



SRES's
SHREE RAMCHANDRA COLLEGE OF ENGINEERING
Lonikand, Pune – 412216

Date: 16/06/2022

REPORT OF SEWAGE TREATMENT PLANT

- ❖ **TITLE:** Sewage Treatment Plant
- ❖ **NAME OF INSTITUTE:** Shree Ramchandra college of Engineering Lonikand, Pune
- ❖ **NAME OF SUPPLIER:** Panshul Engineering & Chemicals Pvt. Ltd.
- ❖ **QUOTATION REF:** 155/PECPL/STP/21/03 **Date:** 21-03-2022, R-2
- ❖ **NATURE OF WASTE WATER:** Sewage
- ❖ **CAPACITY:** 30 KLD
- ❖ **Technology:** Moving Bed Biofilm Reactor (MBBR)
- ❖ **Cost of Design supply & Installation commissioning of sewage treatment plant=** RS 5.75000.00
- ❖ **Cost of Civil work (Construction & Material Cost of Wastewater Tank):**
Rs 214000.00 + Rs 3,55000.00 = Rs 5,69000.00
- ❖ **Contact Person of Civil work:** More Contractor (+91 9096698901)
- ❖ **Contact Person of Panshul Engineering & Chemical Pvt. Ltd.** Appaso Jangam (+91 9923918207)

Objective:

1. To treat the Wastewater and make it safe for human and environmental contact. Physical processes treat the wastewater by solid-liquid separation or biological functions like aerobic digestion.
2. To protect the environment from water pollution by removing contaminants such as bacteria, nutrients, chemicals and particulates, which are harmful.
3. Eco –friendly green development
4. Sewage Treatment & recycle.

Processes involved are under:

Primary Treatment	Secondary Treatment	Tertiary Treatment
Bar screen chamber	Aeration tank	filtration
Oil and grease chamber	Secondary Clarifier	Disinfection
Neutralization	Intermediate storage Tank	Sludge Treatment
Equalization tank		Sludge Holding Tank
Primary Clarifier		Sludge Drying Bed

Assumptions:

- 1.The plant is designed to operate at +/- 10 % variation in raw wastewater parameter.
- 2.No other parameters other than mentioned above is present in the raw waste water which is beyond Pollution Control Norms and hazardous to microorganisms.
- 3.Treated water quality will be achieved if the inlet raw water quality is as per the raw water quality mentioned as well as no other pollutant than the mentioned, is present or exceeds the limits or which is hazardous in nature, which otherwise may affect the biological treatment process.



