

## WATER CARRIER

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### Abstract

The main aim of our project is to develop a mechanism for easy transportation of more water at a time from water pond, rivers, etc....., to their respective places. Water place a vital role in our daily life. Water is the major requirement in our day to day life, without water we can't do anything. Locally water will be carrying by women's from miles of distances to their homes. Women's are used to carry the water on their head, while carrying the water on their heads, it causes the major effect on their spinal cord. To overcome this problem for women's we re-implemented this project for easy to carry of water. If they are tired ,While carrying of water they can take the rest under the metal sheet which is placed on the top of the carrier. It is also used to protect the carrier from the sun ray's. The main aim to develop this is, to help the women's who are carrying the water on their heads and to protect them from the injuries and causes from carrying of water on their heads.

### 1. INTRODUCTION

Nowadays, mechanical artifacts are commonly found in our daily life. It is not difficult to observe that mechanical designs play an important role in assisting human tasks. Water are one of the most commonly faced mobility challenges for daily life applications. Whenever it comes to carrying of water from long distance their some limitations. So, our group has been involved in a project to design and develop a mechanical WATER CARRIER which can transport water at a time more

water. After studying various options it was decided to build a trolley that could be carry load of water and easy to transport whenever it is needed. Thus we have decided to make a water carrier trolley which is affordable to everyone with low cost. This will easy to carry of water.it will be reduce the human effect.

### 2. RELATED WORK

**Spain's National Statistics Institute** reported that average household water consumption in Spain was 137 litres per person per day in 2012. That number

far exceeds the minimum required per person, according to the World Health Organisation. Intermediate access is where people have access to 50 litres per day at a distance of less than 100 metres or 5 minutes, covering laundry and bathing as well as basic access uses. In this case, the impact on health is low. Optimal access **allows for the consumption of 100 litres per person per day on average**, supplied continuously through multiple taps and which meets all consumption and hygiene needs. On behalf of community visit, we have visited a village near to our college. There we have identified many problems. So we are decided to solve one of their all problems. SO we decided to solve the big problem which all the humans are facing water problem. Mainly while carrying of water for women's they facing the some problems like more pain on their spinalcord. So we decided to build a water carrier for they.

### 3. IMPLEMENTATION

A family in India needs fresh water. But this family can't just turn on a tap. Instead, the women in the household must walk to fetch it, sometimes travelling miles carrying plastic or earthenware pots, possibly with a child or two in tow, to the nearest safe source – regularly repeating

the journey up to three times a day. In the scorching summer months of April and May, when temperatures regularly exceed 40C, it is a particularly gruelling daily ritual – and when they get home they must complete their other household chores: cooking, washing, bringing up the children, even helping on the family farm. While carrying of water from the long distance all are facing the problems. Like damage of spinal card.

- The Project aims at making headway for developing a mechanism for transportation of water from long distance.
- Lifting water from long distance is a painless work. Especially where there are no carrying facilities for carrying of water. Water carrier is easy way to carry of water from long distance.
- Weight reduction and minimum effort require carrying the water.
- Keep safety, weight, and size in perspective.

TIG welding can be used for more metals than any other type of process. For this reason, a variety of industries rely on TIG welding. It is used in the construction of spacecraft and airplanes in the aerospace industry. Auto manufacturers use TIG

welding on fenders for its anti-corrosive properties. TIG welding is also widely employed in auto body repair shops. Artists appreciate the excellent quality of TIG welds using them in sculpture welding.

The mechanical design of the water carrier has been developed & modified considering available materials. Low-cost available materials help to reduce the cost of a product easily. Also, the availability of the technology of processing the materials is very important during the design of the product. Continuous material supply at the lowest cost has a great impact on product quality & cost. The design of the cart with main parts has been illustrated the load-carrying base is the main part of this cart. The object will be placed on it. There we can place the 6 pots with filling of at a time. In case of carrying heavy loads, if we tied their will a shelter we can rest under it. Which sheet is covered a human under it. The mainframe of the cart is designed to make with structural members which will be joined by welding after the cutting according to the required size and edge preparation. The members are available at a cheaper price and the use of structural members will reduce the manufacturing process step and

operator. Also, the structural members with a welded joint will reduce the utilization of extra machines as well as operator cost. All welding and cutting section are done by all group members and all this operation is done in our college in WSE-A water carrier is a type of trolley fitted with rotating wheels or tracks so that it can be pushed or pulled front and backward direction. Water carrier can be manual or battery-powered, and are commonly found in wheel, track, push arm or walker variants.

#### **4. EXPERIMENTAL RESULTS**

Water transportation locally is highly dependent on manual carrying. They are used in warehouses, malls, residential relocations etc. These trolleys have no limitation when it comes to carrying of water. It can move back and front motion . So here we propose a smartly designed water carrier with adding somethings to existing solutions. The carrier is smartly designed to carry water from long distance in any surface of road. The carrier has the sheet up on the handle which the tied person can rest under on it. The mechanism uses a carrying of water. They are three wheels which holds all weight of water on it. It can move freely by carrying all the load. It consists of three wheels at

two corners two wheel and one wheel is Infront middle one wheel. It moves front and back word direction. The load will effect on three wheels at a time. While transporting the water carrier it has totally controlled by handle. Easy way to transport the water. It is a light weight water carrier. One metal sheet is placed on the top of the carrier to protect from the sun ray's. All light weight materials are used while construction. Best welding technique are used.



## 5. CONCLUSION

- By the end of this project we are created a water carrier for carrying a large amount of water.
- A solution for many urban people who are carrying water from long distance.
- Easy way of carrying water.
- A water carrying machine in low budget.
- To women's who carrying the water on their heads and to protect them from the injuries and causes from carrying of water on their heads.

## 6. REFERENCE

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