

## **ABSTRACT**

*Cleaning up garbage in Citarum River has been started since February 2018. This activity is also known as the “Citarum Harum Operation”. Citarum Harum Operation is done in some points of the Citarum River in West Java, not exception in Dayeuh Kolot district, South Bandung, West Java. Using a rigid boat, TNI troops from Kodam III Siliwangi were descended on the Old Citarum River Dayeuh Kolot in the Citarum Harum operation. The rigid boat itself has no seats for its users, so the TNI finds it easy to tire in an unhealthy sitting position. This is due to pressure on the musculoskeletal muscles while working, coupled with a relatively long time-consuming work. If the unhealthy sitting position occurs every day for a long time, then it may cause the onset of Musculoskeletal Disorder (MSD). On this occasion, the author attempted to design a rigid boat seat for the Citarum Harum operation to position the user in a healthy sitting posture with an anthropometric approach to prevent Musculoskeletal Disorder.*

**Key Words :** *Seat, Rigid Boat, Musculoskeletal Disorder, Anthrpometry, Sitting Posture.*