Multi-Mission General Aviation Aircraft : C-NM5

Joint Development by CSIR-National Aerospace Laboratories and Mahindra Aerospace Pvt. Ltd.

First Flight on 1 September 2011 in Australia
Prototype Manufactured by Mahindra GippsAero.

Features
Multi-Mission
Air Taxi, Training, Tourism, Cargo, Executive Transport

Certification basis
FAR Part 23, Normal Category, Day / Night VFR / IFR

Equipping options
Standard Conventional instruments, Stand alone avionics, Limited cabin environment control, Basic audio for pilot and passengers

Deluxe Glass cockpit with Electronic Flight Instruments System (EFIS), Autopilot integrated with GPS-enabled Nav/Com, Air-conditioning, Improved sound-proofing, Improved cabin audio system

Dimensions
Overall length 8.8 m (28 ft 9 in)
Overall height 3.0 m (9 ft 10 in)
Wing span 10.9 m (35 ft 8 in)
Wing Area 16.0 m² (172 ft²)

Weights
Max take-off weight 1525 kg (3362 lb)
Empty weight 945 kg (2083 lb)
Useful load 580 kg (1280 lb)

Airframe
All metal construction with composite cowling and fairings

Power plant
Lycoming IO-540 engine, 300 bhp @ 2700 rpm, 3-bladed constant-speed propeller

Avionics system
AMS, NAV / COM / GPS, CDI, Transponder, and ELT

Electrical system
24 V DC electrical system
- 28 V, 70 A external generator
- 24 V, 19 Ah maintenance free battery

Performance (ISA)
Take off distance 500 m (1640 ft)
Landing distance 450 m (1476 ft)
Max Level speed 296 km/hr (160 KIAS)
Max Rate of climb 335 m/min (1100 fpm)
Flaps-up stall speed 120 km/hr (65 KIAS)
Flaps-down stall speed 102 km/hr (55 KIAS)
Range (with 320 kg) 1300 km (700 nm)
Cruise altitude 3050 m (10000 ft)

Optional systems
Air-conditioning and 2-Axis Autopilot

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