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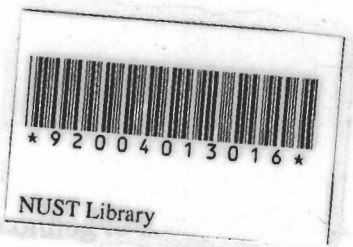
# National University of Science and Technology

Think in Other Terms



## CIVIL & WATER ENGINEERING DEPARTMENT

## FACULTY OF INDUSTRIAL TECHNOLOGY



### FINAL YEAR PROJECT

## DESIGN OF AN EMBANKMENT DAM AND IRRIGATION SCHEME UPGRADE FOR JUNAMINA IN KADOMWA

### VILLAGE IN BINGA

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BY

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## **ABSTRACT**

This project report contains information about my research, innovativeness, creativity and experience during my study on irrigation and dam design applying knowledge and skills acquired during the course of study. Some time was spent on gathering information, some on calculations and drawings. The work on calculations, graphs and drawings has been attached as appendices.

The proposed Junamina Irrigation Scheme is located in Binga District and is proposed to serve 18ha of land. Binga is known for experiencing water shortages due to low rainfall patterns there, hence the dam will be used to augment water supply for agricultural and also use if the situation reaches alarming levels. The proposed system is a canal fed surface irrigation system, with conveyance of water from the dam being done by gravity. Infield water application will be primarily done by furrow irrigation. The supply dam will be an embankment dam.