RASHTREEYA SIKSHANA SAMITHI TRUST

RV COLLEGE OF ENGINEERING®

(Autonomous Institution affiliated to Visvesvaraya Technological University, Belagavi)
Approved by All India Council for Technical Education, New Delhi.

Specifications of Sewage Treatment Plant

Specifications: 250 KLD STP Based on SBR Process
Working Hours : 24 Hours
F/M Ratio : 0.2
MLSS : 3500 - 4500 MG/Litre
Oxygen Required: 2 KG/KG of BOD
Filtration Velocity: 20 $M^3/hr/m^2$

S No	Details	Equipment	Quantity	Tech. Details
1.0	Wet well-3	Raw Sewage Transfer Pump	01 (One)	2 HP Pump Distance 750 Feet to STP
2.0	Wet well-4	Raw Sewage Transfer Pump	01 (One)	2 HP Pump Distance 620 Feet to STP
3.0	Raw Sewage Collection Tank	Concrete Tank	240 KL	L-34 Feet, W=17 Feet, H=15 feet
4.0	Raw Sewage Transfer Pump to SBR	Raw Sewage Submersible Cutter Pump	02 (Two) D+S	Flow= 80KL/hour @10 MH
5.0	Aeration Tank (SBR Tank)	Concrete Tank	300 KL	L-42 Feet, W=17 Feet, H=15 Feet
6.0	Blower-1	Blovac Blower	125 CM/Hr	Twin Lobe Airblower
7.0	Blower-2	Blovac Blower	125 CM/Hr	Twin Lobe Airblower
8.0	Blower-3	Blovac Blower	220 CM/Hr	Twin Lobe Airblower
9.0	Decant Water Transfer Pump - 1	Kirloskar	35 M^3/Hr	Submersible Pump
10.0	Decant Water Transfer Pump - 2	Kirloskar	35 M^3/Hr	Submersible Pump
11.0	Filter Feed Pump 1	Shakti	35 M^3/Hr	Mono bloc Pump
12.0	Filter Feed Pump 2	Shakti	35 M^3/Hr	Mono bloc Pump
13.0	Sand Filter	---	35 M^3/Hr	Dia 1500MMXH 1500 MM
14.0	Carbon Filter	---	35 M^3/Hr	Dia1000MMXH 2300 MM

R V Vidyaniketan Post, Mysuru Road, Bengaluru – 560 059. Karnataka, INDIA.
Phone: +91-080-67178000/01/02   Fax: +91-080-67178011   e-mail: principal@rvce.edu.in
Website: www.rvce.edu.in

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| 15.0 | Disinfection System | E- Dose Chemical Dosing Pump | 0-6 LPH | Chlorine Dosing System |
| 16.0 | Final Treated Water Tank | Concrete Tank | 128 KL | L-16 Feet, W=19 Feet, H=15 Feet |

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