



# **DESIGN OF WASTEWATER COLLECTION SYSTEM FOR DORA CITY**

**BY**

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Submitted to the College of Engineering  
in partial fulfillment of the requirements for the degree of  
Bachelor degree in Civil Engineering

**Palestine Polytechnic University  
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# **CERTIFICATION**

**Palestine Polytechnic University**

(PPU)

**Hebron- Palestine**

The Senior Project Entitled:

## **DESIGN OF WASTEWATER COLLECTION SYSTEM FOR DORA CITY**

Prepared By:

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**MOHAMMAD JEBREEN**

*In accordance with the recommendations of the project supervisor, and the acceptance of all examining committee members, this project has been submitted to the Department of Civil and Architectural Engineering in the College of Engineering and Technology in partial fulfillment of the requirements of the department for the degree of Bachelor of Civil Engineering.*

**Project Supervisor**

**Department Chairman**

## Dedication

*To Palestine...*

*To our parents...*

*To the soul of Martyrs...*

*To our teachers...*

*To our friends...*

*To whom we love...*

*To every one who gave us help...*

*To Eng.SAMAH AL-JABARI*

*Thank you deep from our hearts for all support that*

*You have given to us.*

***Work Team***

## **A KNOWLEDGEMENT**

We would like to thank and gratitude to Allah, who gives us, the most Merciful who granted us the ability and willing to start project.

We thank “Palestine Polytechnic University”,” Departement of civil and architectural engineering” and wish to it more progress and success ,We express our thanks to “Eng. Samah Al-Jabari”, who gave us knowledge, valuable help, encouragement, supervision and guidance in solving the problems that we faced from time to time during this project. We also thank Dora municipality for there precious help.

Finally our deep sense and sincere thanks to our parents, brothers and sisters for their patience, and for their endless support and encouragement also for every body who tried to help us during our work and gave us strength to complete this task.

*Work Team*

# **ABSTRACT**

## **DESIGN OF WASTEWATER COLLECTION SYSTEM FOR DORA CITY**

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The disposal of raw wastewater without treatment creates major potential health and environmental problems. In Dora city, the sewage facilities do not exist.

The People disposal sanitary waste in cesspits, latrines and open drains. The wastewater has been seeping into the ground through the overflows of the deteriorated cesspits and latrines causing serious environmental and health problems.

The People are using cesspits, latrines and septic tanks. These latrines and cesspits are deteriorating and they are in bad condition, adding to this the increasing in water consumption and consequently increasing in wastewater production, resulting in over flows from the cesspits and recharges of ground water in Dora city.

This study is showing the design wastewater collection system for Dora city, which cover all of the city with four main trunks and three sub-main ,which flowing by gravity without pumping.

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