

Department : Civil

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Group No: 7

Guided By

**PROF. TANMAY
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SMT. S. R. PATEL ENGINEERING COLLEGE, UNJHA

Project Title

STORM WATER DRAINAGE SYSTEM & GROUND WATER RECHARGE SYSTEM FOR SMT. S. R. PATEL ENGINEERING COLLEGE

Abstract:

A proper & efficient drainage is the process of draining excess water from selected study area. This system also called as storm water sewer and drainage wells. In our study area the precipitation have only raining form. In major area about 10% of precipitation becomes runoff and 50% infiltrates into soil to form or replenish ground water and flows into stretches. The remaining 40% precipitation is used by plants and evaporation. Here we have selected Smt. S. r. patel engineering college as our study area, as its campus is covered with garden lawns and bitumen roads which becomes very impermeable and in heavy rains it covered by water in very little time. So our main goal is to design a efficient and rapid storm drainage system which should drain water rapidly with less concentration time and less spreading of water with less provision of slope. We have studied past 30 year rainfall data, here we will use rational method for estimation of storm water runoff. In final semester we have studied various literatures and other data required for design of storm water drainage system, we have collected reduce level of different location of our study area, in which we will design a drainage network. After designing a storm water drainage network, we have worked in design of ground water recharge well to use this rain water in recharge of ground water. Here we have also made provision for filters in the ground water recharge well.

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