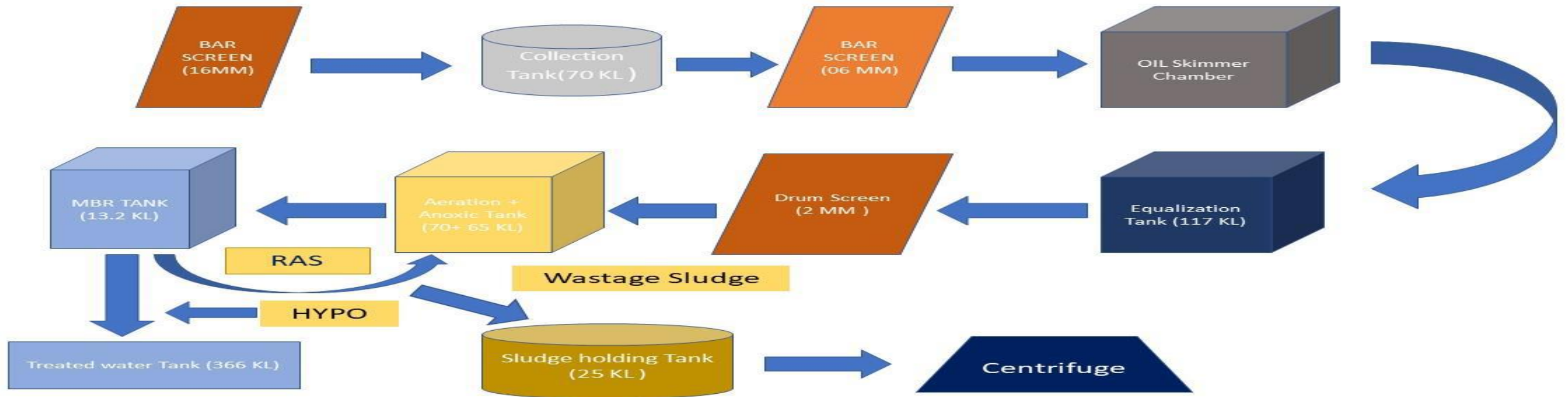




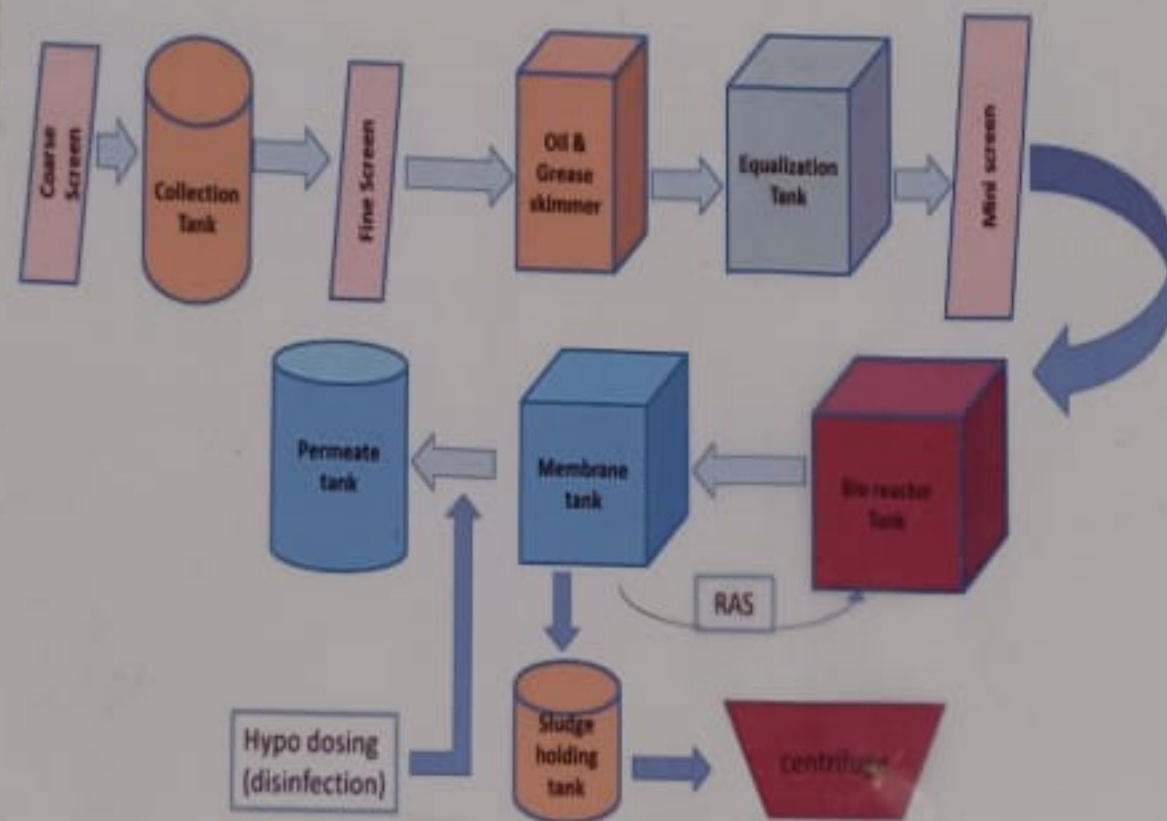
PROCESS FLOW CHART –STP (350 KLD)



Process description of STP plant

1	Coarse Screen: -	Provided to remove screen particles greater than 16 mm.
2	Fine Screen : -	To remove any screen particles greater than 6 mm.
3	Collection Tank: -	To transfer raw sewage to Oil and Grease Skimmer.
4	Oil & Grease skimmer: -	To separate coarse particles and oil & grease respectively.
5	Equalization tank: -	Homogenization of the effluent and feed the flow uniformly in secondary process.
6	Drum Screen / Mini Screen: -	To separate particles greater than 2mm size before entering to Bioreactor.
7	Bioreactor tank: -	Aeration tank is provided with bacterial culture to reduce organic pollutants in presence of oxygen.
8	MBR tanks: -	Provided with Cassettes of membranes to separate water from mix liquid suspended solids.
9	Sludge holding tank: -	Wastage sludge stored in to this tank.
10	Centrifuge: -	Solid liquid separation of sludge.
11	Disinfection: -	HYPO dosing in to treated water discharge line.
12	Permeate tank: -	Treated water stored in this tank to supply for Horticulture & Flushing.

STP – PROCESS FLOW CHART



- **Coarse Screen:** Provided to remove screen particles greater than 16 mm.
- **Fine Screen:** To remove any screen particles greater than 6 mm.
- **Collection Tank:** To transfer raw sewage to Oil and Grease Skimmer.
- **Oil & Grease skimmer:** To separate coarse particles and oil & grease respectively.
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- **Bioreactor tank:** Aeration tank is provided with bacterial culture to reduce organic pollutants in presence of oxygen.
- **MBR tanks:** Provided with Cassettes of membranes to separate water from mix liquid suspended solids.
- **Sludge holding tank:** wastage sludge stored in to this tank.
- **Centrifuge:** Solid liquid separation of sludge.
- **Disinfection:** HYPO dosing in to treated water discharge line.
- **Permeate tank:** treated water stored in this tank.

ACQUIRE SOLUTION ENVIRO ENGINEERS | 07/11/2023

	350KLD	150KLD	UGR	MUJ	FACULTY
T.P.					
H.	7.7	-	P.H.	-	7.5
D.S.	804	-	HARDNESS	-	06
TURBIDITY	-	-	T.D.S.	-	691
PPRO	-0.48	-	TURBIDITY	-	-
LET	230 m ³	-	F.R.C.	-	0.2
T-LET	181 m ³	-	PRODUCTION	-	32 m ³
ERGY, KW	317	06	REG.	-	Done
DGE waste.	-	-			
V-30	950	-			
D.O.	-	-			

⇒ D.O. Meter Not Calibrate
 ⇒ Tab Meter (N/w)
 ⇒ U.P.S. (N/w) properly

MUJ-UGR = Filter feed Pump N. 1, 2 sent for Maintenance. (25/10/2023)