Bridge Inspection Vehicle (BIV)

- Bridges (especially Major Bridges) built with considerable investment is required to be frequently inspected and maintained to prevent deterioration and possible disasters.
- The BIV has the facility to reach the under parts and sides of the bridges, where deterioration remains unnoticed.
- This equipment facilitates more accurate assessment for the Physical and functional condition of Bridge.





Bridge Inspection Vehicle (BIV)

- Inspections are performed in addition to routine inspections on bridges that require a close in depth inspection of critical areas that cannot be reached or safely reached on foot or ladder.
- The Vehicle can be used to assess the condition of the structure in detail and conduct the ND testing of Bridges at critical parts (such as the Soffit of the super structure, Bearing Locations etc.)
- The Inspection can be carried out without affecting the traffic movement over the bridge or with very minimal effect to the traffic.





Bridge Inspection Vehicle (BIV)

Truck Specifications

- ☐ The vehicle complies to the specifications of ANSI/SIA A92.8— 2012 and other equivalent international standards "Vehicle-Mounted Bridge Inspection and Maintenance Devices"
- Maximum vehicle travelling dimensions are as follows; width 2.50m; height 4.00m; length 11.06m.
- Volvo Vehicle FM 330 6x2 Euro 4 Suitable for Indian market, with local support/Service centres
- Vehicle is fitted with necessary safety and warning lights and signs.
- ☐ The vehicle confirms to the Indian vehicle licensing authority requirements.



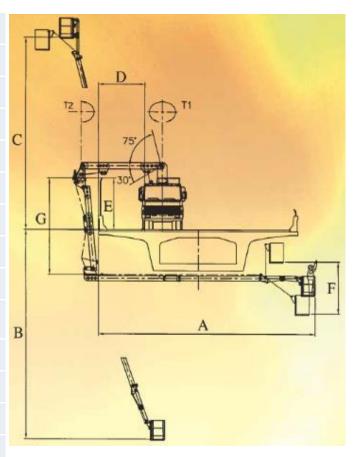


Bridge Inspection Vehicle (BIV)

Main Characteristic of BIV equipment

- ☐ Truck-mounted unit, self propelled by hydraulic power supply
- □ Primary power supply source from chassis engine, PTO and pumps
- Emergency power supply source from auxiliary electro pumps
- Automatic levelling system of platform
- Outreach interlocking limiting device
- Intercom system between vehicle and platform

Dimensions	AB 12/S
А	12.00 m
В	16.50 m
С	13.20 m
D	3.00 m
Е	3.50 m
G	6.50 m
T1	140 deg
T2	180 deg
Payload of Platform :	280 kg
Overall Length:	11.06 m
Overall Width:	2.50 m
Overall Height :	4.00 m
Total Weight :	22,000 Kg



Bridge Inspection Vehicle (BIV)

Equipment Specifications

- Operating Range :Up to 12.0 meter Maximum with boom 2 in vertical position
- ☐ Minimum 3 booms to give boom rotation of minimum area of 225 sqm
- □ Controls: Electric Over Hydraulic with Manual Hydraulic at with remote control facility: Two sets of controls are provided as follows
 - Hydraulic base controls for the emergency retrieval of the booms on chassis body in case of failure of platform controls
 - Platform electro-hydraulic controls for normal operation of equipment.
- ☐ Intercom: Four Way Intercom system
- ☐ Minimum Lowering Depth 16.50m.
- ☐ Minimum Working Height 15.20m
- ☐ Minimum over-bridging of sidewalk / footway minimum 3.0m

Platform or Bucket Specifications

- ☐ Minimum working space 1.50 sqm (1.50 x 1.00 x 1.10 LxWxH)
- □ 280 Kg minimum operational capacity (for 3 Persons with tools)