FINAL YEAR PROJECT

To Develop The Best Possible Solutions For Rain Water Management (RWM) System For Qaddafi Stadium Lahore.

Supervised by:

Dr. Shahid Iqbal

Submitted by:

Fawad Javed & Murad Rana

(M.B.A 2 Year Program)

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BAHRIA UNIVERSITY LAHORE CAMPUS

SUBMISSION FORM FOR PROJECT REPORT

FOR

(MBA – MASTERS IN BUSINESS ADMINSTRATION)

BAHRIA UNIVERSITY LAHORE

Candidate Names : Fawad Javed & Murad Khan Rana

We submit Fawad / Murad copies for the examination for the degree of MBA Project title.

"To Develop the Best Possible Solutions of Rain Water Management (RWM) System For Qaddafi Stadium Lahore"

Candidate Signatures: ______________ Date: 24-2-2018

Certificate of Supervisor

I Dr. Shahid Iqbal being the supervisor for the above students certify the project that project report is in a suitable structure for examination and these candidates has pursued their courses in accordance with the MBA as per the policies of the universities.

Statement by the Head of Department

I supported the submission of the project report of the above named students for examination under the university MBA thesis rule for MBA degree.

Signature: ______________ Date: 26/2/2018

ABSTRACT

During monsoon, surrounding roads of Qaddafi stadium have been identified as sore points, by WASA, due to excessive ponding of storm water. Considering this scenario, the project has been developed with objective to eliminate/reduce ponding. The project boundary includes all the Nishtar Park Supports Complex and some adjoining areas covering 137 Acres.

In first stage key factors responsible for ponding problem were identified In second stage Rainfall data for last 63 years (from 1953 to 2016) was obtained from Met Department. Topography and soil quality data was obtained from Institute of Environmental Engineering (IEER), UET, Lahore. The whole project area was divided in to 23 sub catchment areas.

In the third stage all the data was inserted in Storm Water Management Model (SWMM) software developed by United States Environmental Protection Agency (USEPA).

Rainwater harvesting (RWH) has been used throughout the world as a water conservation measure, particularly in regions where other water sources are scarce or difficult to access. In recent years, researchers and policy makers have shown renewed interest in water reuse strategies due to rising water demand and declining water resources.

In fourth stage all the options were analyzed keeping in mind the overall objective and technical constraints.

These options include

1. No project option
2. Lying of sewage and connecting it to WASA system.

3. Installation of Rain Water Harvesting system

4. Installation of Rain Water Harvesting system along with storage facility

All the above options were analyzed. Water Harvesting option was selected as best possible option.

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