# India

ADD (no change)

Consensus ratings*: Buy 9	Hold 1 Sell 1
Current price:	Rs3,942
Target price:	Rs5,000
Previous target:	Rs2,970
Up/downside:	26.8%
InCred Research / Consensus:	22.9%
Reuters:	HIAE.NS
Bloomberg:	HNAL IN
Market cap:	US\$15,934m
	Rs1,318,072m
Average daily turnover:	US\$60.7m
	Rs5024.0m
Current shares o/s:	334.4m
Free float: *Source: Bloomberg	24.9%

## Key changes in this note

- Introduce FY26F financials.
- > Raise FY24F-25F sales by 4-5%.
- Roll forward target price to Sep 2025F EPS.



Promoter	
HDFC Mutual Fund	
LIC	

3.8

2.9

# Hindustan Aeronautics Ltd

# FY23 annual report highlights

Aerospace & Defence | India | September 04, 2023

- HAL produced 22 aircraft/helicopters in FY23 and incurred a capex of ~Rs21bn for modernizing its facilities and expanding production capabilities.
- The annual report gives more insights into the higher capex and R&D expenses, which bode well for the growth of the manufacturing segment.
- We raise EPS estimates by 10% for FY25F as we feel the stock will sustain superior P/E multiple. Retain ADD rating with a higher target price of Rs5,000.

### Annual report highlights

Hindustan Aeronautics or HAL produced 22 aircraft and helicopters, and 51 engines in FY23. Exports accounted for just Rs2.9bn (~1% of FY23 sales) during the year. HAL indigenized ~1,300 items, enabling forex savings of ~Rs1.6bn. The company incurred a capex of Rs20.8bn for modernizing its facilities and expanding production capabilities. HAL incurred R&D expenses of Rs24.9bn in FY23, accounting for 9.5% of its sales. This R&D spending was focused on developing futuristic projects.

### Order pipeline provides long-term revenue and earnings visibility

HAL expects manufacturing order inflow worth over Rs480bn in FY24F, which includes 240 AL-31 FP engines worth Rs260bn, 12 Sukhoi Su-30MKI worth Rs120bn, 25 advanced light helicopter (ALH) units worth Rs35bn, 12 light utility helicopter (LUH) units worth Rs25bn, and 80 RD-33 engines worth Rs45bn. HAL expects another Rs350bn worth of orders for which the Acceptance of Necessity (AoN) has been approved and Rs650bn worth of orders for which the AoN is expected in the next two-to-five years. The order pipeline includes 145 LCH, 175 LUH, 69 utility helicopter maritime (UHM), 36 HTT-40 and 60 Dornier (Do-228) upgradation orders over the next three-to-five years.

### RoH segment to be key growth driver in FY24F

The Repair & Overhaul (RoH) segment has been a growth driver for the last few years as it enjoys a higher margin, accounting for 70% of FY23 revenue (63% of FY22 revenue). HAL expects RoH revenue of ~Rs200bn in FY24F. It has given guidance of ~5-6% growth in RoH and spare parts segments and increased the EBITDA margin guidance to 26-27%.

### Reiterate ADD rating with a higher target price of Rs5,000

HAL's order pipeline remains solid, but the order finalization timeline is critical to maintaining the growth momentum in FY24F and beyond. We raise our EPS estimates by 10% for FY25F and introduce FY26F financials. Based on Sep 2025F EPS, we raise our target price on HAL to Rs5,000 (from Rs2,970 earlier), implying a P/E of 25x vs. 22x earlier (considering the strong order pipeline, better working capital position and margin profile), and maintain our ADD rating on the stock. Delay in new orders, setback in aircraft delivery timeline and lower margins are key downside risks.

Financial Summary	Mar-22A	Mar-23A	Mar-24F	Mar-25F	Mar-26F
Revenue (Rsm)	246,202	269,279	297,658	339,237	385,207
Operating EBITDA (Rsm)	54,128	66,630	72,866	86,696	102,116
Net Profit (Rsm)	36,310	42,682	50,782	60,612	71,524
Core EPS (Rs)	108.6	127.6	151.9	181.3	213.9
Core EPS Growth	12.4%	17.5%	19.0%	19.4%	18.0%
FD Core P/E (x)	36.30	30.88	25.96	21.75	18.43
DPS (Rs)	40.0	50.0	43.7	52.2	61.5
Dividend Yield	1.01%	1.27%	1.11%	1.32%	1.56%
EV/EBITDA (x)	21.70	16.73	14.94	12.29	9.90
P/FCFE (x)	(49.24)	42.07	43.53	32.30	17.39
Net Gearing	(74.5%)	(86.4%)	(84.6%)	(80.2%)	(84.0%)
P/BV (x)	6.84	5.61	4.86	4.19	3.61
ROE	21.0%	20.0%	20.1%	20.7%	21.0%
% Change In Core EPS Estimates					
InCred Research/Consensus EPS (x)					

Analyst(s)



**Dipen VAKIL** T (91) 22 4161 1551 E dipen.vakil@incredcapital.com

SOURCE: INCRED RESEARCH, COMPANY REPORTS

# FY23 annual report highlights

# Annual report highlights >

- **Production highlights:** HAL produced 22 new aircraft and helicopters in FY23, including the Light Combat Aircraft (LCA) Tejas, Dornier Do-228, Advanced Light Helicopter (ALH) Dhruv, Light Combat Helicopter (LCH), and Light Utility Helicopter (LUH). The company also produced 51 new engines and accessories at its various divisions.
- HAL overhauled 216 aircraft & helicopters and 536 engines in FY23. The Government of India has placed orders worth Rs597m for the indigenous development of 26 Line Replaceable Units (LRUs) under the Make-I category and Project Sanction Orders for an additional 36 LRUs under the Make-II category.

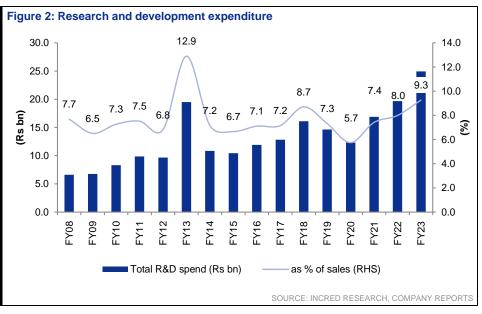
Figure 1: Production hi	ghlights							
	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23
New aircraft & helicopters	60	36	40	41	31	44	34	22
New engines	94	0	105	98	117	102	80	51
Overhaul								
Aircraft & helicopters	229	197	220	213	201	198	207	216
Engines	446	473	550	540	486	506	506	536
Aerospace structure	143	178	0	0	158	164	0	0
				SOURCE:	INCRED RE	SEARCH, C	COMPANY F	REPORTS

- Exports (Rs2.9bn): Delivered 1 Do-228 (passenger variant) and ALH MkIII helicopter to the Mauritius police force ahead of the contract delivery schedule.
- Indigenization: HAL indigenized 1,298 items, which is believed to have led to annual foreign exchange savings of Rs1.6bn in FY23. There has been a creation of indigenization fund - transfer of 3% PAT every year from FY23. Positive indigenization list - 430 imported items are included in the four PILs (PIL-1: 23, PIL-2: 22, PIL-3: 360, PIL-4: 25) issued by the Department of Defence Production (Defence Ministry).
- Other products highlights: (1) Unveiled HTT-40 trainer aircraft in Oct 2022.
   (2) Inducted Light Combat Helicopter (LCH) Prachand in the Indian Air Force or IAF (Oct 2022) and completed the production of all 15 LCH that were ordered, ahead of schedule. (3) Delivered the remaining ALH MKIII (maritime role) to the Indian Coast Guard (ICG) in Nov 2022 and received the Letter of Intent (LoI) for nine more ALH MKIII helicopters. (4) Conducted the first flight test of LCA Mk1A prototype in May 2022. (5) Produced four out of six Do-228 aircraft for IAF and designed and developed the Mission Management System (MMS) for 4 Do-228 aircraft for the Indian Coast Guard. (6) Delivered the first set of hardware for the Gaganyaan Mission and the Satellite Bus-structure to ISRO in Apr 2022.
- **Capex:** HAL incurred a capital expenditure (capex) of Rs20.8bn in FY23, an increase of Rs4.6bn from the previous year. The investments are mainly in the following: **(1)** Green Field Helicopter project at Tumakuru. **(2)** Augmentation of facilities for the Light Combat Aircraft (LCA). **(3)** Retro fitment of Sukhoi-30 aircraft. **(4)** Retro fitment of AL-31 FP engines. **(5)** Regular replacement and rationalization of existing facilities.

The capex witnessed a significant increase from the previous year and reflects HAL's commitment to modernizing its facilities and expanding its production capabilities.

• Research and development (R&D): HAL incurred R&D expenses of Rs24.9bn in FY23, accounting for 9.5% of its sales. This R&D spending is focused on developing futuristic projects such as the LCA Mk II, AMCA, IMRH, TEDBF, and CATS. These projects will ensure HAL's technological leadership in the coming years and provide good visibility for future platform orders.

Aerospace & Defence | India Hindustan Aeronautics Ltd | September 04, 2023



#### • Major announcements in FY23:

- Safran Helicopter Engines: HAL and Safran will form a joint venture (JV) to design, develop, produce, sell, and support helicopter engines for the Indian market and for global customers. The JV will focus on meeting the requirements of the Indian Multi-Role Helicopter (IMRH), a 13 t helicopter that is currently under development.
- Rolls-Royce: HAL and Rolls-Royce are exploring the opportunity for Rolls-Royce to become the country partner supplier for the MT7 Marine Gas Turbine Package in India. The MT7 is a gas turbine engine that can be used in a variety of applications, including naval ships and offshore platforms.
- Israel Aerospace Industries (IAI): HAL and IAI are working together to lease, operate, and maintain fixed-wing UAVs for the Indian defence forces. UAVs are unmanned aerial vehicles that can be used for a variety of missions, including surveillance, reconnaissance, and attack.
- GE Aerospace: In May 2023, GE and HAL signed a Memorandum of Understanding or MoU to produce F414 engines jointly in India to power the LCA Mk2. GE could transfer ~80% of the technology to India and this could lead to a significant increase in the indigenous content for LCA Mk2, reaching ~75%.

Program	Status
Basic Trainer Aircraft (HTT-40)	The HTT-40, an indigenously designed and developed aircraft by HAL, has seen remarkable progress. This endeavour was initiated with internal funding, resulting in the construction of three prototypes, including two fully operational flying prototypes and a Structural Test Specimen (STS). Notably, HAL secured a significant contract on 6 Mar 2023 for the supply of 70 HTT-40 aircraft.
Light Combat Aircraft Mk1A (LCA Mk1A)	Improved version of the LCA Tejas Mk1, which is currently in service with the IAF. The LCA Mk1A is still under development and has several new features, including an AESA radar, an electronic warfare suite, and an upgraded open architecture computer. Flight testing of the LCA Mk1A commenced in May 2022.
Light Utility Helicopter (LUH)	A 3-tonne single-engine helicopter having glass cockpit with multi-function displays. The LUH is intended to meet different role requirements including high altitude operation. Three flying prototypes have been built and were extensively flight tested. Initial Operational Clearance (IOC) for LUH IAF Version was accorded in Feb 2020 and for the Indian Army in Feb 2021. Integration of Automatic Flight Control System (AFCS) is progressing and will be completed by Dec 2023F. HAL has produced its first LUH Mk-I in Jul 2022 against the Letter of Intent (LoI) for 12 helicopters.
Indian Multi-Role Helicopter (IMRH)	Design and development of 10–15-tonne class IMRH for the defence forces. The naval variant is called Deck-Based Multi-Role Helicopter (DBMRH). IMRH and DBMRH would be designed to meet the requirement of military services and its future extension to the civil market. Currently, the preliminary design activities are under progress. HAL has completed Phase-1 of the wind tunnel testing of IMRH scaled model and the results are satisfactory. Phase-2 of wind tunnel testing is in progress.
25 kN Turbofan Engine (HTFE-25)	It is in the design and development stage. Can be used in basic/advanced military trainers and in small business jets. Large UAV application is under progress at HAL. The engine can be used in a 5-tonne weight class aircraft in single-engine configuration and in aircraft of up to nine- tonne weight class with twin-engine configuration. Two core engines have been produced so far and are undergoing development trials.
1200 kW Turboshaft Engine (HTSE-1200)	Used in 3-6-tonne category helicopters. One technology demonstrator of HTSE-1200 engine has been built and is currently under testing.
HAWK-i	Indigenously upgraded Hawk Mk 132 aircraft with enhanced operational and training capabilities. Hawk-i is now equipped with a new suite of avionics and electronic systems.
1	SOURCE: INCRED RESEARCH, COMPANY REPORTS

#### Figure 3: Ongoing projects and development

### Outlook

- In the near term, India's defence market will continue to be the main contributor for HAL due to projects like LCA Mk1A, LCH, LUH and HTT -40. Enhancement of HAL capability is being planned to cater to the above projects. New production lines are being installed for HTT-40 and LCA Mk1A production.
- In the medium term, HAL will diversify and increase its presence in UAV, civil MRO & allied operations, digital solutions and new space segments as strategic initiatives. The company is also expanding its geographical presence and collaborating with Indian industry/global OEMs to boost exports.
- Corporate action:
  - Dividend: HAL announced a total dividend of Rs55 per share (first interim - Rs20, second interim - Rs20 and final dividend - Rs15) in FY23, and the total cash outflow for payment of dividend for FY23 is Rs18.4bn.
  - Offer for sale or OFS (Mar 2023): The Government of India (Gol) had offered 3.5% equity shares out of its shareholding of 75.15% through OFS. Consequently. Gol shareholding stands at 71.65%.
  - Stock split (Jun 2023, record date 29 Sep 2023): The company's board approved stock split of 2:1 or one equity share of the face value of Rs10 split into two equity shares of the face value of Rs5 each.
- **Operational facility:** HAL has 20 production and 10 R&D centres co-located with its production division.

Facility	Description
Existing facility complex	
Bengaluru complex	Production and ROH of fixed-wing aircraft and engines (Indian and Western origin), spacecraft structures, castings, forgings & rolled rings.
MiG complex	Production and ROH of fixed-wing aircraft and engines (mainly Russian origin), civil MRO and UAV projects.
Helicopter complex	Production and ROH of helicopters (Indian and Western origin).
Accessories complex	Production and ROH of transport aircraft, accessories and avionics for fixed-wing and rotary-wing platforms (Indian, Russian and Western origin) and depot-level maintenance of UAVs.
Design complex	R&D of fixed-wing and rotary-wing aircraft, unmanned aerial vehicles (UAV), aeroengines, avionics and accessories.
New facilities	
Bengaluru	Integrated cryogenic engine manufacturing facility (ICMF) catering to the entire rocket engine manufacturing for ISRO and thereby boost self-reliance in the manufacturing of hi-thrust rocket engines.
Tumakuru (Karnataka)	New helicopter facility.
LCA production line - Nashik	In May 2023, HAL inaugurated its third production line for LCA Tejas at Nashik (Maharashtra), which is expected to increase its annual production capacity by 8 aircraft to 24 aircraft per annum.
	SOURCE: COMPANY REPORTS INCRED RESEARC

# Robust order book to aid growth >

HAL's order backlog stood at Rs818bn at the end of FY23. Towards the end of 4QFY23, HAL won an order for 70 HTT-40 and six Dornier (Do-228) valued at almost Rs90bn and another Rs8bn of PSLV order from New Space India. This led to a healthy order inflow of ~Rs260bn in FY23. Further, there were repair and overhaul (R&O) orders worth almost Rs180bn.

Aerospace & Defence | India Hindustan Aeronautics Ltd | September 04, 2023





# Order pipeline provides long-term revenue & earnings visibility **>**

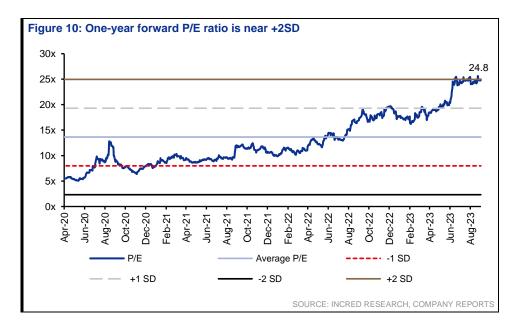
HAL expects manufacturing order inflow worth over Rs480bn in FY24F, which includes 240 AL-31 FP engines worth Rs260bn, 12 Sukhoi Su-30MKI worth Rs120bn, 25 advanced light helicopter (ALH) units worth Rs35bn, 12 light utility helicopter (LUH) units worth Rs25bn, and 80 RD-33 engines worth Rs45bn. HAL expects another Rs350bn worth of orders for which the Acceptance of Necessity (AoN) has been approved and Rs650bn worth of orders for which the AoN is expected in the next two-to-five years. The order pipeline includes 145 LCH, 175 LUH, 69 utility helicopter maritime (UHM), 36 HTT-40 and 60 Dornier (Do-228) upgradation orders over three-to-five years.

Order pipeline in the short term		
Product	Qty	Amount (Rs bn)
Advanced Light Helicopter (ALH)	25	35
RD-33 Engine	80	45
Light Utility Helicopter (LUH)	12	25
Sukhoi-30 MKI	12	120
AL-31 engine	240	260
Order pipeline in medium term (2-5 years)		
Light Combat Helicopter (LCH)	145	450
Light Utility Helicopter (LUH)	175	350
Utility Helicopter Marine (UHM)	60	200
HTT-40	36	35
Dornier 228 (Do-228) upgradation	60	NA
	SOURCE: INCRED RESEA	RCH, COMPANY REPORTS

Aerospace & Defence | India Hindustan Aeronautics Ltd | September 04, 2023

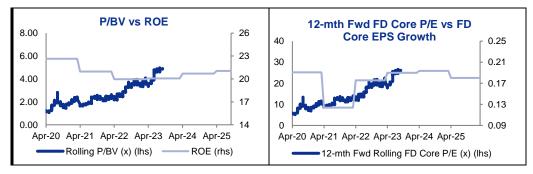
#### Figure 7: The falling share of manufacturing revenue in sales is Figure 8: Services' revenue in overall sales grew at a 19% expected to pick up from FY25F; services' revenue share in CAGR over FY11-22, although the growth may moderate over FY24F sales inches up 100% 250 80 90% 70 CAGR of 80% 200 19% over 60 70% FY11-22 60% 50 150 50% 40 40% 100 30 30% 20% 20 50 10% 10 0% FYZAF F-1254 \$1,0 \$120 4123 E115 ¢1° An' $<^{\prime}$ 0 0 $\leqslant_{\prime}$ FY22 FY24F FY25F FY18 FΥ19 FY20 FY23 FY26F FY13 FY11 FY12 FY21 FY17 Manufacturing (%) ■ RoH (%) RoH revenue (Rs bn) - RoH revenue contribution (%) \_ ■ Development & others (%) ■ Exports (%) SOURCE: INCRED RESEARCH, COMPANY REPORTS SOURCE: INCRED RESEARCH, COMPANY REPORTS

	Old estir	nates	Ne	w estimates		Change	(%)
(Rsm)	FY24F	FY25F	FY24F	FY25F	FY26F	FY24F	FY25F
Revenue	2,85,937	3,22,056	2,97,658	3,39,237	3,85,207	4.1%	5.3%
EBITDA	73,780	78,404	72,866	86,696	1,02,116	-1.2%	10.6%
Core PAT	52,085	55,178	50,782	60,612	71,524	-2.5%	9.8%



Aerospace & Defence | India Hindustan Aeronautics Ltd | September 04, 2023

## **BY THE NUMBERS**



## Profit & Loss

(Rs mn)	Mar-22A	Mar-23A	Mar-24F	Mar-25F	Mar-26F
Total Net Revenues	246,202	269,279	297,658	339,237	385,207
Gross Profit	146,160	168,099	178,595	203,542	231,124
Operating EBITDA	54,128	66,630	72,866	86,696	102,116
Depreciation And Amortisation	(11,099)	(17,839)	(15,386)	(16,786)	(18,386)
Operating EBIT	43,030	48,791	57,481	69,910	83,730
Financial Income/(Expense)	(581)	(579)	(579)	(579)	(579)
Pretax Income/(Loss) from Assoc.					
Non-Operating Income/(Expense)	7,236	11,023	8,345	8,545	8,745
Profit Before Tax (pre-El)	49,684	59,235	65,247	77,876	91,896
Exceptional Items					
Pre-tax Profit	49,684	59,235	65,247	77,876	91,896
Taxation	(13,374)	(16,552)	(14,465)	(17,264)	(20,373)
Exceptional Income - post-tax					
Profit After Tax	36,310	42,682	50,782	60,612	71,524
Minority Interests					
Preferred Dividends					
FX Gain/(Loss) - post tax					
Other Adjustments - post-tax					
Net Profit	36,310	42,682	50,782	60,612	71,524
Recurring Net Profit	36,310	42,682	50,782	60,612	71,524
Fully Diluted Recurring Net Profit	36,310	42,682	50,782	60,612	71,524

Cash Flow					
(Rs mn)	Mar-22A	Mar-23A	Mar-24F	Mar-25F	Mar-26F
EBITDA	54,128	66,630	72,866	86,696	102,116
Cash Flow from Invt. & Assoc.	(1,817)	(1,700)	(7,620)	(8,820)	(10,220)
Change In Working Capital	12,589	4,556	(21,465)	(19,675)	5,296
(Incr)/Decr in Total Provisions	56	149			
Other Non-Cash (Income)/Expense	12,863	23,813	15,386	16,786	18,386
Other Operating Cashflow	37,332	37,190			
Net Interest (Paid)/Received	3,662	14,405	7,766	7,966	8,166
Tax Paid	(10,532)	(27,557)	(14,465)	(17,264)	(20,373)
Cashflow From Operations	100,958	88,677	36,936	49,757	87,040
Capex	(7,989)	(7,823)	(15,000)	(17,500)	(20,000)
Disposals Of FAs/subsidiaries	32	51			
Acq. Of Subsidiaries/investments	(2,448)	(1,062)			
Other Investing Cashflow	(117,229)	(48,509)	8,345	8,545	8,745
Cash Flow From Investing	(127,634)	(57,343)	(6,655)	(8,955)	(11,255)
Debt Raised/(repaid)	(91)				
Proceeds From Issue Of Shares					
Shares Repurchased					
Dividends Paid	(13,376)	(16,719)	(14,611)	(17,439)	(20,578)
Preferred Dividends					
Other Financing Cashflow	(24)	(594)	(579)	(579)	(579)
Cash Flow From Financing	(13,491)	(17,313)	(15,190)	(18,018)	(21,157)
Total Cash Generated	(40,167)	14,020	15,092	22,784	54,627
Free Cashflow To Equity	(26,767)	31,333	30,281	40,802	75,785
Free Cashflow To Firm	(26,095)	31,912	30,861	41,381	76,364

SOURCE: INCRED RESEARCH, COMPANY REPORTS

Aerospace & Defence | India Hindustan Aeronautics Ltd | September 04, 2023

# BY THE NUMBERS...cont'd

(Rs mn)	Mar-22A	Mar-23A	Mar-24F	Mar-25F	Mar-26
Total Cash And Equivalents	143,436	203,062	229,410	252,194	306,82
Total Debtors	46,416	47,191	52,164	59,451	67,50
Inventories	143,636	121,607	134,423	153,200	173,96
Total Other Current Assets	138,826	187,092	206,809	235,698	267,63
Total Current Assets	472,313	558,950	622,807	700,543	815,92
Fixed Assets	92,300	87,112	86,727	87,441	89,05
Total Investments	12,941	13,854	13,854	13,854	13,85
Intangible Assets					
Total Other Non-Current Assets					
Total Non-current Assets	105,242	100,967	100,581	101,295	102,91
Short-term Debt					
Current Portion of Long-Term Debt					
Total Creditors	25,598	31,373	34,680	39,524	44,88
Other Current Liabilities	364,972	404,739	417,474	447,908	508,60
Total Current Liabilities	390,570	436,112	452,154	487,432	553,48
Total Long-term Debt					
Hybrid Debt - Debt Component					
Total Other Non-Current Liabilities					
Total Non-current Liabilities					
Total Provisions		400 110	456	407 400	
Total Liabilities	390,570	436,112	452,154	487,432	553,48
Shareholders Equity	192,640	235,062	271,234	314,407	365,35
Minority Interests	400.040			044407	
Total Equity	192,640	235,062	271,234	314,407	365,35
Revenue Growth Operating EBITDA Growth	8.2% 1.2%	9.4% 23.1%	10.5% 9.4%	14.0% 19.0%	13.6° 17.8°
	1.2%	23.1%	9.4%	19.0%	17.89
Operating EBITDA Margin	22.0%	24.7%	24.5%	25.6%	26.59
Net Cash Per Share (Rs)	428.95	607.26	686.06	754.20	917.5
BVPS (Rs) Gross Interest Cover	576.10 74.01	702.96 84.25	811.14 99.26	940.25	1,092.6
Effective Tax Rate	26.9%	27.9%	22.2%	22.2%	22.29
Net Dividend Payout Ratio	36.8%	39.2%	28.8%	28.8%	22.2
Accounts Receivables Days	76.21	63.44	60.92	60.05	60.1
Inventory Days	564.12	478.42	392.44	386.83	387.5
Accounts Payables Days	87.67	102.76	101.25	99.80	99.9
ROIC (%)	140.6%	708.2%	205.5%	144.6%	187.49
ROCE (%)	24.9%	22.8%	200.0 %	23.9%	24.69
Return On Average Assets	6.7%	7.0%	7.4%	8.0%	8.49
	01170	11070	,0	01070	0.11
Key Drivers					
	Mar-22A	Mar-23A	Mar-24F	Mar-25F	Mar-26
Manufacturing	73,750	47,400	55,630	95,360	138,16
RoH	155,359	188,170	201,103	199,640	200,10
Orderbook to sales (x)	4	3	5	5	
Order backlog	821,540	817,840	1,220,855	1,380,391	1,558,85

SOURCE: INCRED RESEARCH, COMPANY REPORTS

### DISCLAIMER

This report (including the views and opinions expressed therein, and the information comprised therein) has been prepared by Incred Research Services Private Ltd.(formerly known as Earnest Innovation Partners Private Limited) (hereinafter referred to as "IRSPL"). IRSPL is registered with SEBI as a Research Analyst vide Registration No. INH000007793. Pursuant to a trademark agreement, IRSPL has adopted "Incred Equities" as its trademark for use in this report.

The term "IRSPL" shall, unless the context otherwise requires, mean IRSPL and its affiliates, subsidiaries and related companies. This report is not directed or intended for distribution to or use by any person or entity resident in a state, country or any jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject IRSPL and its affiliates/group companies to registration or licensing requirements within such jurisdictions.

This report is being supplied to you strictly on the basis that it will remain confidential. No part of this report may be (i) copied, photocopied, duplicated, stored or reproduced in any form by any means; or (ii) redistributed or passed on, directly or indirectly, to any other person in whole or in part, for any purpose without the prior written consent of IRSPL.

The information contained in this report is prepared from data believed to be correct and reliable at the time of issue of this report.

IRSPL is not required to issue regular reports on the subject matter of this report at any frequency and it may cease to do so or change the periodicity of reports at any time. IRSPL is not under any obligation to update this report in the event of a material change to the information contained in this report. IRSPL has not any and will not accept any, obligation to (i) check or ensure that the contents of this report remain current, reliable or relevant; (ii) ensure that the content of this report constitutes all the information a prospective investor may require; (iii) ensure the adequacy, accuracy, completeness, reliability or fairness of any views, opinions and information, and accordingly, IRSPL and its affiliates/group companies (and their respective directors, associates, connected persons and/or employees) shall not be liable in any manner whatsoever for any consequences (including but not limited to any direct, indirect or consequential losses, loss of profits and damages) of any reliance thereon or usage thereof.

Unless otherwise specified, this report is based upon reasonable sources. Such sources will, unless otherwise specified, for market data, be market data and prices available from the main stock exchange or market where the relevant security is listed, or, where appropriate, any other market. Information on the accounts and business of company(ies) will generally be based on published statements of the company(ies), information disseminated by regulatory information services, other publicly available information and information resulting from our research. Whilst every effort is made to ensure that statements of facts made in this report are accurate, all estimates, projections, forecasts, expressions of opinion and other subjective judgments contained in this report are based on assumptions considered to be reasonable as of the date of the document in which they are contained and must not be construed as a representation that the matters referred to therein will occur. Past performance is not a reliable indicator of future performance. The value of investments may go down as well as up and those investing may, depending on the investments in question, lose more than the initial investment. No report shall constitute an offer or an invitation by or on behalf of IRSPL and its affiliates/group companies to any person to buy or sell any investments.

The opinions expressed are based on information which are believed to be accurate and complete and obtained through reliable public or other nonconfidential sources at the time made. (Information barriers and other arrangements may be established where necessary to prevent conflicts of interests arising. However, the analyst(s) may receive compensation that is based on his/their coverage of company(ies) in the performance of his/their duties or the performance of his/their recommendations. In reviewing this report, an investor should be aware that any or all of the foregoing, among other things, may give rise to real or potential conflicts of interest. Additional information is, subject to the duties of confidentiality, available on request. The report is not a "prospectus" as defined under Indian Law, including the Companies Act, 2013, and is not, and shall not be, approved by, or filed or registered with, any Indian regulator, including any Registrar of Companies in India, SEBI, any Indian stock exchange, or the Reserve Bank of India. No offer, or invitation to offer, or solicitation of subscription with respect to any such securities listed or proposed to be listed in India is being made, or intended to be made, to the public, or to any member or section of the public in India, through or pursuant to this report.

The research analysts, strategists or economists principally responsible for the preparation of this research report are segregated from the other activities of IRSPL. Information barriers and other arrangements have been established, as required, to prevent any conflicts of interests.

The research analysts, strategists or economists principally responsible for the preparation of this research report are segregated from the other activities of IRSPL. Information barriers and other arrangements have been established, as required, to prevent any conflicts of interests.

IRSPL may have issued other reports (based on technical analysis, event specific, short term views etc.) that are inconsistent with and reach different conclusion from the information presented in this report.

Holding of Analysts/Relatives of Analysts, IRSPL and Associates of IRSPL in the covered securities, as on the date of publishing of this report

#### Aerospace & Defence | India Hindustan Aeronautics Ltd | September 04, 2023

	Analyst/ Relative	Entity/ Associates
any financial interests in the company covered in this report (subject company) and nature of such financial interest	NO	NO
actual/beneficial ownership of 1% or more in securities of the subject company at the end of the month immediately preceding the date of publication of the research report or date of the public appearance;	NO	NO
any other material conflict of interest at the time of publication of the research report or at the time of public appearance	NO	NO
received any compensation from the subject company in the past twelve months for investment banking or merchant banking or brokerage services or investment advisory or depository or distribution from the subject company in the last twelve months for products/services other than investment banking or merchant banking or broker- age services or investment advisory or depository or distribution from the subject company in the last twelve months	NO	NO
managed or co-managed public offering of securities for the subject company in the last twelve months	NO	NO
received any compensation or other benefits from the subject company or third party in connection with the research report	NO	NO
served as an officer, director or employee of the subject company	NO	NO
been engaged in market making activity for the subject company	NO	NO

### Analyst declaration

- The analyst responsible for the production of this report hereby certifies that the views expressed herein accurately and exclusively reflect his or her personal views and opinions about any and all of the issuers or securities analysed in this report and were prepared independently and autonomously in an unbiased manner.
- No part of the compensation of the analyst(s) was, is, or will be directly or indirectly related to the inclusion of specific recommendations(s) or view(s) in this report or based any specific investment banking transaction.
- The analyst(s) has(have) not had any serious disciplinary action taken against him/her(them).
- The analyst, strategist, or economist does not have any material conflict of interest at the time of publication of this report.
- The analyst(s) has(have) received compensation based upon various factors, including quality, accuracy and value of research, overall firm performance, client feedback and competitive factors.

IRSPL and/or its affiliates and/or its Directors/employees may own or have positions in securities of the company(ies) covered in this report or any securities related thereto and may from time to time add to or dispose of, or may be materially interested in, any such securities.

IRSPL and/or its affiliates and/or its Directors/employees may do and seek to do business with the company(ies) covered in this research report and may from time to time (a) buy/sell the securities covered in this report, from time to time and/or (b) act as market maker or have assumed an underwriting commitment in securities of such company(ies), and/or (c) may sell them to or buy them from customers on a principal basis and/or (d) may also perform or seek to perform significant investment banking, advisory, underwriting or placement services for or relating to such company(ies) and/or (e) solicit such investment, advisory or other services from any entity mentioned in thisreport and/or (f) act as a lender/borrower to such company and may earn brokerage or other compensation. However, Analysts are forbidden to acquire, on their own account or hold securities (physical or uncertificated, including derivatives) of companies in respect of which they are compiling and producing financial recommendations or in the result of which they play a key part.