**ABSTRACT**

ON

**“ROLLING BRIDGE”**

**To**

EXECUTIVE COMMITTEE

CIVIL ENGINEERING STUDENT SOCIETY (CESS)

PULCHOWK CAMPUS, IOE

KATHMANDU

**By**

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Abstract:

Rolling Bridges, the first of their kind designed by Thomas Heatherwick, are marvels of engineering that serve a significant purpose. In our country where people have been struggling to cross rivers, and where bridges are constantly being wrecked due to calamities, many of those makeshift bridges (made of timber, or ropes) fail to provide safety and ease to the workers and passers-by during the renovation and reconstruction process. Rolling bridges, easy to install and remove, are the most apt solution in such scenario. Since they are highly portable, they can be carried in a medium sized vehicle to the destination, and when the renovation has been done, they can also be easily uninstalled without causing much mess. Furthermore, they can also be used as temporary flyovers in busy areas, while the construction process is being carried out alongside.

Objectives:

1. To provide safe and easy passage for crossing rivers, rivulets, to the passers-by
2. To aid in the reconstruction and renovation process
3. To provide a sustainable and cheap alternative to expensive bridges for the places where the gap in between is small, but is the only way.
4. To connect and disconnect two land pieces smoothly and with ease.
5. To provide easy passage to boats, if any.