

ਗੁਰੂ ਨਾਨਕ ਕਾਲਜ ਬੁਢਲਾਡਾ

ਸ਼੍ਰੋਮਣੀ ਗੁਰਦੁਆਰਾ ਪ੍ਰਬੰਧਕ ਕਮੇਟੀ, ਸ੍ਰੀ ਅੰਮ੍ਰਿਤਸਰ ਸਾਹਿਬ ਦੇ ਪ੍ਰਬੰਧ ਅਧੀਨ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ ਨਾਲ ਸਬੰਧਤ
ਨੈਕ ਵੱਲੋਂ 'ਏ++' ਗਰੇਡ ਪ੍ਰਮਾਣਿਤ
ਡੀ.ਬੀ.ਟੀ. ਭਾਰਤ ਸਰਕਾਰ ਵੱਲੋਂ 'ਸਟਾਰ ਕਾਲਜ ਸਕੀਮ' ਪ੍ਰਾਪਤ
ਭਾਰਤ ਸਰਕਾਰ ਵੱਲੋਂ 'ਸਕਿੱਲ ਹੱਬ' ਸੰਸਥਾ ਦਾ ਰੁਤਬਾ ਪ੍ਰਾਪਤ



Guru Nanak College Budhlada

Under the Management of S.G.P.C., Sri Amritsar Sahib
Affiliated to Punjabi University, Patiala
NAAC Accreditation "A++" Grade
Selected under 'Star College Scheme' by DBT, GOI
'Skill Hub' Institute Selected by NSDC, Govt. of India

Maintenance of Water Bodies and Institutional Water Distribution System

Guru Nanak College, Budhlada is located in Malwa region of Punjab that receive 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 incitation 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-Teh, District: Mansa, State: Punjab 1515102.

Direct and Indirect Water Harvesting Facility

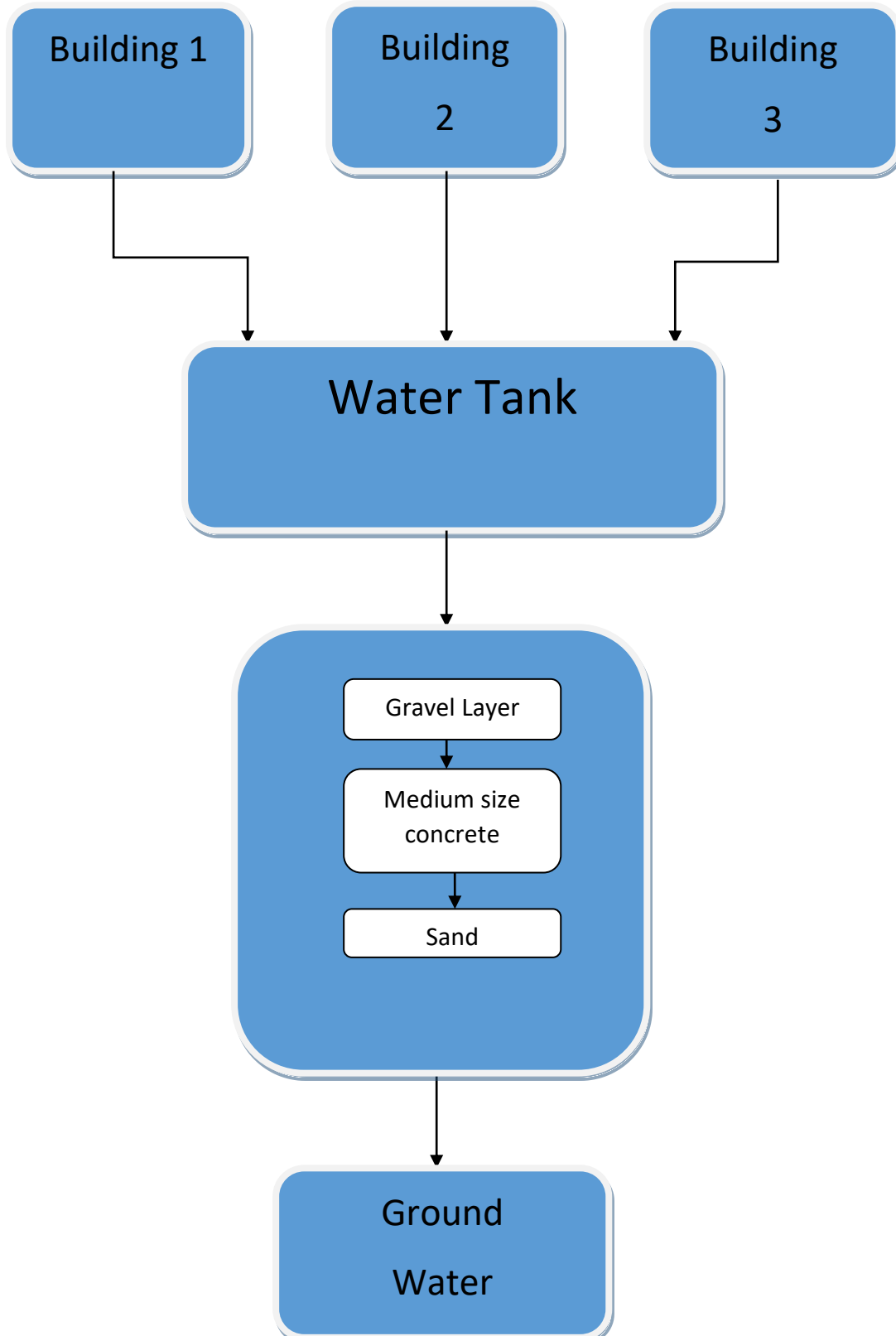
S. No.	Area specific	Area: m ²	Grass area m ²
1	Green belt Zone like lawn/plantation area	6347.25	6347.25
2	Open land (Play Ground)	8463	8463
3	Road/Paved area	2115.75	2115.75
4	Roof area of building	25389	25389
Total area		42315	

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

- College management is very precisely managing wastage of water at different level like constructed low land area and underground drainage channel that connected with each building for roof water harvesting and finally discharged into ground water through bore well
- Direct water conservation by roof area of 25389 m² to harvest water and discharge 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 used to conserve excess rainwater and other form of surplus water.
- Cemented bricks with micro space in between adjoin also allow to conserve excess water during rain.
- Recycling of water is done by collection of waste water from RO and 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 was maintained properly through storage tank and pipe line that regularly maintained by college plumber.
- In the college premises high canopy tree like Neem, Peepal and Sesames are planted that cover ground and conserve soil moisture.
- College management 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 continue demonstrated at agriculture departments.
- Lab liquid waste water collection and safe disposal
- To reduce water loss from tap Instant off water saver type tap is installed on each drinking points.
- Institution has well planned infrastructure, and well developed two low area parks for the collection of water in rainy session and interconnected harvesting channel for the roof water and 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.

Ground Water Harvesting Flow Diagram



Water Pump and derange networking



Water Collection Tanks at Various Places in Campus



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

