

## **GARAGE ON WHEELS**

**Mr. Pravin Sake<sup>1</sup>, Mr. Chetan Sarpate<sup>2</sup>, Mr. Prakash Sathe<sup>3</sup>,  
Mr. Raheem Shaikh<sup>4</sup>, Prof. B.D.Mahadik<sup>5</sup>**

<sup>1,2,3,4,5</sup>*Mechanical engineering, G. S. Moze College of Engineering,  
Savitri Bai Phule Pune University, (India)*

### **ABSTRACT**

*Garage On Wheels is arising out of the concept of, if any vehicle have any problem or get damaged and there is no garage near by then in that such situation many problems arises out. To overcome from such situations Garage On Wheels will prove greatly useful. Sometimes mechanic who is coming to repair vehicle may forget some equipment at garage, if equipment is to large he can't carry it so far. In such situation mechanic too faces many problems for carrying equipment, to avoid this types of problem Garage On Wheels is useful and able to solving this problems.*

*When a vehicle have any problem but there is no garage nearby them , then many problem arises over there. To overcome from such problems our project will prove useful. We have to face many problems while driving. But sometimes mechanic who is coming to repair our vehicle may forget some equipment at garage, if equipment is too large he can't carry it so far. In such situation mechanic too faces many problems for carrying equipment's and situation becomes difficult. We did whole study of the situation that how to solve the problem. Our team decide to beat that problem and we got an idea of "GARAGE ON WHEELS" project. This project provide best service to customers. This project gives us time efficiency, enough space & convenient for today's generation.*

### **I. INTRODUCTION**

“MAN” a most powerful and intelligent species of World, as the world is being modernized by Man, in this modern world Man is working toward Science, Engineering and other fields to reduce the effort of people living in this World from millions of years. Man has discovered various elements with help of this Nature, such as Metal, Non-metal, Ceramics and other components or elements present in Nature. During discoveries of this elements, due to working towards it and finding it out in a wide span of time, Man started performing the work in an accurate behavior, manner or skills. Man started to do work in Accuracy and Precision

Garage On Wheels is arising out of the concept of, if any vehicle have any problem or get damaged and there is no garage near by then in that such situation many problems arise out. To overcome from such situations Garage On Wheels will prove greatly useful. Sometimes mechanic who is coming to repair vehicle may forget some equipment at garage, if equipment is to large he can't carry it so far. In such situation mechanic too faces



many problems for carrying equipment's , to avoid this types of problem Garage On Wheels is useful and able to solving this problems.

## **II.OBJECTIVES**

1. To provide faster service to the customer.
2. To provide almost every type of service on every type of problems of vehicle.
3. To work on a solution of every type of breakdown in vehicle.

## **III.SAFETY PRECAUTIONS**

The following points should be considered for the safe operation of machine and to avoid accidents:-

1. All the parts of the machine should be checked to be in perfect alignment.
2. All the nuts and bolts should be perfectly tightened.
3. The operating switch should be located at convenient distance from the operator so as to control the machine easily.
4. The inspection and maintenance of the machine should be done from time to time.

## **IV.METHODOLOGY**

In existing system when there is a vehicle breakdown then we need to tow the vehicle to garage even for the minor repairs. The main aim of our project was to reduce the human efforts and time required in repairing or servicing of the vehicle. We have designed a vehicle which is smaller in size and carry all the basic equipment to provide assistance to the customers at the shortest possible time. We have selected Bajaj chetak scooter to carry the equipment's like tool box, compressed air and jump start equipment. Whenever there is vehicle breakdown, flat tyre or minor service issue we can directly take our vehicle on the spot and provide the onsite assistance to them.

## **V.CONCLUSION**

The manufacturing of this mechanism or making of this project gave us a vast knowledge of the topic "GARAGE ON WHEELS". As we started working towards this project there were many more things we learnt about compressor making procedure, buying raw material from market, thinking creative and new idea and many more things. While manufacturing the project we face some difficulties. We also get opportunities to bring known theories into practical. Hope this project will be used in future in the society .



**REFERENCES**

- [1.] Compressor Research Group, Ray W. Herrick Laboratories , Purdue University.
- [2.] David Linden, Thomas B. Reddy, „Handbook of Batteries” , Third Edition, New York: McGraw-Hill, 2010, web, 14 Jan 2013, online.
1. Wikipedia contributors. "Electrochemistry." Wikipedia, The Free Encyclopedia. Wikipedia, The Free Encyclopedia, 23 Jul. 2014. Web. 25 Jun. 2014,online.
2. <http://www.itacanet.org/eng-home/>
- [3.] Doggett, Scott. "Renault Nissan Alliance Getting Recharging Stations in Place for an EV World." Green Car Advisor. July 10, 2008, Web,20 Jul 2014,online.
- [4.] Vijayasekaran Boovaragavan, Ravi N. Methakar, Venkatsailanathan Ramadesigan, and Venkat R. Subramanian, „Journal of the Electrochemical Society Vol.156, No.11, pp A854-A862, 2009.
1. Ali Emadi, Mehrdad Ehsani, John M. Miller, „Vehicular Electric Power System” , Special Indian Edition, New York: Marcel Dekker, Inc, 2010, Print.
2. Wikipedia contributors. "History of the electric vehicle." Wikipedia, The Free Encyclopedia. Wikipedia, The Free Encyclopedia, 3 Jul. 2014. Web. 28 Jul. 2014.
3. James Larmine, John Lowry, „Electric Vehicle Technology Explained” , First Edition, England: John Wiley & Sons, Ltd, 2003, Print
- [5.] [http://www.proquest.com/products\\_pq/descriptions/pqdt.shtml](http://www.proquest.com/products_pq/descriptions/pqdt.shtml).
- [6.] <https://www.lib.purdue.edu/access/ill/td/>