

Inspection and Maintenance System for Bridges

Ginjoe MBIU is an innovative inspection and maintenance system for bridges made for the first time in India.

Gemini Power Hydraulics has launched Ginjoe mobile bridge inspection unit (MBIU). This product is very much indispensable for carrying out the bridge inspection and maintenance tasks. It is a versatile and efficient machine, built on the reliable Tata Prima 3123 or equivalent cabin chassis without there being any need for modifying the chassis. It is designed to provide a safe, quick and economic system of access to those structures where setting of scaffolding is not feasible or not economical. These units take a few minutes only to launch from the rest position to the work position without personnel on board. After initial launching manoeuvres are completed, operators can easily descend on the platform through the provided protected access.

Gemini Power Hydraulics Pvt Ltd is first in the country to supply such indig-

enously manufactured MBIUs matching in specifications at almost half the price of the imported units. As these units are built on Indian vehicle chassis, the after-sales service support and the spare parts are easily available.

This is a foray of Gemini into manufacturing activity which is quite in sync with the current national mission of 'Make in India'.

Ginjoe MBIUs are built under Technology Transfer Licence from CSIR-CRRI.



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These MBIUs are built under Technology Transfer Licence from CSIR-CRRI. The CRRI design is a basic electro-mechanical one, but Gemini has improved on the basic model by incorporating a hydraulic-mechanical design for better reliability and safety. This change as well as other features that have been incorporated makes the product several notches above the basic model of CRRI.

Gemini Engineers and Consultants after studying, analysing and taking user feedback, took it upon themselves as a challenge to deliver a product which is technologically superior, more reliable and safer. The first MBIU has been designed, fabricated and manufactured under the 'Make in India' campaign.

Considering the large need for such bridge inspection units, Gemini is confident that it will soon have a fleet of these units in every state of India. The company is also looking at the market for these units in the neighbouring countries.

Three models are available – Ginjoe-10, Ginjoe-12 and Ginjoe-15 having under-bridge horizontal platform span of 10, 12 and 15 m, respectively. Mast lowering depth for all models is 8 m. **EI**