

4. Waste water recycling

Recycling wastewater in VISTAS reduces the demand for freshwater sources, helping to conserve precious water resources, especially in regions prone to drought or water scarcity.

Recycling wastewater aligns with sustainability goals and demonstrates the University commitment to environmental responsibility.

Sewage Treatment Plant (STP) and Effluent Treatment Plant (ETP) contribute to wastewater recycling efforts by treating water to a quality level suitable for reuse.

VISTAS installed both STPs and ETPs at various campus. Recycled water from STPs and ETPs can be utilized for various purposes such as gardening, irrigation, toilet flushing, and groundwater recharge. Proper treatment and disinfection processes are done to ensure the recycled water meets the required standards to prevent the spread of waterborne diseases or environmental contamination.

Sewage Treatment Plant (STP)

The Capacity of STP is 2, 50,000 in litres per Day and the regular wastewater treated in the Vels Medical Campus campus is 2,00,000 litres. The Capacity of STP is 1,00,000 in litres per Day and the regular waste water treated in the Vels Thalambur Campus STPs is used for gardening purpose and pond maintenance. The Capacity of STP is 3, 30,000 in litres per Day. The treated water is widely used for gardening purposes inside the campus.



VMCH CAMPUS – STP

STP 250 KLD DETAILS - Capacity in Litres per Day				
Plant in Litres	Daily Water used	STP Capacity	Treated water	Reused for Garden
STP 250000	200000	250000	200000	200000

VMCH CAMPUS – Effluent Treatment Plant (ETP)

Effluent Treatment Plant (ETP) is the facility intended to treat the hospital medical waste and effluent water content produced by the medical college beforehand it is released outside will not harm the public health and the environment.

Safeguarding and Protecting the Campus environment: It treats the possibly hazardous excess from medical activities, avoiding contamination of the natural water bodies. By treating, it provides safety to further infections.

VMCH CAMPUS ETP

ETP 50 KLD and 20 KLD DETAILS - Capacity in Litres per Day				
Plant in Litres	Raw Water input	ETP Capacity	Treated water	Sent to STP
Laundry ETP-50 000	30000	50000	30000	200000
BIO ETP-20 000	10000	20000	10000	200000



WASTE WATER RECYLING SYSTEM (STP) AT MEDICAL CAMPUS



India

748F+PP, Bandikavanoor, Tamilnadu 601101

Lat 12.761292°

Long 80.20406°

22/04/24 02:04 PM GMT +5:30

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Vels Institute of Science, Technology

SEWAGE TREATMENT PLANT (STP) AT MEDICAL CAMPUS



**SEWAGE TREATMENT PLANT (STP) PROCESSED WATER
COLLECTION TANK AT MEDICAL CAMPUS**



India
748F+PP, Bandikavanoor, Tamilnadu 601101
Lat 12.761292°
Long 80.20406°
22/04/24 02:04 PM GMT +5:30

SEWAGE TREATMENT PLANT (STP) AT MARINE CAMPUS



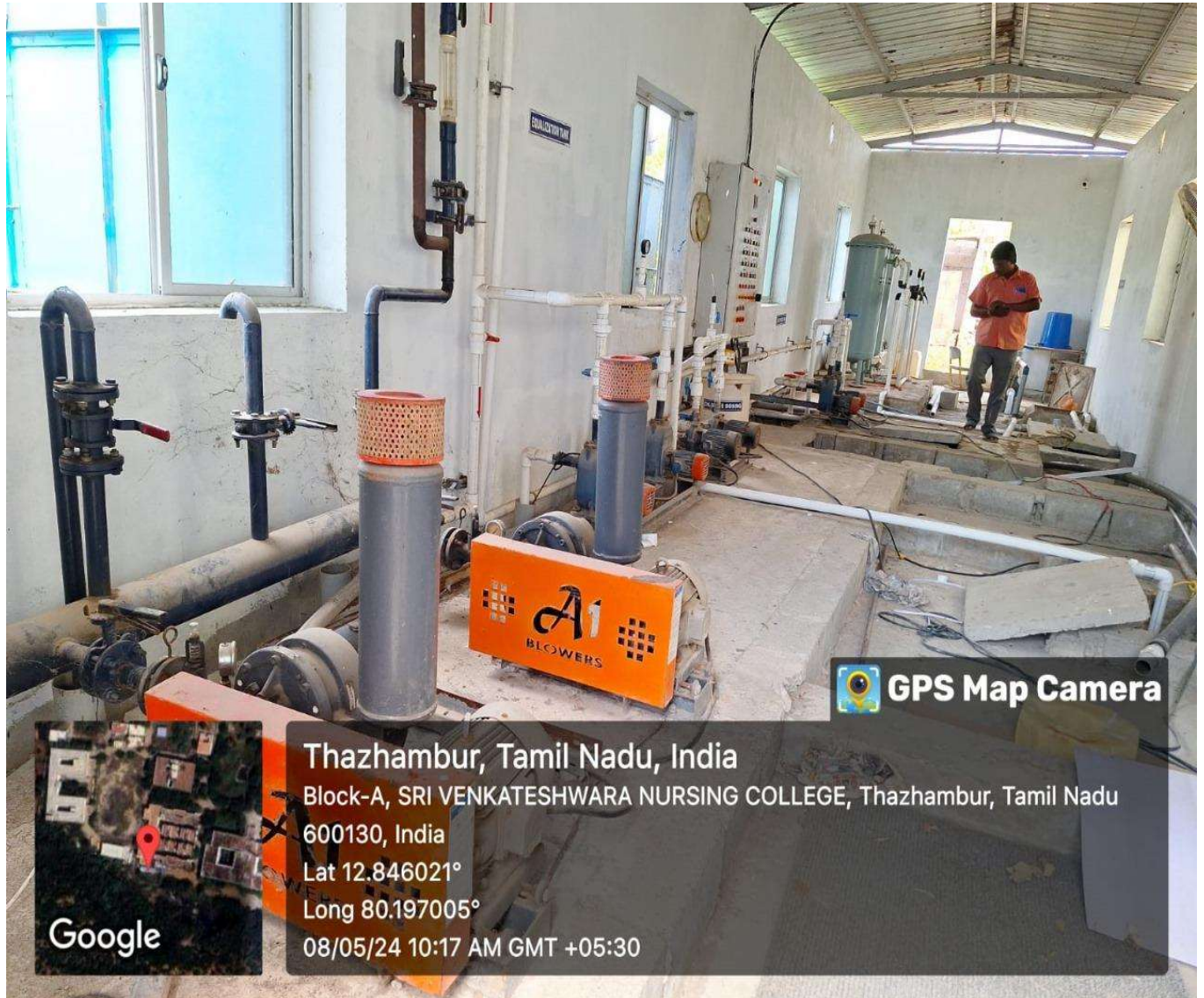
SEWAGE TREATMENT PLANT (STP) AT MARINE CAMPUS



Vels University Marine
STP
10.05.2024 10:24
12.84915, 80.19709
Altitude: -71m
Block-C, Thazhambur 600130



SEWAGE TREATMENT PLANT TANK AT THAZHAMBUR CAMPUS



SEWAGE TREATMENT PLANT (STP) - FILTRATION UNITS FOR WASTE WATER AT THAZHAMBUR CAMPUS



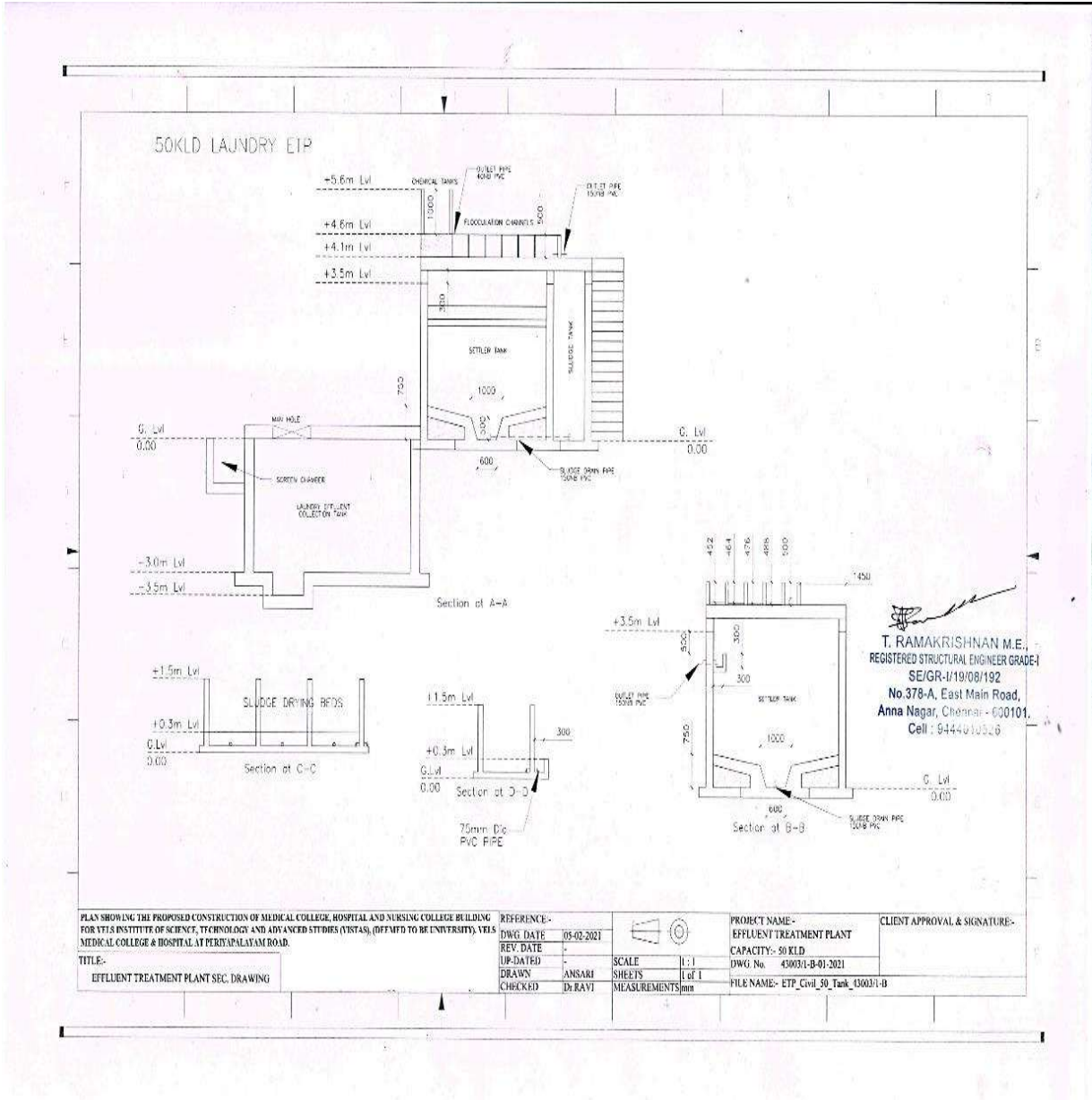
EFFLUENT TREATMENT PLANT (ETP) AT MEDICAL CAMPUS




LAUNDRY EFFLUENT TREATMENT PLANT (ETP) AT MEDICAL CAMPUS



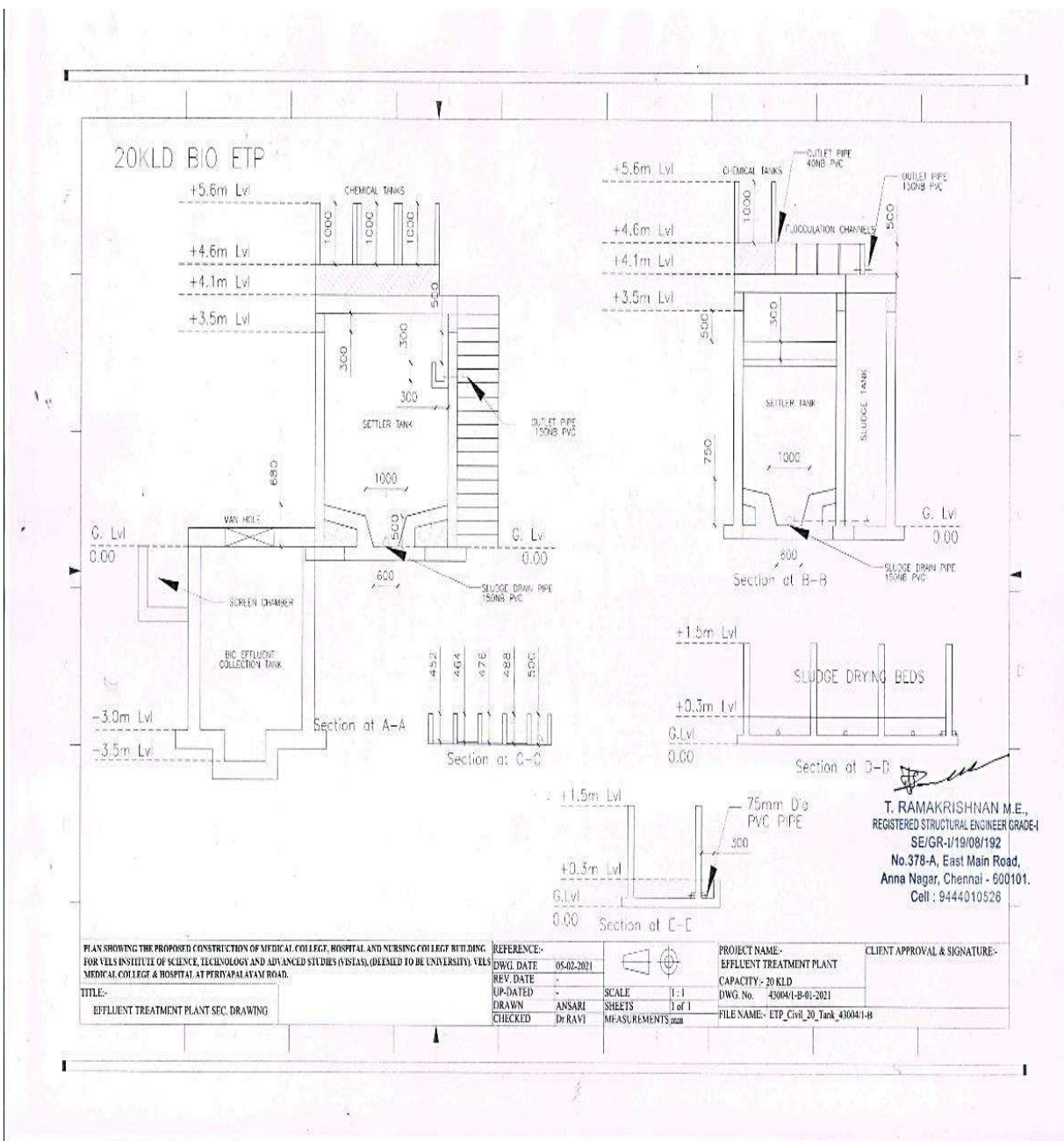
ETP PLAN DETAILS OF 50 KLD



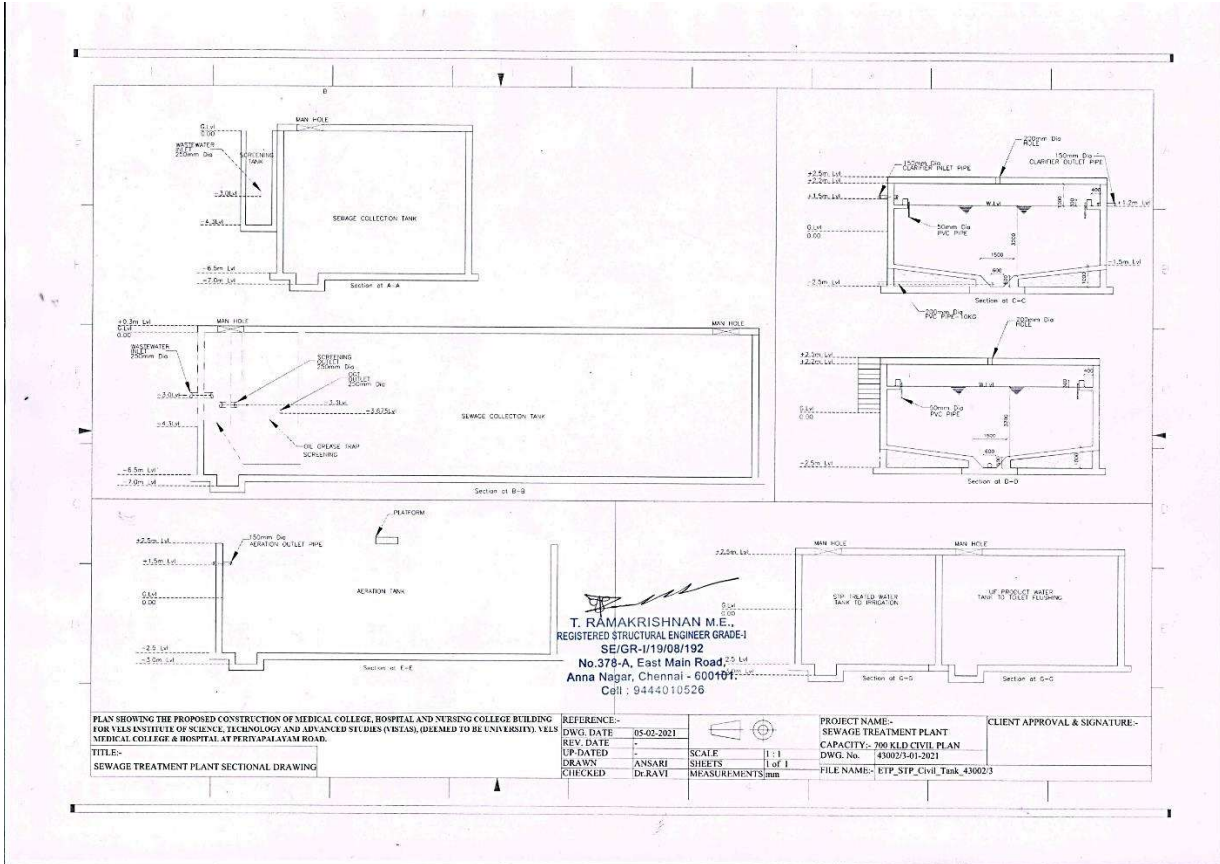

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 Cell : 9444010326

PLANS SHOWING THE PROPOSED CONSTRUCTION OF MEDICAL COLLEGE, HOSPITAL AND NURSING COLLEGE BUILDING FOR VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS), (OFF CAMPUS TO BE UNIVERSITY) VELS MEDICAL COLLEGE & HOSPITAL AT PERIYAPALAYAM ROAD. TITLE:- EFFLUENT TREATMENT PLANT SEC. DRAWING	REFERENCE:- DWG. DATE 05-02-2021 REV. DATE - I/P. DATE/D - DRAWN ANSARI CHECKED DR. RAVI	 SCALE 1:1 SHEETS 1 of 1 MEASUREMENTS mm	PROJECT NAME:- EFFLUENT TREATMENT PLANT CAPACITY: 50 KLD DWG. No. 430031-B-01-2021 FILE NAME:- ETP_Civil_30_Tank_430031-B	CLIENT APPROVAL & SIGNATURE:-
	(This row is intentionally left blank for client approval and signature)			

ETP PLAN DETAILS OF 20 KLD



STP PLAN DETAILS OF 250 KLD WITH THE CIVIL WORK PLAN FOR 700 KLD

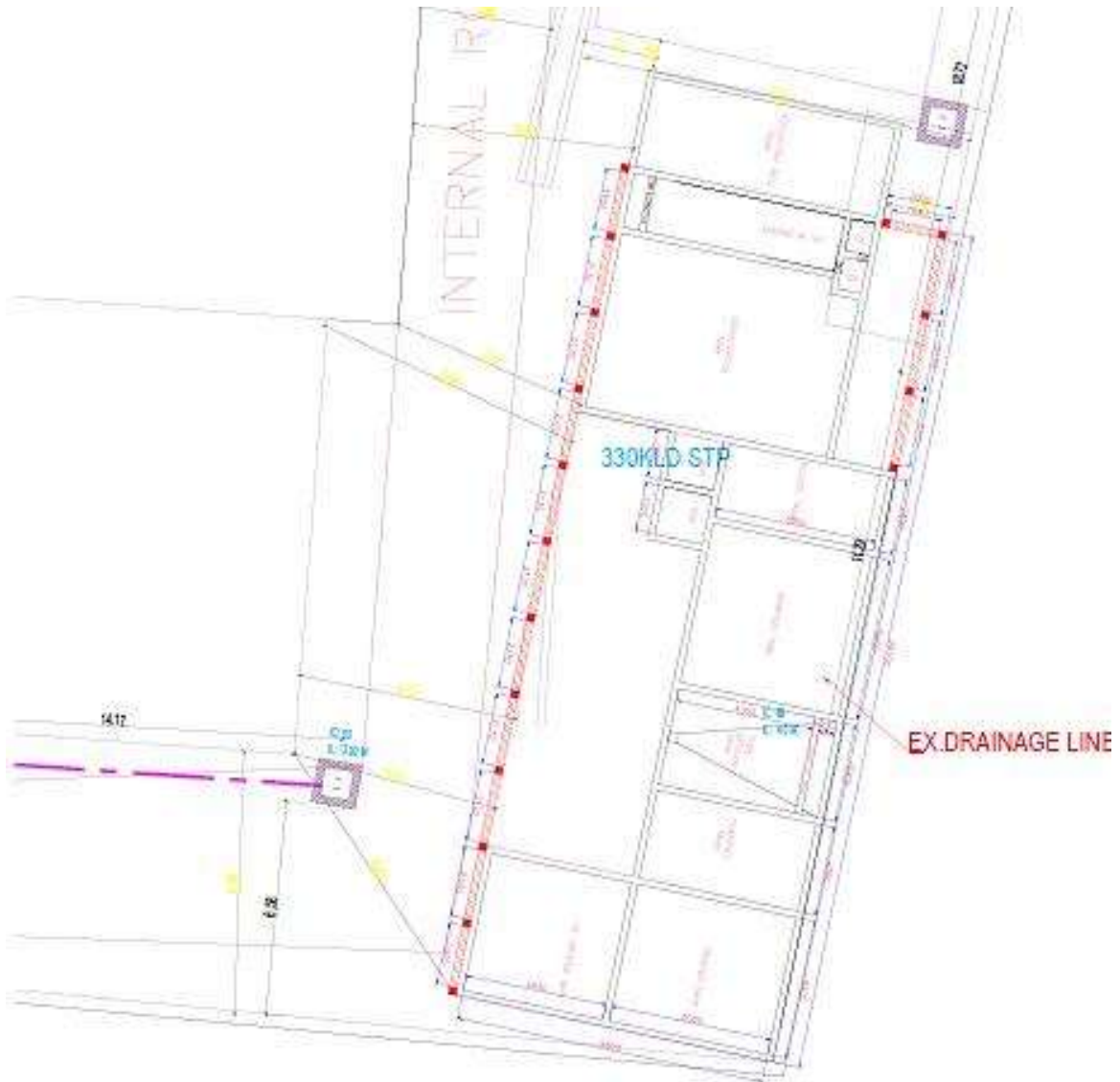



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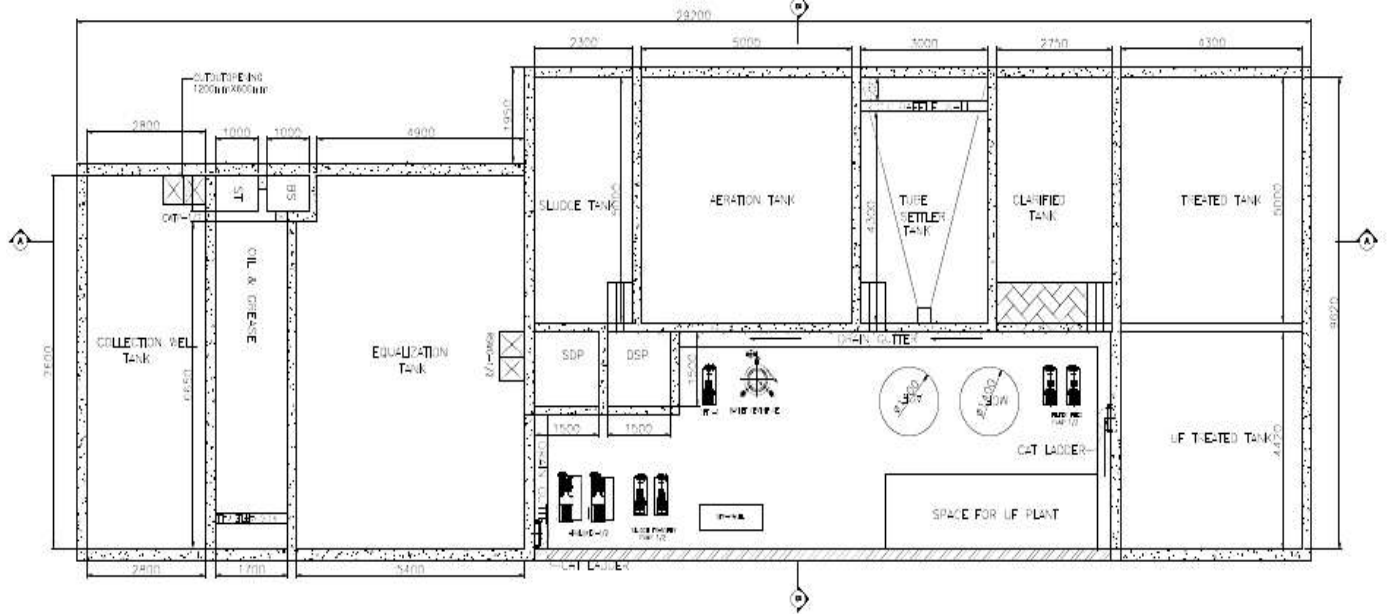
VELS UNIVERSITY CAMPUS, PALLAVARAM – STP LAYOUT

STP 250 KLD DETAILS - Capacity in Litres per Day				
Plant in Ltrs	Daily Water used	STP Capacity	Treated water	Reused for Garden
STP 3,30,000	2,50,000	3,30,000	2,50,000	2,50,000

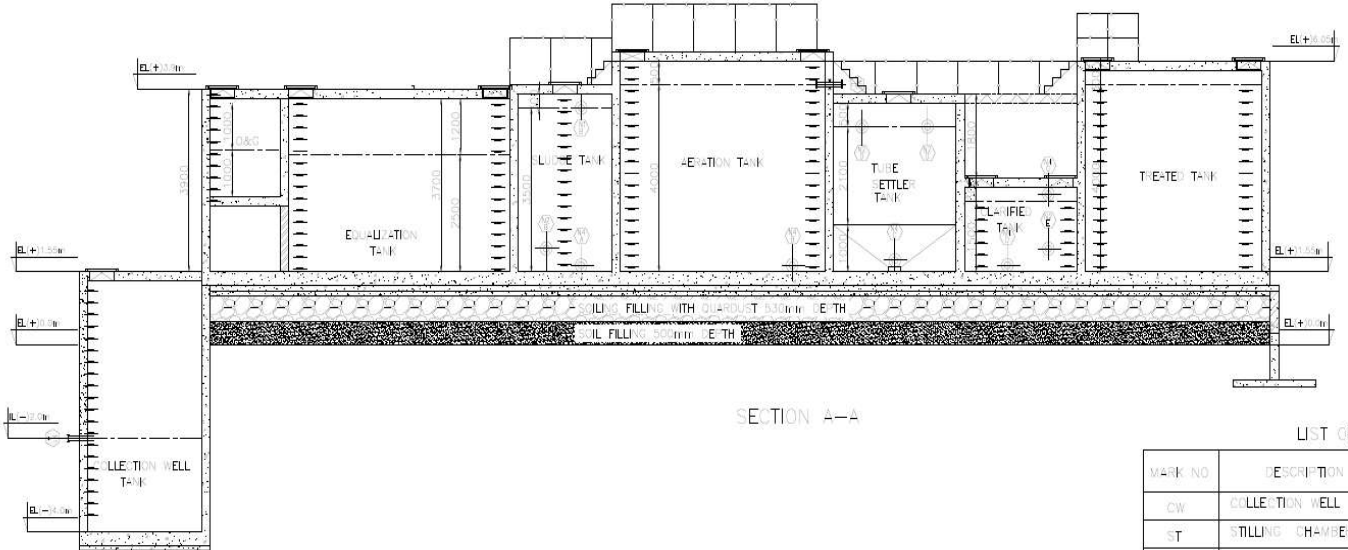
The 330 Kiloliters per Day STP Plant is constructed for the waste water treatment process.



STP PLAN DETAILS OF 330 KLD



PLAN



SECTION A-A

LIST OF

MARK NO	DESCRIPTION
CW	COLLECTION WELL
ST	STILLING CHAMBER
BS	BAR SCREEN PIT
O&G	OIL & GREASE CH-

USAGE OF RECYCLED WATER – GARDENING



USAGE OF RECYCLED WATER – GARDENING



MAINTANENCE OF POND IN CAMPUS USING RECYCLED WATER

