



VISVESVARAYA TECHNOLOGICAL UNIVERSITY

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

"Jnana Sangama", Belagavi - 590 018, Karnataka State, INDIA

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Prof. A. S. Deshpande, B.E(Mech), M.Tech., Ph.D.
Registrar

Ref. No.: VTU/PS/2020-21/ 5219

Date: 12 JAN 2021

To,
The Special Secretary to Governor,
Karnataka Governor's Secretariat,
Raj Bhavan,
Bengaluru - 560 001.

Sir,

Sub: Submission of action taken report in adopting Rain Water Harvesting system at VTU, Belagavi.

Ref: Letter No. GS 63 EST 2020 dated 06.11.2020 from the Karnataka Governor's Secretariat, Raj Bhavan, Bengaluru.

This is with reference to the above subject, we are submitting herewith the action taken report in adopting Rain Water Harvesting system at VTU, Belagavi along with relevant pictures for your kind information. The same information has been sent through email to the Minister for Jal Shakti, Govt. of India, email Id:md.nwm@gov.in/catchtherain.nwm@gmail.com.

I request you to bring this information to the kind notice of Hon'ble Governor of Karnataka and Chancellor of the University.

Thanking you,

Encl: as above.

Yours faithfully,


12.1.2021
Registrar
B.S.B.

Copy to:

1. Minister for Jal Shakti, Government of India, 2010, Shram Shakti Bhawan, Rafi Marg, New Delhi- 110 001.
2. The Secretary to VC, VTU, Belagavi



ವಿಶ್ವೇಶ್ವರಯ್ಯ, ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ
Visvesvaraya Technological University

“Jnana Sangama”, Belagavi - 590 018, Karnataka State

Annexeure-1

I. Details of existing Rain Water Harvesting Structures and Reuse of water at VTU campus Belagavi

Visvesvaraya Technological University Campus is located on 114 Acres of land. The land is situated in Machche Village limits off Belgaum – Jamboti road at a distance of 13 Kms from Belgaum city. The land is surrounded by lush greenery and having a gentle slope towards the south side. Monsoon starts from June to September. The average Rainfall is about 1278 mm per year.

The following are the details of Rain water harvesting structure and Reuse of water at the campus

- A. There is a Natural Nalla which flows within the campus from North to south close to Sports Complex and Tennis court Building. During Manson nalla runs at full level . Therefore a Check Dam is constructed across the nalla near Boys hostel which is also act as Bridge to cross the nalla. The water stored during Monsoon on helps in ground water to get recharged
- B. Side drains are provided all along the ring roads, which feed 17 nos of recharge pits which are provided along the ring road within the campus, helps to improve ground water recharge. There are several Trenches made within the campus to cut off the rain water flow and water is collected in these trenches. Storage Ponds have been created at few places for recharge of Ground water table.
- C. The Rain water from the roof top is collected through the separate pipeline system which is used to feed the soak pits to recharge ground water.
- D. The University has established Sewage Treatment Plant and the waste water & sewage water is being treated, the treated water is being used for gardening purpose

II. Details of proposed Rain Water Harvesting system & Recharges of Bore wells at VTU campus, Belagavi :

- A. It is proposed to have a comprehensive plan for installing Rain water harvesting system within the campus and to store roof water from the different buildings. The detailed

study has been conducted by *Karnataka state Council for Science and Technology, Indian Institute of Science , Bengaluru*. The Study suggests that around 590 ML in the campus and 115 ML of rain water can be harvested annually from the selected building respectively with an average rainfall of 1278mm. The total cost of the project is Rs.27.10 Lakhs. The work is approved in the Estate Board and Executive Council and tender will be invited shortly.

- B. The existing four bore wells inside the campus, which are defunct or less yielding are being proposed for replenishment & recharging of the bore wells. Therefore, the tender for conserving, replenishing & to recharge the existing bore wells within the campus was invited and the work has been awarded for Rs 4,59,999.00 and work is in progress.
- C. Further the Dual piping system for buildings will be proposed for reuse of grey water after primary filtration for flushing system & gardening



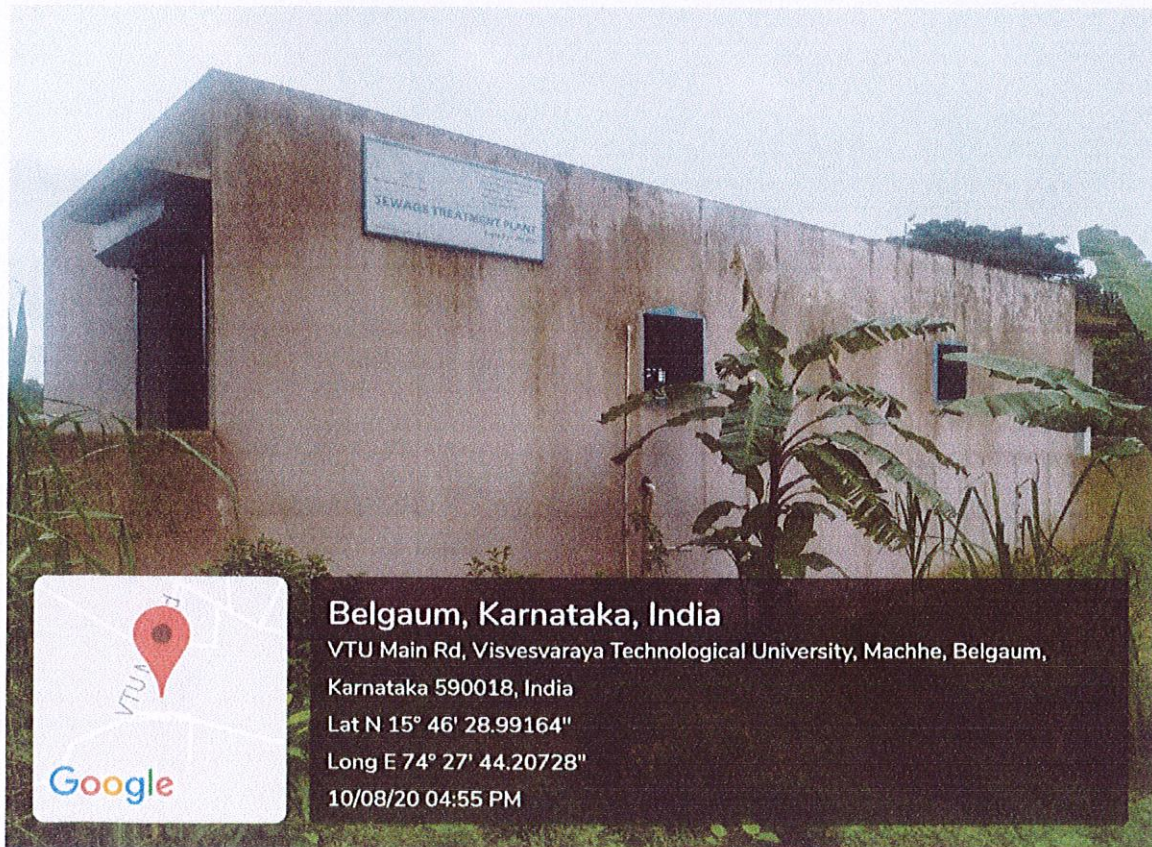
Check Dam



Check Dam



Water storage at Check Dam



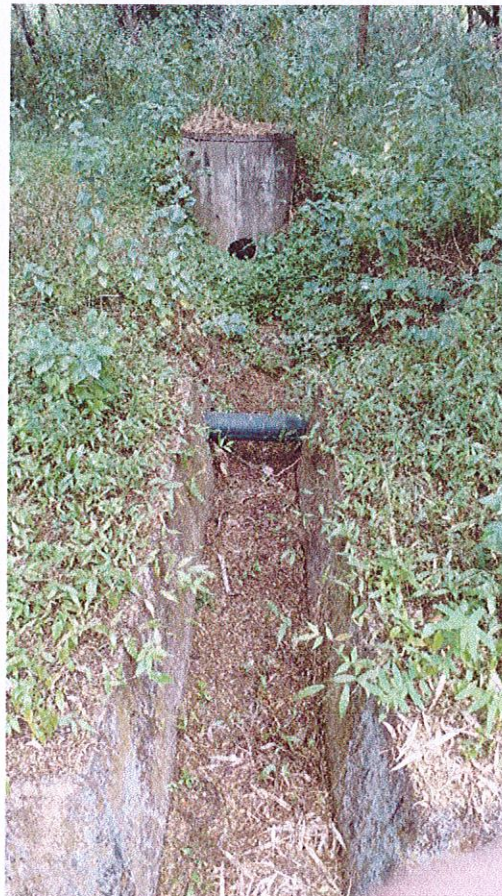
Sewage Treatment Plant



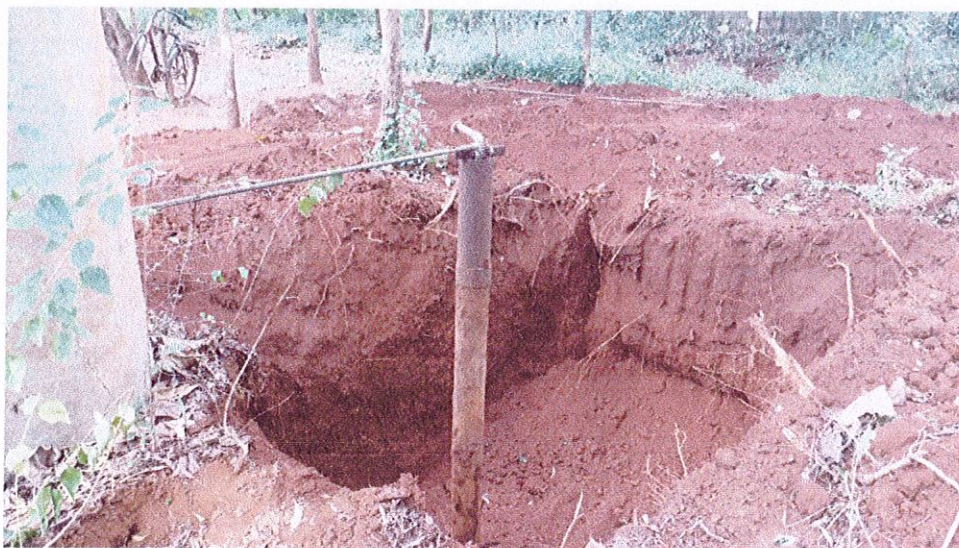
Recharge pits along the Ring Road



Recharge pits along the Ring Road



Recharge pits along the Ring Road



Work in progress for Rainwater harvesting to recharges Bore wells



Work in progress for Rainwater harvesting to recharges Bore wells



Trenches for Rainwater harvesting