

# **PROJECT TITLE: CLEAN WATER DRIVE TO ENSURE A SUSTAINABLE WATER SOLUTION FOR JACOBABAD**

## **TITLE OF PROPOSAL:**

**CLEAN WATER DRIVE TO ENSURE A SUSTAINABLE SOLUTION FOR JACOBABAD**

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## **Executive Summary:**

### **1. Overview:**

This project will mainly address the needs that why pure water is important for every community/individual specifically Jacobabad. In addition to this it will highlight different challenges been faced by people of Jacobabad and how to ensure to end this problem through taking different unique steps.

### **2. Problem:**

Many rural communities in Jacobabad mainly rely on unground water resources like well's etc. That could be contaminated water due to the incoming waste from industries etc. In addition to this we will also dive into the importance of topic and if we don't understand the importance of the topic then there could be several health risks, economic risks arising due to this problem.

## **Proposed Solution:**

The solution to the problem is to build plants which will distill the water so that it could remove all impurities mixed in it. In addition to this store water in dams, storage facilities like the rain water as it's cheap.

## **Expected impact and benefits:**

Benefits includes:

1. Major health problems like typhoid, diarrhea will be reduced.
2. Less expenditure by families on treatment of diseases caused by impure water.
3. It will also help to conservation of water resources.
4. It will help to improve economy and education of students.

## **Summary of Budget:**

This could take 1 year (approximately 12 months) to improve sanitation of water.

## **3. Introduction/Background**

Jacobabad experiences extreme heat during the summer which causes droughts due to lack of water resources, that result in complex diseases also the water carried in Canals are polluted with waste and also not everyone has access to tankers .Also it is relevant to our Sdg 6 which addresses the main issue of water

### **Problem:**

As we discussed earlier it's very important issue specifically in terms of health whether it's children or elderly. Like common diseases include typhoid, bacteria etc. Also not only this families have to spend money just to get clean sanitized water from private suppliers like tankers etc. So Jacobabad water issue is serious and we should try to resolve it as earliest as possible to avoid these things to take place.

## **Significance:**

This issue is quite significant because it addresses different problems, impacts that could be caused by due to contaminated water in terms of health and economy. Also as an economy it is our fundamental right to get access good water. Different filtration etc. Also plants should be installed as if there is no seriousness in the issue then problems will get even worst for the residents living there.

## **4. Objectives:**

### **Primary:**

- Clear And Measurable Goals:

1. Increase access to water.
2. Reduces impacts of different diseases.
3. To improve water storage system and distribution of water as it is essential.

### **Secondary:**

1. Not only water use etc is important but the main thing is to create awareness among people on water safety standards etc.
2. Main thing is also to monitor the implementation and try to increase flow of it.
3. So that we can provide clean access of water to all people.

## **5. Methodology/Approach:**

### **Plan of Action:**

As we learned in community development framework rules so first we will access the situation by checking the resources etc needed to eradicate the issue that can be done through surveys, research etc. Then we will engage all the relevant stake holders of the society and ask them about their opinion then we can build a short term, long term plan by accessing the situation. Then we can build different filtration plants that could clean the contaminated water not only this is the

opportunity to upgrade older pipelines installed etc. Also continuously guide the community and also track the progress to make sure that nothing goes out of planned.

### **Strategies/techniques/or framework to be used:**

Involve community during the implementation stage that will help to ensure sustainability of the project. Try to you filtration plants that can be easily updated at low refueling cost and are cost effective. Also guide local leaders so that they can help you in your work.

### **Potential Risks and Mitigation Strategies:**

Despite our efforts still our project could face potential risks that include due to lack of funding a potential risk is there that our project could derail its path and could cause problems in completing it. Also due to technological barriers we could face potential issues which could stagnant the project upgradation. Also there might be a possibility that community stake holders etc might find out that this is not much important issue that could demotivate the project ideas by reducing community involvement.

## **6. Project Scope And Deliverables:**

### **Project Scope:**

Includes installing of water filtration plants, upgrading existence pipelines, try to promote awareness among people regarding this issue and insisting the need that all necessary components are used to deliver a best result.

### **Expected Outcomes and Deliverables:**

As many as 5000+ residents will be able to access safe water, also it includes training of community members so that they can easily handle the operation and maintenance of Ro plant. Also it could help to reduce most common diseases caused by contaminated water.

### **7. Timeline:**

This project could minimum take 12 months to get completed and be functional so that it could provide pure water to community. The installation and setup could take estimated 5-6 months plus community mobilization could take 4-5 months this will help us to make a well structured plant that can address contaminated water problems in around estimated 12 months.

### **8. Budget and Resource Allocation:**

Installation cost of 1 filter could take approximately 40,000 so our estimated cost is around 20 lack's with all installation, upgrading of older pipelines etc in it.

### **Justification of Expenditures:**

This budget is well balanced as it covers all related infrastructure development plus community engagement and having a skilled labor that could operate it efficiently making it an effective project.

### **9. Expected impacts and Benefits:**

The most common benefits of implementation this project are:

1. Reduction in water bone diseases.
2. It will also provide better economic benefits as people will spend more on there livelihood instead on diseases caused by contaminated water.

3. It will also reduce child mortality and provide better nuteritions.

### **Long term sustainability:**

Local residents will be engaged so that they can operate and maintain the plants in future. Also expanding this project in future we could include Government Ngo's or organizations that can implement this type of sustainable project to other areas.

### **Potential Beneficiaries:**

The potential benefits will be provided to those people that include women, children and health sector, also 50,000+ people in Jacobabad will be able to gain free access to water.

## **10. Evaluation and Success Metrics:**

The project success will be critically evaluated like by taking surveys or gathering communities in Jacobabad to get to know what were the impacts of this project. Plus we will track this project in hospitals like when this project will be initiated we would collect all nessacary data beforehand so that we can compare it with further statistics to determine is there any downward trend in the diseases caused by contaminated water or not. Also we will count the Ro plants maintenance and working in account so that we get to know whether the Ro plant is working write or wrong.

## **11. Conclusion:**

My whole presented project highlights the importance of this topic specifically in Jacobabad where people face tremendous challenges in their health sector, economic sector etc due to contaminated water we also discussed that how to resolve this issue so that in future this issue could be completely resolved we also discussed different challenges we could face along with the timeline of the project and the benefits and impacts of this project on communities of Jacobabad. We also discussed how to develop a cost effective budget through which we can address the needs of people.