

L. D. COLLEGE OF ENGINEERING, AHMEDABAD (GTU)

6th Semester Civil Engineering - PDDC 2013 Batch

Subject Code & Name : X60602 - Civil Engineering Project-I

Water Treatment Plant

Date : 18-02-2016

Basic design data for Batch - 1 & 2 :

- Design Period is 30 Years.
- Source of water supply: Perennial River.
- High flood level : 150 M
- Low flood level : 142 M
- Average Ground Water Level : 155 M
- A town with present population is 2,00,000 people.

Sr No	Year	Population
1	1980	45,000
2	1990	75,000
3	2000	1,05,000
4	2010	1,40,000

- **Required Raw Water quality**

1. Turbidity: 150 mg/ltr
2. Suspended solid: 100 mg/ltr
3. B.O.D : 16 mg/ltr
4. M.P.N : 200/100 ltr
5. P.H : 7.7
6. Fluoride : 0.5 mg/ltr
7. Chloride : 150 mg/ltr
8. Alkalinity : 200 mg/ltr

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