

# Shyamlal Pandviya Govt. Post Graduate College, Morar, Gwalior

## WATER CONSERVATION FACILITIES

1. Rain Water Harvesting
2. Borewell/Open well Recharge
3. Construction of Tanks and Bunds
4. Maintenance of Water Bodies and Distribution Systems in the Campus

### 1. Rain Water Harvesting

Rainwater harvesting involves gathering and storing precipitation that flows from roofs, parks, roads, open grounds, and other surfaces. This runoff can be stored or directed to replenish groundwater. Depleting groundwater levels, exacerbated by increased bore well suction and high demand for domestic, agricultural, and industrial purposes, necessitate measures like groundwater replenishment and rainwater harvesting, which are mandated by the government. To address this, our institution has implemented rainwater harvesting structures on campus to enhance groundwater recharge, consequently improving groundwater quality and levels. Specifically, rainwater from rooftops and campus runoff is collected in designated harvesting pits. Furthermore, the institution has conducted extensive tree-planting initiatives, resulting in a notable expansion of green areas across the campus. The related Geotagged photos are shown below;

#### Locations of Rain Water Harvesting Pits

- a) Main Entrance of Institution
- b) In front of Commerce Block
- c) Near Banyan Tree
- d) In front of Gymnasium Hall
- e) Sports Ground









**GPS Map Camera**  
Gwalior, Madhya Pradesh, India  
474006, Suri Nagar, Raghavpuram, Morar, Gwalior, Madhya Pradesh 474006, India  
Lat 26.240421°  
Long 78.226584°  
20/01/24 12:36 PM GMT +05:30



## 2. Borewell/Open well Recharge

Groundwater, commonly obtained through bore water, serves as the predominant water source. It is accessed by drilling into the ground and extracting water from aquifers. The campus of the institution relies entirely on groundwater to meet its water requirements. To fulfill the daily demand, three borewells have been strategically constructed at varying depths based on the subsoil water levels.

### Location of Borewell/Open well Recharge

- a) Borewell near the main gate
- b) Open well near the commerce department





### 3. Construction of Tanks and Bunds

As the water crisis continues to become severe, there is a dire need of reform in water management system and revival of traditional systems. As a part of Water conservation facilities that are available in the Institution, Water tanks and bunds are taken up and are provided in the campus. The related Geotagged photos are shown below:

#### Location of Construction of Tanks and Bunds

- a) Administrative block
- b) Library Block
- c) Science Block
- d) Arts Block
- e) Commerce Block



### 4. Maintenance of Water Bodies and Distribution Systems in the Campus

Water sourced externally is stored in a central tank, serving as the primary reservoir. Subsequently, it is pumped to the overhead tanks situated atop each building across the campus. The distributed water then caters to the various sections of the institution. Each building within the establishment is equipped with its overhead tank, ensuring a dedicated water supply for the entire institution. All facilities, including laboratories and washrooms, are seamlessly linked to these overhead water tanks, ensuring a consistent water supply. Special connections are specifically designated for providing RO water, intended for drinking purposes. The related Geotagged photos are shown below:

## Location of Maintenance of Water Bodies and Distribution Systems in the Campus

- a) Administrative block
- b) Library Block
- c) Science Block
- d) Arts Block
- e) Commerce Block

