



KRISHIV

India's First Indigenous Next-Generation Trainer Aircraft

A confident step into flight

Empowering pilots while strengthening India's aviation legacy

Our Story

At **Pioneer Clean Amps (PCA)**, we believe aviation is about more than flying—it is about shaping the future of India's air mobility. The company is led by **Mr. Kishor J. Patel, Managing Director**, and **Mr. Nikhil Dwivedi, CEO**, who together bring over 37 years of precision manufacturing experience, supported by a team of skilled engineers and technicians.

PCA specializes in **industrialising & scaling advanced technologies** while meeting stringent international standards.

PCA has entered into a **Transfer of Technology (ToT) partnership** with the Council of Scientific and Industrial Research - National Aerospace Laboratories (CSIR—NAL) for **India's first indigenously designed, developed, and DGCA Type-Certified two-seater trainer aircraft**, HANSA-3 (NG). Under this partnership, PCA will undertake manufacturing, after-sales services, and MRO services in India and abroad.

Hansa-3 NG rebranded by **PCA** as **KRISSHIV**, the aircraft represents the next phase of indigenous trainer aircraft manufacturing and operational readiness.



On 4th April 2025, PCA signed the ToT Agreement with CSIR-NAL in the august presence of **Hon'ble Minister for Science & Technology, Dr. Jitendra Singh**, and **Hon'ble Minister of Civil Aviation, Shri Rammohan Naidu**.





Manufacturing Facility and Roll-Out Plan

Kuppam airport, Andhra Pradesh | 55.4 Acres

Manufacturing Plant

It is situated adjacent to the Kuppam Airport, Andhra Pradesh, just 2 hours from Bengaluru International Airport. The 55-acre facility is designed for aviation-compliant manufacturing, with an initial capacity of 36 aircrafts per year, scalable to 100.

Production Targets

The first aircraft roll-out is scheduled for the last quarter of 2026. This will mark the beginning of operations, and production that will steadily upscale by 2028, ensuring consistent output to match India's growing flight training school & needs.

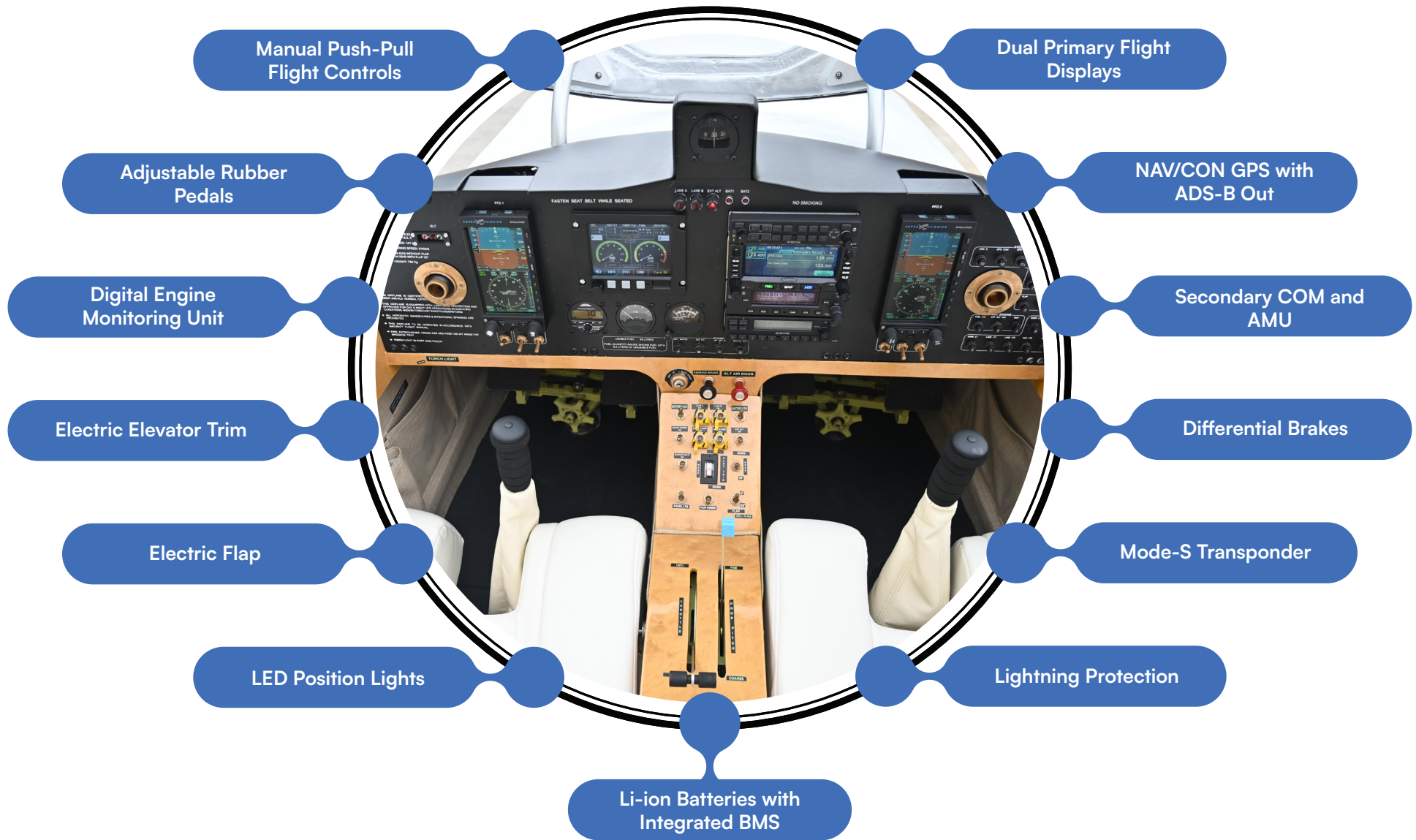
Delivery Targets

The first aircraft delivery is scheduled for Q1 2027. Deliveries will scale progressively thereafter, ensuring timely fulfilment and customer satisfaction.



30 August 2025 | MoU signed between PD, KADA, and PCA for the KRISHIV, manufacturing project at Kuppam, in the presence of Hon'ble Chief Minister Shri Chandrababu Naidu.

Key Features



1. Profitable Operations

Engineered for efficiency, the aircraft reduces operating costs and maximizes fleet utilization, making it a high-return investment for training schools and commercial operators.

2. Load Reduction & Vibration System (LRV)

Integrated technology enhances flight stability, passenger comfort, and structural durability, ensuring smooth handling across varied environments.

3. Modern Glass Cockpit

Dual VFR & IFR-compliant displays provide advanced situational awareness, streamlined navigation, and a professional training environment.

4. Lightning Protection

Conductive coatings & embedded systems safeguard the airframe against strikes, setting a new benchmark in safety for its class.

5. High Temperature Endurance

Designed to withstand elevated thermal conditions without compromising performance, ensuring reliability in demanding climates.

6. Certified Li-ion Battery Technology

India's first aircraft certified to use lithium-ion batteries, supported by an integrated Battery Management System (BMS) for efficient power distribution and redundancy.

7. Training Ergonomics

Dual control layout and panoramic canopy visibility ensure suitability for ab-initio training.

8. Optional Features

Steerable Oleo Nose landing gear (Under Certification)
IFR Operations - Certification underway



Major Specifications

POWERPLANT

Rotax 912 iSc3 Sport engine

Composite 2-bladed variable pitch MT Propeller

Fuel: AVGAS 100 LL/MOGAS (Under Certification)

Max cablo Eul: 05 ltc (75 11IS Gellonc)

WEIGHTS

Max Takeoff Weight		750 kg
Max Landing Weight		750 kg
Standard Empty Weight		550 kg
Useful Load		200 kg
Max Fuel Weight		69 kg
Full Fuel Payload		131 kg
Max Baggage		10 kg

AVIONICS

Dual EFD 1000 Pro Primary Flight Display (PFD)

Stock RS Flight System EMU 912 iS

AVIDYNE IFD 440 NAV/COM/GPS with ADS-B out enabled

GARMIN GTR 225A (Secondary COM)

AVIDYNE AXP340 Transponder

AVIDYNE AMX 240 Audio Management Unit

406 MHz ELT

Certified for DAY & NIGHT VFR





RUNWAY PERFORMANCE (@SL)

T/O Dist @ MTOW (to 50 ft)

- @ ISA : 490 m (1607 ft)
- @ ISA+ 15°C : 525 m (1722 ft)

LDG Dist @ MTOW (from 50 ft)

- Single Pilot : 450 m (1476 ft)
- Pilot + Occupant : 470 m (1541 ft)

SPEED

V _{so} 42 KCAS	V _h 110 KCAS
V _{S1} 47 KCAS	V _A 90 KCAS
V _{ne} 127 KCAS	V _{fe} 72 KCAS

CRUISE PERFORMANCE

Max Speed 100 KTAS @ Sea Level, ISA

Cruise Speed 85 KTAS @ 8000 ft, ISA+15°C

Max Endurance @ 8000 ft & ISA

- Single Pilot | 7 hrs + 30 min reserve @ 4300 rpm
- Pilot + Occupant | 5 hrs + 30 min reserve @ 4300 rpm

Max Range @ 8,000 ft & ISA

- Single Pilot | 620 nm + 30 min res @ 4300 rpm
- Pilot + Occupant | 440 nm + 30 min res @ 4300 rpm

CEILING

Certified Ceiling (Normal Ops) : 10,000 ft

PCA's Offering to FTOs/Customers:

Spare Provisioning

- Simplified logistics with standardized components

Support Infrastructure

- Providing initial training support to customers for their Chief Flight Instructors and Flight Instructors.
- Complete Maintenance and Training support for customers' Aircraft Maintenance Engineers (AMEs)

Warranty & MRO Coverage

- Powerplant and Avionics warranties as per OEM's terms & conditions
- Complete Airframe Warranty: Up to 12,000 flight hrs.
- Complete MRO service support to our customers



Flexible Financing for Aircraft Acquisition

To enable a rapid fleet expansion with optimized cash flow, reduced operational risk, and high aircraft availability, PCA offers the following flexible financial options for the acquisition of HANSA-3(NG), aka KRISHHIV two-seat trainer aircraft, designed specifically for Flight Training Organizations (FTOs)

1. CAPEX Model (Outright Sale)
2. Dry Lease Model (Operating Lease)
3. OPEX Model (Pay-Per-Flight-Hour)



KRISS-IV



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