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**30.11.2022**

## Project Name: - Yogita Dental College and Hospital at Khed

**SUBJECT: - BORE WELL LOCATION AND RECHARGE PIT DETAILS**

### STORM WATER DRAINAGE

The storm drainage above ground will essentially cater for the seasonal rains. The major part of discharge will be from the roof. The flat roof will have a general slope of 1 in 100 in the screed towards the periphery.

Rain water outlets will be provided at the edges from where it will be carried down by downtake pipes to discharge into catch basins / chambers.

The basic storm water scheme is designed to eventually discharge into the nala adjoining the plot.

The rainfall intensity considered for design is 3 inches per hour. The basement drainage will be through covered channel drains. Dewatering submersible pumps inside the sumps will pump water from the sumps to storm water entrance chambers outside the basement below the ground.

Run-off from the ground, terrace and basement will be finally discharged into rain water harvesting pits below ground. The overflow from rain water harvesting pits will be discharged into storm water channel outside the plot. Invert level of this channel will have to be determined.

Design basis in brief shall be as follows:

- Peak Rainfall Intensity — 110 mm / Hr.
- Minimum pipe diameter — 150 mm
- Minimum velocity of flow — 0.6 m / sec
- Maximum velocity of flow — 3.0 m / sec
- Design flow conditions — Running full

### RAIN WATER HARVESTING

Storm water is discharged into recharge pit which will soak water into the ground. A recharge pit consists of 160 mm dia ( 2 nos) PVC perforated pipe drilled into the ground upto a depth of around 5 mt and is surrounded by media of brick bats and aggregates to soak the rain water. Thus ground water will be recharged. The overflow from rain water harvesting pits will be discharged into storm water channel outside the plot.

Design basis in brief shall be as follows:

It is proposed to carry Hydro geological survey of the total area for the following reasons-

- To ascertain overall rain water harvesting potential of the area.

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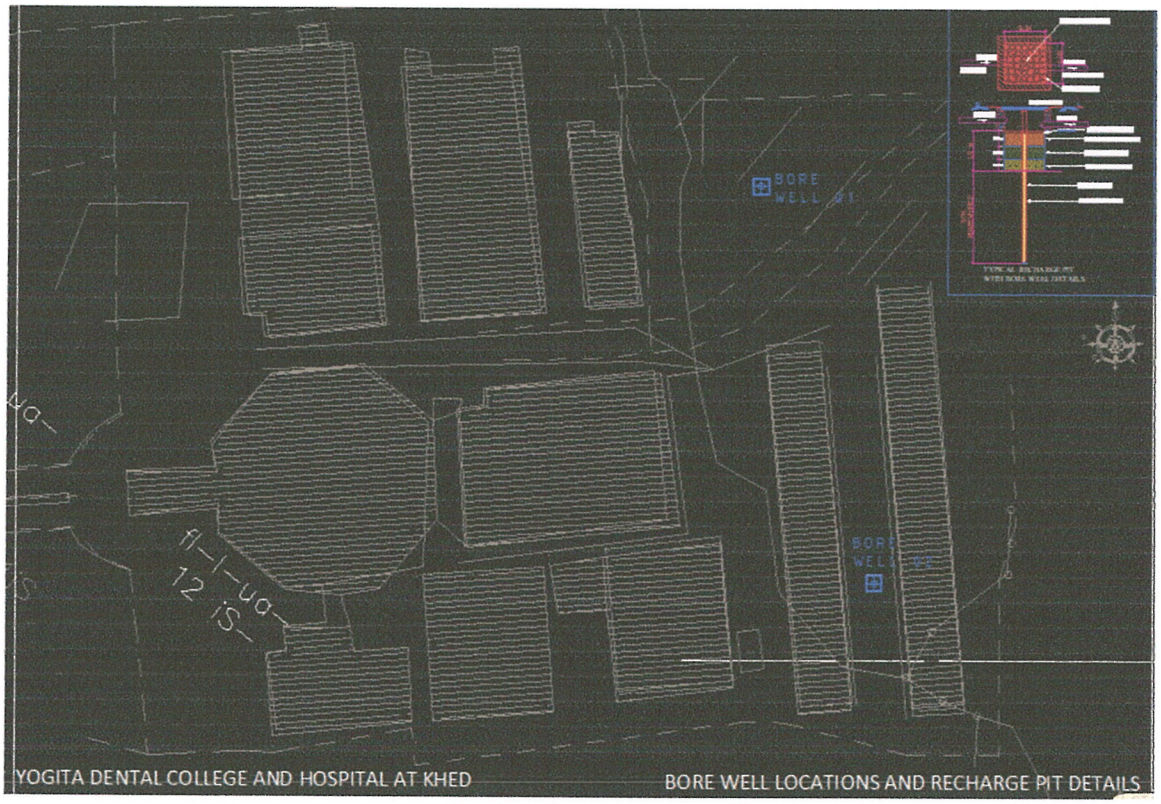
- To suggest the nos. & locations of recharge & production bores along with their details like depth, type of construction & harvesting potential.
- To shortlist the locations of production & recharge bores for water supply for flushing & landscape irrigation purpose.
- Based on the report of this survey, storm water is diverted to the nearest location of finally shortlisted locations of recharge bores (preferably along the route of storm water drain).
- The recharge bores are connected to the network to facilitate the overflow when bore is saturated.

## PROJECT BORE WELL LOCATIONS:




YOGITA DENTAL COLLEGE AND HOSPITAL AT KHED — BORE WELL LOCATIONS AND RECHARGE PIT DETAILS

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2022

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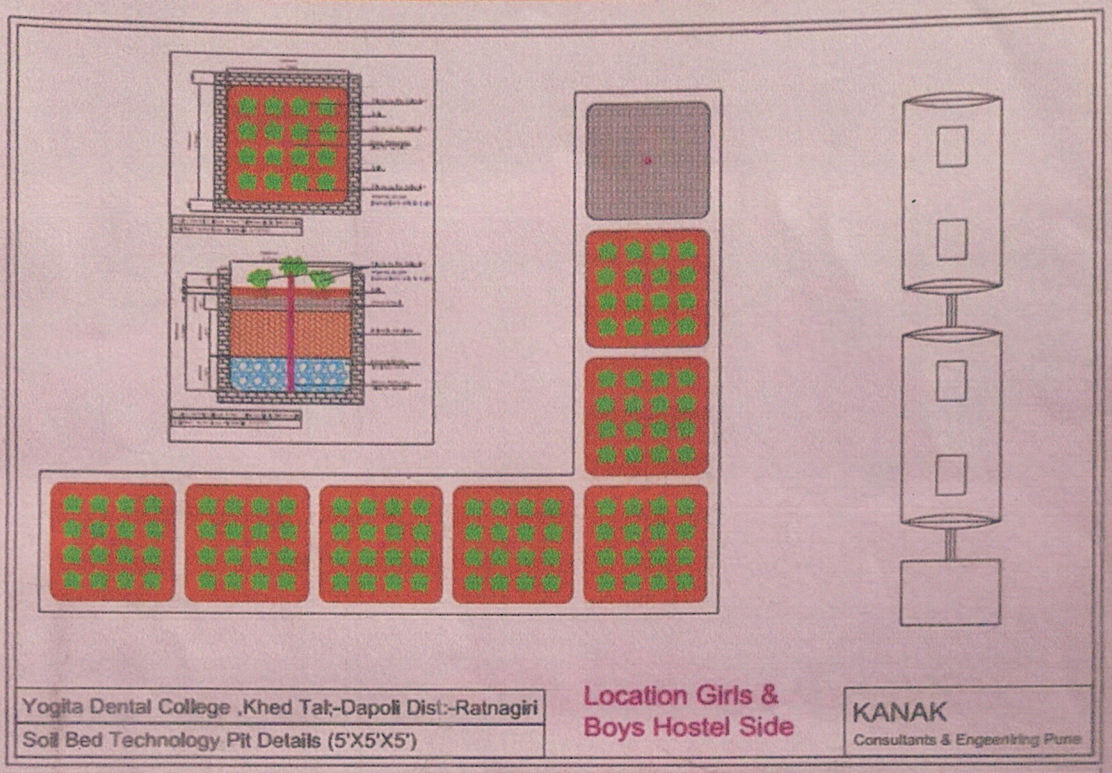

Yogita Dental College ,Khed Tal;-Dapoli Dist:-Ratnagiri
Soil Bed Technology Pit Details (5'X5'X5')

Location Girls & Boys Hostel Side

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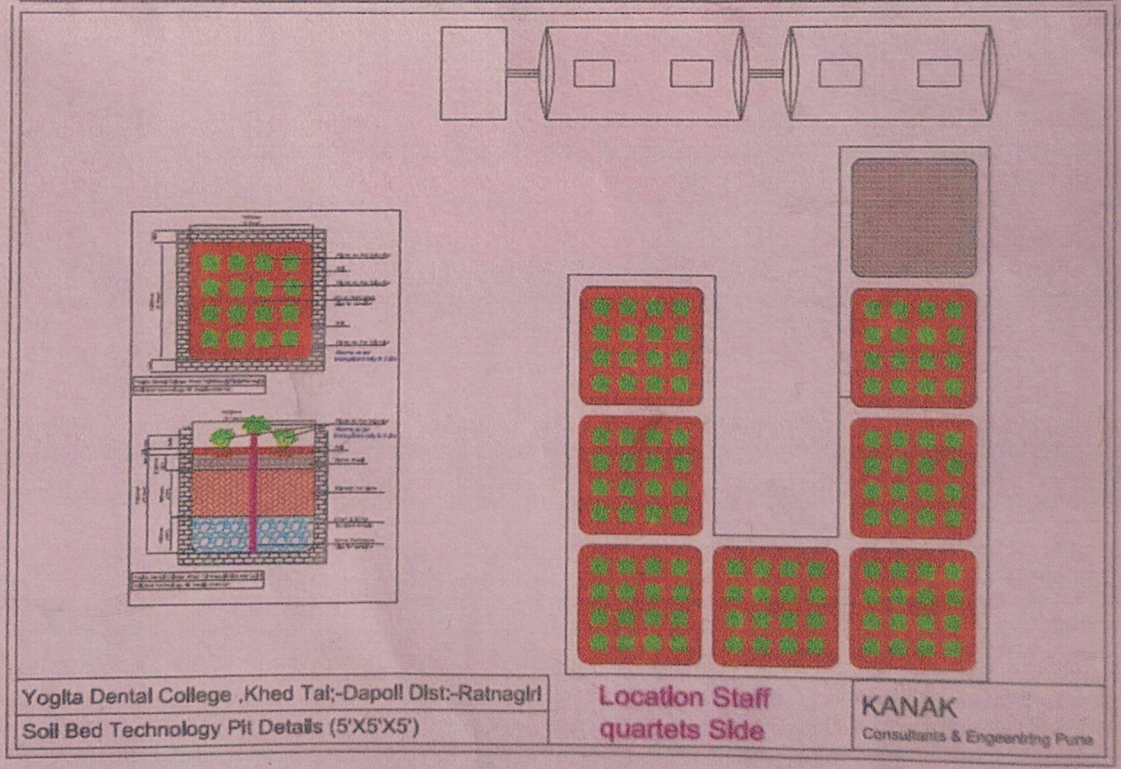

Yogita Dental College ,Khed Tal;-Dapoli Dist:-Ratnagiri
Soil Bed Technology Pit Details (5'X5'X5')

Location Staff quartets Side

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Date: 12/02/2022

# COMPLETION AND HANDOVER CERTIFICATE

This is to certify that **KANAK CONSULTANTS AND ENGINEERS,** Pune has completed the trial and commissioning of 2 nos. of **15 m3/day Sewage Treatment Plant (30 KLD STP) at two locations with all electromechanical equipment's for Yogita Hospital and Dental College, KHED** in all respect and to the complete satisfaction.

**Kanak Consultants and Engineers**

KANAK CONSULTANT & ENGINEERING
June 2022

**Yogita Hospital & Dental College**

YOGITA DENTAL COLLEGE & HOSPITAL
KHED (Reg.)

# Maintenance of water bodies and distribution system in campus

- The ground water is pumped into storage tanks located at different places in the campus.
- The water is distributed through well laid pipe network.
- Drinking water after treating in RO plant is supplied through a separate set of distribution pipes and water for all other purpose is supplied through another set of distribution pipes.
- Entire distribution system is well supervised by Civil works committee to ensure that there are no leakages and wastages of precious water through joints, valves etc.
- Waste usage of water is reduced using low pressure flushes.
- All the stakeholders of the college are well educated to use water economically and efficiently.

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## MAINTENANCE OF WATER BODIES AND DISTRIBUTION SYSTEM IN CAMPUS:

The water bodies are maintained regularly so as to provide sustainable, consistent, economic safe and adequate water to the campus. The main objective of the maintenance is to provide diseases free environment.

In the campus, the process of Chlorination will be carried out to kill bacteria, viruses and other microbes present in water. Mainly it is carried out to prevent the spread of water borne diseases like cholera, dysentery and typhoid etc.

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**Management of Degradable and Non-Degradable waste Composting:**

Organic compostable materials were composted and reused. The soil generated with composting is used for gardening. This also limited the amount of land fill waste generated.

**Solid Waste management –**

**Food:**

One of the best practices of the institution is the managing the waste food of the mess, Which is being utilized in dumping in an area designated for it where the animals do eat it and later on the remaining when in turns into organic fertilizer is being used into the garden of the campus and hence forth the cycle of waste food management if being done perfectly.

**Biomedical waste management**

Bio hazardous and medical waste management are handled differently. The waste is divided into Bio hazardous liquid waste and Bio hazardous solid waste. They are segregated and treated according to proper protocols recommended by the in house committee for infection control and the private authorized Bio hazardous and medical waste management agency hired by the institute.

Current procedures in campus for disposing medical waste include coordinating appropriate storage and ultimate disposal of the material abided by the rules of the land and disposed through contracted authorized waste disposing agency.

organization. Equipment's, batteries and computers which are not functional or of no use are sent to recycling.

Compost pits are used on regular basis in the campus for dumping of the organic waste which ultimately results into management of organic waste also and results into organic fertilizers also which interne is used up in the gardens.

Institution also encourages students for the use of recycled paper.

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