



GINJOE MBIU – An Innovative Inspection and Maintenance System

Gemini Power Hydraulics Pvt. Ltd. has taken initiative under Make in India campaign for manufacturing 'Ginjoe Mobile Bridge Inspection Unit (MBIU)'. Mobile Bridge Inspection Unit is indispensable for carrying out the bridge inspection and maintenance tasks. It is a versatile and efficient machine, built on a reliable Indian cabin chassis without there being any need to modify the chassis. It is designed to provide a safe, quick and reliable system of access to those structures where setting up scaffolding is not viable. Ginjoe only takes a few minutes to launch from the rest position to the work position even without personnel on board. After initial launching maneuvers are completed, operators can easily descend on the platform through the provided protected access. There are thousands of old bridges in the country many of which are in dilapidated state needing immediate repairs. Therefore such a special purpose vehicle can only be termed as the need of the hour. Currently other machines are available from imported sources but same at a hefty price. However due to the high cost of imported spare parts and poor availability of service facilities most of these imported units are lying idle. Gemini Power Hydraulics Pvt. Ltd, well known for providing work saving solutions to the industry well ahead of time, first in the country to supply such indigenously manufactured MBIUs matching in specifications at price suitable for the Indian market. As these units are built on Indian vehicle chassis, the after sales service support and the spare parts are easily available. 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. Gemini Engineers and Consultants after studying, analyzing and taking user feedback, took it upon themselves as a challenge to deliver a product which is technologically superior, more reliable and safer.

Within a short span of period, Gemini has successfully supplied two units, both of which are operating daily with satisfactory results. This was only because the units were thoroughly tested in the factory as well as trial runs were conducted on bridges before they were dispatched to the customer. Three Models are available – Ginjoe – 10, Ginjoe – 12 and Ginjoe – 15 having under-bridge horizontal platform span of 10, 12 & 15 meters respectively. Mast Lowering Depth for all models is 8 meters. We can provide Mobile Bridge Inspection Unit to suit site conditions and as per customer requirement. We are constant researching and developing more models and configurations to provide to the Indian market. Our latest products include 'Bucket Type' configuration as well

as a new 'Towable' model. This model does not require a chassis to mount the equipment and can be towed by any existing vehicle. It is designed to be smaller, lighter weight and compact. Best suited for smaller bridges with lesser load bearing capacity.

Other Salient Features of the MBIU:

- Ergonomic design and Assist in quick repair
- Easy trouble shooting and maintenance
- Wind monitor and alarm
- Multiple Interlocks for added safety
- Dedicated Power Supply – DG Set
- Compressor Unit for operating maintenance tools and general cleaning.
- Sensors for monitoring stability
- Dedicated Remote PLC box & Remote Access Controls
- Security and CCTVs monitoring
- Automatic alarm and emergency cut-off system
- Remote diagnostic system for trouble shooting.



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