



GURU NANAK COLLEGE BUDHLADA

Under the Management of Shiromani Gurdwara Parbandhak Committee, Sri Amritsar Sahib
Affiliated to Punjabi University, Patiala

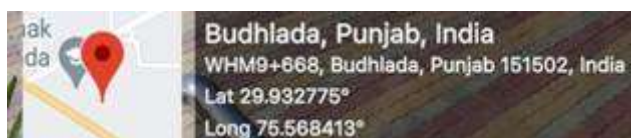
NAAC - SSR - Cycle - II

Maintenance of Water Bodies and Institutional Water Distribution System

Guru Nanak College, Budhlada is located in Malwa region of Punjab that receives very less rainfall i.e. 429 mm per annum. In this region population density is high and have good agricultural practices throughout the year due to that consumption of water are very high. Our institution has taken initiative to conserve water for the balance of demand and supply and implemented some practices of water conservation like roof water collection and bore well construction to recharge a ground by the use of excess water during rainfall water to aware students and local community.

Location: Budhlada, **Annual rainfall:** 429 mm

Longitude and latitude



College Total area is: 42491.99 m²

College Address: Guru Nanak College, Budhlada, District: Mansa, State: Punjab 151502.

Direct and Indirect Water Harvesting Facility

Bore well: College has one bore well that is well designed in order to ensure safe disposal collected water in the form of runoff from open area like lawn/field/road as well as roof.

- College administration is very precisely managing wastage of water at different levels like constructed low land area and underground drainage channel that is connected with each building for roof water harvesting and finally is discharged into ground water through bore well
- Direct water conservation of roof area of 25389 m² is used to harvest water and is discharged into ground through bore well.
- Open area of 8463 m² is used to observe rainwater for the recharge of ground water.
- Green belt area of 6347.25 m² is used to conserve excess rainwater and other forms of surplus water.
- Cemented bricks with micro space, in between, also allow conserving excess water during rain.



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- Recycling of water is done by collection of waste water from RO and is used in washroom/greenbelt for irrigation purpose.
- **More than 30 water tanks are fitted with total storage of volume of water is 75000 lit that circulated for drinking and other purpose.**
- Water distribution is maintained properly through storage tank and pipe line that is regularly maintained by college plumber.
- In the college premises high canopy tree like Neem, Pepal and Sesames are planted that cover ground and conserve soil moisture.
- College management is strongly committed to do practices that assure water sustainability in future.
- Innovative practices like use of mulching/crop residue to conserve moisture in agriculture field are continuously demonstrated at agriculture departments.
- Lab liquid waste water is collected and safe disposal is available near labs.
- To reduce water loss from tap instant off water saver type taps are installed on every drinking point.
- Institution has well planned infrastructure, and well developed two low area parks for the collection of water in rainy session and interconnected harvesting channel is used for the roof water of college premises that is used for ground water recharge.
- GI and polymer pipe network is used to circulate water in college premises and to avoid leakage and wastage of water. The college has adopted micro irrigation system. Permanent Plumber staff is available.
- The college organizes awareness programs, time to time, on water conservation practices.

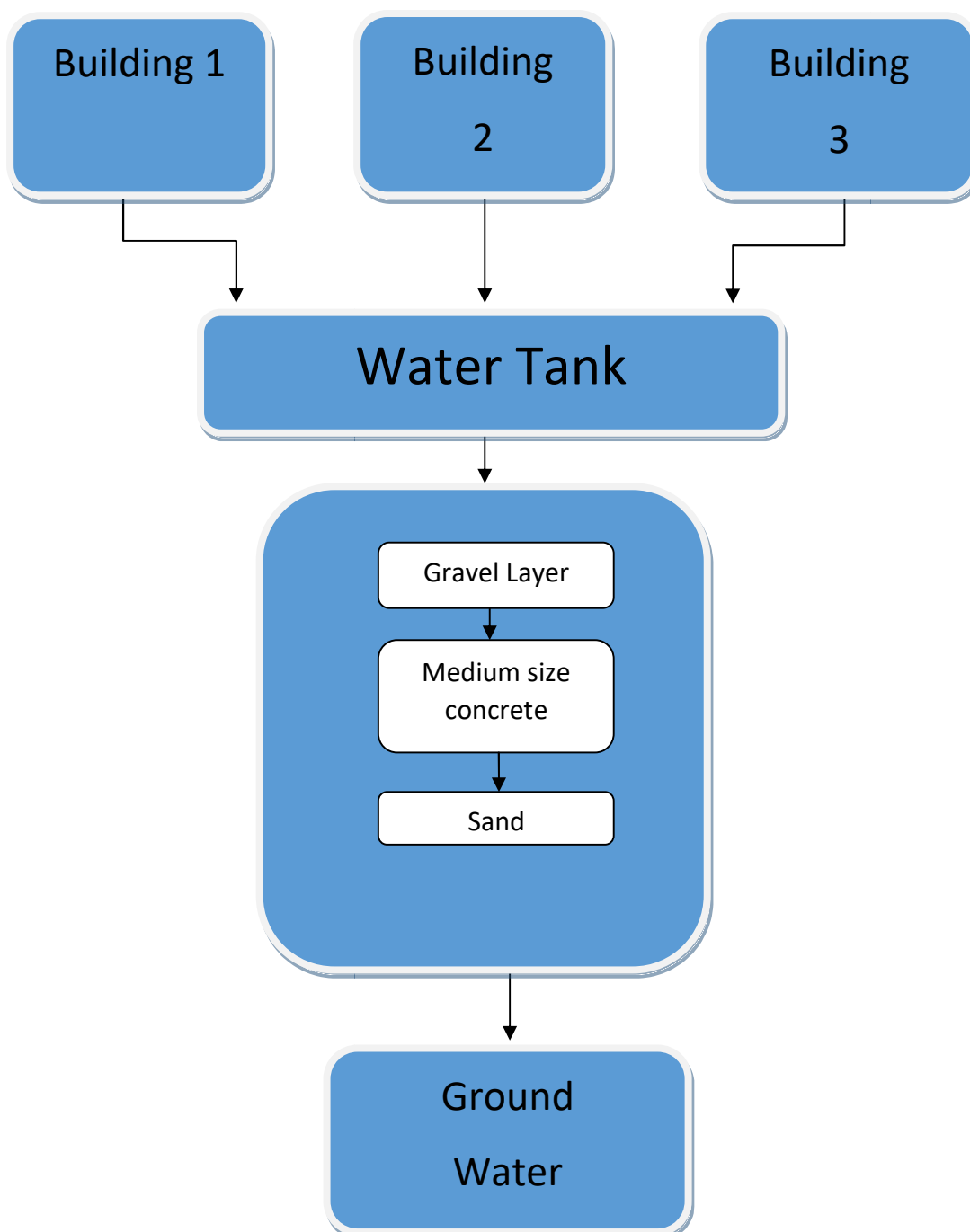


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Ground Water Harvesting Flow Diagram





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Water Collection Tanks at Various Places in Campus





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Waste water collected from RO system is used for irrigation of Green Belt

