadi Main Road Opp. School No. 47 Laxmi Nagar Rajkot (G.J.) - 360004

Sub: PO no. OUI/IND/202-21/3178 dated 10/03/2021 for 100 KLD STP System.

Dear Sir,

With reference to your revised quotation no H2o/STP/229/2021 dated 24/01/2022 and telephonic discussions, we are pleased to amend the PO no. OUI/IND/202-21/3178 dated 10/03/2021 as per following rates and other terms: -

150 KLD

MBBR Based System

11.0 kw approximately As per your quotation.

As per item no 4 of your quotation. As per item no "B" of your quotation.

Capacity	
Process	
Scope and technical's details	
Process design basis	
Power Consumption	
Exclusions	

#### Terms & Conditions:

1.	Price		Rs. 12, 60,000/- (Rs. 15, 75,000 - less 20 %)
2.	Taxes	:	GST @ 18% extra
3.	Erection and commissioning	:	Included in price.
4.	Freight	:	Extra as actual cost.
5.	Delivery	1	30 days from the receipt of confirm order
6.	Payment :	(i)	20% advance along with order
		(ii)	60 % at the time of delivery with all taxes
		(iii)	20% after installation.

Please acknowledge receipt & acceptance of the order for processing advance payment.

With regards,

(Dr. Pradyumna Yadav) Registrar REGISTRAR ORIENTAL UNIVERSITY INDORE

> Opp. Reoti Range Gate no. 1, Post Aurobindo Sanwer Road, Jakhya, Indore 453 555 (M.P.) Website: www.oui.edu.in e-mail: registrar@orientaluniversity.in Phone 0731-3565000

Figure.6: Purchase order of Sewage Treatment Plant (STP)





**Figure.7: Geotag Photographs of Sewage Treatment Plant (STP)** 

## 5. Maintenance of water bodies and distribution system in the campus

All the water bodies are well maintained by university staff, and a proper distribution of water supply has-been provided for the fulfilment of needs of all institutional members.



Figure.8: Geotag Photographs of storage tank in hostel areas



Figure.9: Geotag Photographs of an Open well

Following is the flow diagram for water sources and water distribution lines



Figure.10: Fresh water distributions in university campus

Our University has two Reverse Osmosis (RO) Plants. One plant is in the administration building roof tap and the other one is in the hostel building rooftop. The details of supply of RO water in the university campus are prepared and represented in figure given below:



Figure.11: Drinking water flow diagram



Figure.12: Reverse Osmosis (RO) Plant

#### Past, Present and Future Scenarios:

Past Scenario	Present Scenario	Future Scenario	
In last years, university faced	Now, the university enjoys	For future, university is planning	
some problems in water supply,	plenty of water with the help of	for more bunds, and adoption of	
due to lack of availability of	harvested rainwater.	modern water monitoring	
ground water in the university		techniques.	
premises.			

# **Oriental University, Indore (M. P.)**



# **Additional Information**

# **Policy Document**

## Water Management Policy

## STATEMENT

Water is the fundamental requirement of life. It touches all life activities such as agriculture, domestic and all socio-economic activities. The water management policy of OUI includes following points:

- Rain water harvesting
- Bore well /Open well recharge
- Construction of tanks and bunds
- ➢ Waste water recycling
- > Maintenance of water bodies and distribution system in the campus

## **OBJECTIVES**

- > To provide adequate water supplies to meet demands of the campus.
- > To provide clean, safe, reliable drinking water at all times.
- > To increase water availability through recycling.
- > To enable water storage and propose conjunctive management of surface and groundwater.
- > To provide for groundwater recharge while protecting groundwater resources from overdraft.
- > To protect the groundwater resources from contamination.
- > To control excessive erosion and manage sedimentation/situation.
- > To protect, restore, and rehabilitate watershed and bay processes.
- > To protect, restore and rehabilitate the habitat for species protection.
- To enhance monitoring network and information sharing to support proper management of watersheds through community outreach.
- > Increase water resources related recreational opportunities.

#### PROCEDURE

A team is formed to create and implement the water management policy in the OUI campus. The team should visually inspect all the water conservation system in the campus periodically. This team ensures primarily on the regular monitoring of quality of drinking water, maintenance of water distribution system and effective utilization of the waste water. The water demand, wastage of water and the quantity of the water in the reservoirs should be quantified periodically.

The layout of water distribution system should be developed. This map will help the team to identify potential hazard condition of the water distribution system. The up-to-date plumbing drawings should be available to assess the performance of plumbing components. New technologies should be developed to protect and restore the water in the reservoirs and to improve the facilities for ground water recharging and waste water recycling. Various information is to be collected from the experts who are working in the area of water conservation system. The collected information should be presented in the meeting and it should open for discussions.

Productive and efficient methods should be implemented to improve the reservoir capacity & drinking water quality and these methods should be monitored and the efficiency should be evaluated.

#### ROLES

The Water Management Team comprises of the following:

- Vice Chancellor
- NAAC Coordinators
- Faculty Coordinators from all Departments
- Interested Faculties and Technical Staff of OUI
- Plumbing Supervisor of OUI

#### RESPONSIBILITIES

- Conduct meeting regularly and review the policy.
- > Update the maintenance register.
- ➢ Conduct the water audit.
- Monitor the water levels of all conservation system.
- Verify the water quality periodically.
- Measures to be taken to improve the water quality.

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