

Research Article

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Project for "Amphibious Mobile Snow Track Ambulance" for Healthcare System

Emin Taner ELMAS*

Assistant Professor Dr., Vocational School of Higher Education for Technical Sciences, Division of Motor Vehicles and Transportation Technologies, Department of Automotive Technology, Iğdır University, Turkey & Graduate School of Natural and Applied Sciences - Major Science Department of Bioengineering and Bio-Sciences, Iğdır University, Turkey

*Corresponding author: Emin Taner ELMAS, Assistant Professor Dr., Vocational School of Higher Education for Technical Sciences, Division of Motor Vehicles and Transportation Technologies, Department of Automotive Technology, Iğdır University, Turkey & Graduate School of Natural and Applied Sciences - Major Science Department of Bioengineering and Bio-Sciences, Iğdır University, Turkey.

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Abstract

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This article explains an "Amphibious Mobile Snow Track Ambulance Project" which is technically designed and managed by Asst. Prof. Dr. Emin Taner ELMAS, who is the Department Head of Division of Motor Vehicles and Transportation Technologies, Department of Automotive Technology, at Vocational School of Higher Education for Technical Sciences of Iğdır University, Turkey.

The mentioned "Amphibious Mobile Snow Track Ambulance" is mainly a "tracked vehicle" so it can easily be driven on the snow. In addition, this vehicle shall have a snow plough in order to sweep the snow on the roads. Another important feature of this vehicle is to have an amphibious structure, that means the ambulance can also swim in the water lakes.

Amphibious Mobile Snow Track Ambulance will also be a Project model which can be applied for the whole provinces and regions at which winter is heavy, like Eastern Anatolian Region of Turkey. By implementation of this Project provides a timely healthcare response for the patients and will save their lives.

The Project will be started by Iğdır University at Iğdır Province of Turkey and then aimed to be made widespread in use all over the Eastern Anatolian Region of Turkey [1-15].

Keywords: Automotive, Amphibious vehicle, Tracked vehicle, Snow ambulance, Ambulance, Snow track, Healthcare system

Introduction & Method, Findings and Discussion & Conclusionn

At the regions at which winter is heavy, like Eastern Anatolian Region of Turkey, the village roads are closed due to intensive snowfall, therefore it may not be possible to take the patients who live in those villages, to the hospitals or healthcare centers on time. The conventional rubber-tyred ambulances cannot get ahead on the village roads which are closed due to intensive snowfall. Therefore, it may not be possible to realize a timely healthcare response for the patients. Besides, some patients may lose their lives.

Thanks to the "PROJECT FOR AMPHIBIOUS MOBILE SNOW TRACK AMBULANCE FOR HEALTHCARE SYSTEM" it is aimed to

prevent such damaging situations. The Amphibious Mobile Snow Track Ambulances are build-up in order to stock them at village administration mukhtar and their main duty is to carry the patients to the hospitals or healthcare units under the heavy snowy winter conditions.

The mentioned ambulance is mainly a "tracked vehicle" so it can easily be driven on the snow. In adition, this vehicle shall have a snow plough in order to sweep the snow on the roads. Another important feature of this vehicle is to have an amphibious structure, that means the ambulance can also swim in the water lakes. Therefore, thanks to the project, an amphibious mobile snow track ambulance shall have been produced. The ambulance shall have a driver seat, a stretcher for the patient and a seat for the care person at the back side of the vehicle. The snow track ambulance will be equipped with the fundamental medical units and required healthcare devices. The Project will be started by Iğdır University at Iğdır Province of Turkey and then aimed to be made widespread in use all over the Eastern Anatolian Region of Turkey. Manufacturing of such an Amphibious Mobile Snow Track Ambulance will also be a Project model which can be applied for the whole provinces and regions at which winter is heavy. By implementation of this Project provides a timely healthcare response for the patients and will save their lives. This "Amphibious Mobile Snow Track Ambulance Project" is technically designed and managed by Asst. Prof. Dr. Emin Taner EL-MAS, who is the Department Head of Division of Motor Vehicles and Transportation Technologies, Department of Automotive Technology, at Vocational School of Higher Education for Technical Sciences of Iğdır University, Turkey.

Figure 1 and Figure 2 shows "Amphibious Mobile Snow Track Ambulance" for healthcare system. Figure 3 and Figure 4 shows various perspective views of Amphibious Mobile Snow Track Ambulance. Figure 5, Figure 6, Figure 7 and Figure 8 shows the general production dimensions for Amphibious Mobile Snow Track Ambulance [1-15].





Figure 2: Amphibious Mobile Snow Track Ambulance for healthcare system.



Figure 3: Various perspective views of Amphibious Mobile Snow Track Ambulance.



Figure 4: Various perspective views of Amphibious Mobile Snow Track Ambulance.





Figure 8: General production dimensions for Amphibious Mobile Snow Track Ambulance.

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