PROJECT COMPLETION REPORT

WATER FILTRATION PLANT, LALA MUSA, DISTRICT GUJRAT

SUMMARY

PROJECT NAME:	WATER FILTRATION PLANT, Lala Musa
SPONSORED BY:	DR. AHSAN KARIM MIRZA
LOCATION:	RAILWAY STATION, Lala Musa
CONTACT PERSON:	• TARIQ MEHMOOD (0300 546 2629)

The Rehmat Welfare Foundation (RWF) has successfully completed the construction and installation of a state-of-the-art water filtration plant designed to provide free and clean drinking water to the public. The plant, which will serve approximately 10,000 individuals daily, is a testament to RWF's commitment to improving community health and access to safe drinking water.

PROJECT BACKGROUND

- **Objectives:**

1. **Enhance Public Health**: Provide safe drinking water and reduce waterborne diseases.
2. **Improve Passenger Experience**: Offer convenience, comfort, and satisfaction.
3. **Support Environmental Sustainability**: Reduce plastic waste and promote eco-friendly practices.
4. **Increase Cost Efficiency**: Lower costs associated with bottled water and waste management.
5. **Boost Operational Efficiency**: Alleviate congestion and enhance station functionality.
6. **Benefit the Community**: Provide clean water to local residents and support social welfare.
7. **Raise Awareness**: Educate about water conservation and environmental responsibility.
8. **Modernize Infrastructure**: Upgrade station amenities and showcase innovative solutions.

- **Sponsor:**

Rehmat Welfare Foundation, Jhelum

- **Donor:**

Dr. Ahsan Karim Mirza and Family

Need Assessment and Survey

Assessment Report:

Water Quality Survey:

- Conducted to identify contaminants and the need for a filtration solution.
- Survey results indicated high levels of impurities and unsafe water conditions in the targeted areas.

Community Needs Assessment:

- Surveyed local population to determine the daily water consumption needs.
- Identified the need for a sustainable solution to provide clean drinking water.

Findings:

- Contaminants Identified: High levels of bacterial contamination, sediments, and chemical impurities.
- Population Served: Approximately 10,000 individuals in the area were identified as in need of improved water quality.

Project Implementation

- **Construction:**

- Site Preparation: Cleared and prepared the site for installation.
- Plant Construction: Erected and completed construction of the filtration unit, including:
  - Intake and filtration systems
  - Storage tanks
  - Pumping stations
- Quality Checks: Ensured that all materials and construction practices adhered to safety and efficiency standards.

- **Installation:**

- Filtration System: Installed advanced filtration technologies, including:
  - Sand filters
  - Activated carbon filters
  - UV sterilization units
- Testing and Commissioning: Conducted rigorous testing to ensure the plant operates efficiently and produces water meeting safety standards.

Financial Overview

- **Total Cost:**

- Construction and Installation: Rs.14,40000 (All costs covered by Rehmat Welfare Foundation)

- **Breakdown:**

- Land: Donated by the local government
- Water Filtration Plant Equipment: Rs. 320,000
- Labor Costs: Rs. 230,000
- Construction Material: Rs. 890,000
- Operational Costs: Rs. 35000 per month

- **Funding Source:**

- Entirely funded by the Rehmat Welfare Foundation Jhelum, with no external financial support.

Impact and Benefits

Fixing a water filtration plant at a railway station in Lala Musa that provides clean drinking water to more than 10000 people daily can have several significant impacts and benefits:

• Public Health and Hygiene

1. **Improved Health:** Access to clean drinking water reduces the risk of waterborne diseases such as cholera, dysentery, and hepatitis, which are common in areas with inadequate water treatment.
2. **Reduced Medical Costs:** With fewer water-related illnesses, both passengers and the local population may face fewer medical expenses, relieving some burden on the healthcare system.

• Convenience and Comfort

1. **Enhanced Passenger Experience:** Travelers will benefit from having access to safe drinking water, which can improve their overall experience and comfort at the station.
2. **Increased Satisfaction:** The availability of clean water can lead to increased satisfaction among passengers, potentially encouraging more travel and positive feedback.

• Environmental Impact

1. **Reduced Plastic Waste:** Providing clean water directly at the station can reduce the reliance on bottled water, thus decreasing plastic waste and promoting environmental sustainability.
2. **Promotion of Sustainable Practices:** The initiative can serve as a model for other public facilities, encouraging the adoption of similar sustainable practices.

Impact and Benefits (Cont…)

Economic Benefits

1. **Cost Savings:** By providing water directly, the station can save on the costs associated with bottled water procurement and disposal.
2. **Boost to Local Economy**: Improved facilities can attract more passengers and boost local commerce through increased foot traffic.

• Social Impact

1. **Community Well-being:** The plant not only serves travelers but can also provide clean water to the local community, enhancing their quality of life.
2. **Educational Opportunities:** The project can raise awareness about water conservation and the importance of clean water, fostering a culture of sustainability.

• Operational Efficiency

1. **Reduced Queue Times:** By providing a dedicated water source, the station can reduce the time passengers spend waiting in lines to purchase bottled water or use other facilities.
2. **Enhanced Infrastructure:** The presence of such a facility can be a part of broader infrastructure improvements, potentially leading to better services and amenities at the station.

In summary, the installation of a water filtration plant at the railway station in Lala Musa can lead to substantial health, environmental, economic, and social benefits, contributing to a more sustainable and passenger-friendly transit experience.

Photo Gallery


Inauguration


Construction


Construction


Construction


Completion

CONTACT US:

www.rrehmatmedicalaid.com

rehmatfoundation@live.com

+92544649950

Rehmat Welfare Foundation, Langarpur Road Thathi Gujran, Jhelum

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