

GINJOE MBIU

- An Innovative Inspection and Maintenance System for Bridges made for the very 'First Time' in India

Gemini Power Hydraulics Pvt. Ltd. has launched their new product Ginjoe Mobile Bridge Inspection Unit (MBIU)

GINJOE MBIU is indispensable for carrying out bridge inspection and maintenance tasks. It is versatile and an efficient machine built on the reliable TATA PRIMA 3123 or equivalent cabin chassis, without the need being for modifying the chassis at all. It is designed to provide economic system of access to those structures, where setting of scaffolding is not feasible or not economical, in a safe and quick manner. The unit takes only a few minutes to launch, from the rest position to the work position, without a personnel on the board. After initial launching manoeuvres are completed, operators can easily descend on the platform through the provided protected access.

There are thousands of old bridge in the country, of which, many are in a dilapidated state needing immediate repairs. Hence, such a special purpose vehicle can only be termed as the need of the hour. Such machines are available from imported sources. A few such machines are already available in India, which have been imported at an exorbitant price. Due to the high cost of imported spare parts and poor availability of service facilities, most of these units are lying idle.

Gemini Power Hydraulics Pvt. Ltd. is well-known for providing work saving solutions to the industry. Well ahead of time, the company is the first in the country to supply such indigenously manufactured MBIUs, matching in specifications, at almost half the price of the imported units. Since the units are built on Indian vehicle chassis, the after-sales service support and the spare parts are easily available.

This is an initial foray of Gemini into manufacturing activity, which is in-sync with the current national mission of 'Make in India'.

These MBIUs are built under Technology Transfer Licence from CSIR-CRRI. The CRRI design is a basic electro-mechanical one. However, 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.

After studying, analysing and taking users' feedback, Gemini Engineers and Consultants took it 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.

Within a short span, Gemini has received orders for two units. The first unit has already been supplied, acquitting itself to the full satisfaction of the user. The unit was thoroughly tested, not only in the factory, but also at a nearby bridge, before it was delivered to the customer.

Considering the large need for such Bridge Inspection Units, Gemini is confident that they will soon have a fleet of these units in every State of India. They are also looking at overseas market for these units, in the neighbouring countries.

Currently, three models are available: Ginjoe-10, Ginjoe-12 and Ginjoe-15, having under-bridge horizontal platform span of 10, 12 and 15 meters respectively.

Mast Lowering Depth for all models is 8 meters.

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 and Remote Access Controls
- Security and CCTVs monitoring
- Automatic alarm and emergency cut-off system
- Remote diagnostic system for trouble shooting. ♦

For further details:

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