Department : **Civil**

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Group No: **16**

Guided By

PROF. UTKARSH NIGAM

SMT. S. R. PATEL ENGINEERING COLLEGE, UNJHA

Project Title

AN EFFICIENT AND REDISGNING OF DRAINAGE SYSTEM OF PATAN CITY

Abstract:

Storm water drainage creates many problems and havoc in any town or city especially during the periods of Heavy Rainfall, Storm Water should be drained off rapidly and quickly so that normal daily functions and marketing should not be interrupted. In this order to solve the drainage problem of Patan City, Gujarat. The problem has been identified mainly in the low lying (or elevated) areas of the city. For solving this problem Rainfall Data has been collected from State Water Data Centre (SWDC) Gandhinagar and existing required maps were collected from Patan Municipality. Annual maximum and Daily (24 hr) maximum rainfall is used in accompany with flood frequency analysis to find out Rainfall intensity. Discharge has been found out by using Rational method which is best suitable for rural/urban area (CPHEEO Manual). The 2-year return period has been taken for designing the storm drainage design as suggested in Government reports and manual. The problem of storm water in Patan city becomes very serious in lower elevated zones. It creates havoc in the rainy season and market becomes close and becomes stagnant during the storm period. An effort has been made to quantify and manipulate the problem of storm water removal in Patan city Gujarat. A new storm drainage network design approach has been done for Patan city.

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