

ANNUAL REPORT

2011 - 2012



HAWK



HINDUSTAN AERONAUTICS LIMITED

15/1, Cubbon Road, P.B. No. 5150, Bangalore - 560 001, India
Website : www.hal-india.com



HINDUSTAN AERONAUTICS LIMITED

Performance...
when it matters most

Seven Decades of

LICENCED MANUFACTURE



Prentice



Vultee V-12D



HT-2



HAL G1 Glider



B-25 Mitchell



Gnat



DH-100 Vampire



Pushpak



HF-24 Glider



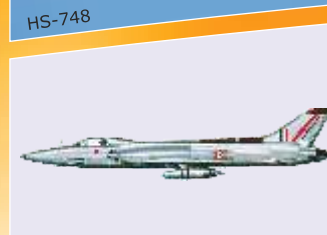
B-24 Liberator



MIG-21



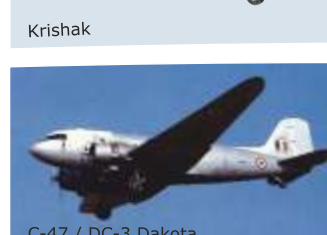
HS-748



HF-24 Marut



Krishak



C-47 / DC-3 Dakota



Chetak



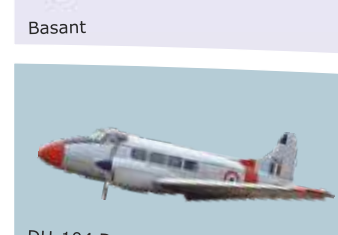
Cheetah



HJT-16 Kiran



Basant



DH-104 Devon

1950

1960

1970

1940



Hindustan Aeronautics Limited

"Navratna" Company
Approximately 33600 Employees
Over 2.5 Billion USD Turnover

HAL has produced over 3700 aircraft including 15 types of indigenous design & over 4300 engines.
HAL has also overhauled over 10000 aircraft & over 30000 engines.



Mirage - 2000 (Under upgradation)

service to the Nation



MiG-27M



Jaguar



Su-30MKI



Fifth Generation Fighter Aircraft (FGFA)



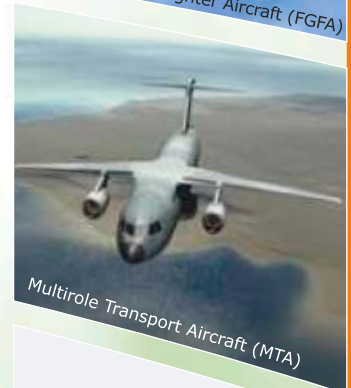
Do-228



Lancer



Hawk Mk132



Multirole Transport Aircraft (MTA)



Ajeet Trainer



HTT-34



Dhruv Advanced Light Helicopter (ALH)



Tejas - Light Combat Aircraft (LCA)



Light Combat Helicopter (LCH)



HPT-32



Lakshya Pilotless Target Aircraft (PTA)



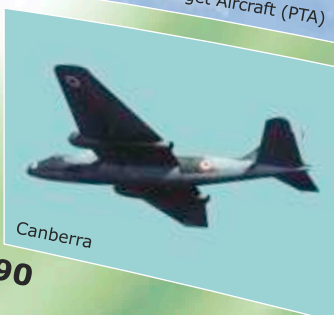
HJT-36 Intermediate Jet Trainer (IJT)



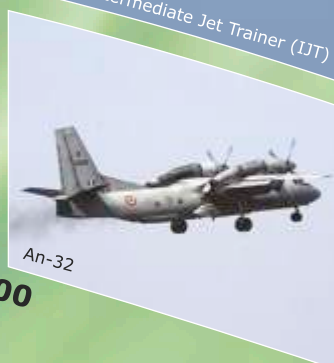
Light Utility Helicopter (LUH)



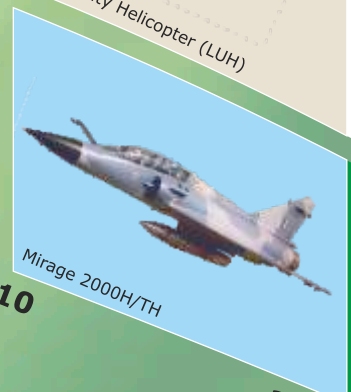
C-119 Packet with Orpheus Jet Pack



Canberra



An-32



Mirage 2000H/TH

1980

1990

2000

2010

2020

LICENCED MANUFACTURE

INDIGENOUS PRODUCTS

OVERHAUL

- ISO 9001, AS 9100, NADCAP Certifications & ISO 14000 Environmental Management System Certification Company.

Time lines shown for some of the Aircraft may spread to other decades.

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VISION

To become a significant global player in the aerospace industry

MISSION

To achieve self reliance in design, development, manufacture, upgrade and maintenance of aerospace equipment, diversifying into related areas and managing the business in a climate of growing professional competence to achieve world-class performance standards for global competitiveness and growth in exports.





FIFTH GENERATION FIGHTER AIRCRAFT

Under Co-development between HAL and Russian Partners

TECHNICAL/DESIGN FEATURES

Ultra Manoeuverability

Advanced aerodynamic design with Thrust Vectoring

Supersonic Cruise

Supersonic flight without afterburner

High Stealth features

Low Radar Cross Section and Infra Red signature

Datalink and Network

Information fusion and force multiplications



BOARD OF DIRECTORS



Shri R. K. Tyagi
Chairman

Shri R. K. Tyagi is a 1975 batch Engineering graduate in Electronics and Telecommunication from IIT Roorkee and possesses a Masters in Business Administration. Shri Tyagi took over as the Chairman of HAL with effect from 2nd March, 2012. Before joining HAL, he was Chairman cum Managing Director at Pawan Hans Helicopter Limited (PHHL) from May 2007 to February 2012.

Shri R. K. Tyagi started his career with ONGC as a Graduate Trainee in 1976 and through assignments rose to the position of General Manager in the year 2003. He served at ONGC upto May 2007 (31 years). Shri R. K. Tyagi has played an effective role in several development programmes related to Defence, Civil Aviation and Oil & Natural Gas Sectors.

Shri Manoj Saunik, an IAS Officer of the 1987 batch, graduated in Political Science (Honors) from St. Xavier's College, Calcutta and secured a Masters Degree in International Studies at JNU Delhi. During his illustrious career, he had served in many important positions including assignments to the UN during the years 2000 to 2005. As UN Municipal Administrator, he represented the Secretary General in a local government unit spread over 42 towns and villages in Kosovo, and as District Election Supervisor in Cambodia overseeing the performance of the elected local government in accordance with UN Security Council regulations.

On appointment as Joint Secretary (Aerospace), MoD, Shri Manoj Saunik was appointed on the Board of HAL with effect from 21st January, 2010.



Shri Manoj Saunik
Joint Secretary (Aerospace)
Ministry of Defence



Shri P. K. Kataria
Additional FA(K) & JS
Ministry of Defence
(Finance Wing)

Shri Prem Kumar Kataria, Additional Financial Adviser & Joint Secretary, Ministry of Defence (MoD) was appointed as a part-time Official Director of HAL with effect from 12th July, 2010.

Shri Kataria belongs to the 1985 batch of the Indian Audit & Accounts Service. He is associated with Defence PSUs, Border Road Organisation, DGQA, Army Construction Works etc. He was posted in Comptroller & Auditor General (C&AG), New Delhi as Principal Director (Audit) prior to his joining the Ministry of Defence. Between 2004 and 2006 he served as Accountant General, Manipur.

Shri Kataria served as Tax Advisor to the Government of Antigua, West Indies from 2000 to 2004 on deputation. He has carried out Management Reviews of several Organisations of the United Nations.

Shri V.K. Misra, who retired as Secretary (Defence Finance), MoD, was appointed as an Independent Director on the Board of HAL with effect from 11th November, 2009. He is also the Chairman of Audit Committee.

Shri Misra, a Post Graduate in Physics from Delhi University, joined the Indian Defence Accounts Service (IDAS) in July 1969 and worked in various capacities. He was an Officer on Special Duty with the first ever Committee on Defence Expenditure, set up by the Government to comprehensively address the gamut of issues with the ultimate aim of attaining optimal efficiency and economy in defence spending.

As Secretary (Defence Finance / Financial Advisor), MoD, he was at the helm of affairs for the entire range of financial management issues concerning MoD, the three Armed Services, Defence PSUs and several Defence organisations.



Shri V. K. Misra
Director



Dr. N. K. Naik
Director

Dr. Niranjana K. Naik, a Professor in the Aerospace Engineering Department at IIT Bombay, joined the HAL Board as an Independent Director with effect from 11th November, 2009. Dr. Naik possesses 35 years of experience as Faculty in the Aerospace Engineering Department. His areas of interest are Polymer Matrix Composites / Textile Composites – Analysis, Design & Technology and Aerospace Manufacturing Science and Technology.

Dr. Naik had made major contributions to teaching, research and development at IIT, Bombay. He has published a number of Research Papers. He is recipient of the National Merit Scholar Award, and has been Reviewer for many International Journals.

Shri Ajay Shankar, an IAS Officer of the 1973 batch, holds a Masters Degree in Political Science from Allahabad University and in Economics from Georgetown University, Washington D.C. He was appointed as Independent Director of HAL with effect from 9th March, 2011.

Shri Ajay Shankar had served as Secretary, Department of Industrial Policy & Promotion, wherein he took a number of policy decisions to improve the competitiveness of the Indian Industrial Sector. It was under his stewardship, that the plan for the Delhi-Mumbai industrial corridor project was developed and the Foreign Direct Investment Policy was further liberalised, thereby becoming more investor-friendly.

During his illustrious career with the Government of India, Shri Ajay Shankar played a critical role in putting together the stimulus packages during the global economic crisis. As Joint Secretary / Addl. Secretary in the Ministry of Power, he was instrumental in the preparation and enactment of the Electricity Act 2003, one of the major pieces of reform legislation at that time.



Shri Ajay Shankar
Director



Shri V. V. R. Sastry
Director

Shri V.V.R Sastry, holds a Bachelor's Degree in Engineering (E&C). He was appointed as Independent Director on the Board of HAL with effect from 9th March 2011.

Shri Sastry is former Chairman & Managing Director of Bharat Electronics Ltd. (BEL). During his tenure, Shri Sastry transformed BEL into a market / customer-oriented competitive Company known for supply of world-class products and turnkey solutions in Defence and other professional electronic segments. He has 40 years of varied experience in areas such as Marketing, Military Communications & Electronics Warfare Business, R & D Technology Management in Radar, Communication & Satellite Communication.

Shri Sastry was awarded ELCINA-DUN & BRADSTREET "Electronics Man of the Year" Award for 2007-08. Presently he is Executive Director with M/s. Centre for Development of Telematics (C-DOT) based at Delhi.

Prof. (Dr.) R. Venkata Rao M.A.(Litt.), LL.B; M.L. & Ph.D. was appointed as Independent Director on the Board of the Company with effect from 9th March 2011.

Prof. Rao is a specialist in Human Rights, International Humanitarian Law, Criminal Law, Jurisprudence and International Law. Presently he is Vice Chancellor of National Law School of India University, Bangalore. His illustrious career spans 31 years in field of education and training. He has been member of the Executive Council, Chanakya National Law University, Patna; Academic Council, NALSAR, Hyderabad; Governing Council, Indian Law Institute, New Delhi; Editorial Board, Indian Institute of Public Administration, New Delhi; Academic Committee, Indian Institute of Public Administration, New Delhi among others.

He has delivered numerous lectures and presented several papers at national and international levels. He has also published numerous articles on human rights, law and science and allied subjects in national and international journals and Newspapers.



Prof. (Dr.) R. Venkata Rao
Director

BOARD OF DIRECTORS



Shri Surendra Kumar
Director

Shri Surendra Kumar, B. Tech(Hons) from IIT, Kharagpur, M.E from IISc, Bangalore and Ph.D. from JNTU Hyderabad, joined the HAL Board as an Independent Director with effect from 9th March, 2011.

Presently Shri Surendra Kumar is an Emeritus Scientist, Defence Research & Development Organisation (DRDO), Ministry of Defence at DRDL, Hyderabad. He has held many important positions including Lab Director & Outstanding Scientist in Armament Research & Development Establishment, Associate Director in RCI, Hyderabad, Project Director of Ballistic Missile Defence, Program AD, Hyderabad, Deputy Project Director – Prithvi & Dhanush, DRDL & RCI, Hyderabad. He is a Visiting Faculty in IIT Bombay, Examiner Ph.D. in IIT Kharagpur, and Examiner ME/MTech in Osmania University.

Shri Surendra Kumar was awarded Lab Scientist of the Year (2002) and Scientist of the Year (2004) by the DRDO. He has over 35 years of experience in the field of Defence Systems consisting of Design, Development, Integration, Testing, Productionisation, Production, Programme and Project Planning of DRDO.

Shri P.V. Deshmukh, a B.Tech in Metallurgical Engineering from IIT, Kharagpur, joined HAL in December 1975 as Management Trainee and has worked in Tool Room, Foundry & Forge at HAL Koraput and large number of areas of operations in manufacturing & ROH Divisions of Nasik as well as in MiG Complex Office.

He has contributed to the success of several important projects including Upgrade of MiG-21 BIS aircraft. Manufacture of MiG -27 M aircraft from Raw-Material and the setting up of Manufacturing and Overhaul Facilities of Su-30 Mkl Aircraft at Nasik Division. He was incharge of Project Cell for the Mega Project of Su-30 Mkl aircraft manufacturing at HAL Aircraft Division.

He rose to the position of General Manager (Su-30 Mkl) in July 2006 and was appointed as Managing Director MiG Complex with effect from 1st October, 2008.

Shri P. V. Deshmukh officiated as the Chairman of the Company from 1st November, 2011 to 1st March, 2012.



Shri P. V. Deshmukh
Managing Director
(MiG Complex)



Shri S. K. Jha
Managing Director
(Accessories Complex)

Shri S.K. Jha, a gold medalist in Mechanical Engineering from National Institute of Technology, Jamshedpur and an MBA from Faculty of Management Studies, University of Delhi, joined HAL in March 1984 as Project Manager for Do-228 Project at Transport Aircraft Division, Kanpur.

Shri Jha contributed immensely to the growth of Kanpur and Lucknow Divisions of HAL. His expertise in the areas of project management, materials management, planning and production, resource planning & implementation, optimal utilisation and mobilisation of resources towards timely performance of various programmes has helped in implementation of several projects at Accessories Complex.

He has been instrumental in various Transfer of Technologies as well as in-house R&D programmes including Su-30 Mkl, leading to a successful production run of initial batches.

Shri Jha was made General Manager (Projects) at Accessories Complex in July 2006 and appointed as Managing Director (Accessories Complex) on 1st January, 2009.

Shri P. Soundara Rajan, an Electrical Engineering Graduate from Thiagarajar College of Engineering, Madurai and MBA from PSG College of Technology, Coimbatore, joined HAL in 1975 as Management Trainee. During his illustrious career in HAL, he has contributed in the areas of manufacture / repair, overhaul of aircraft, helicopter, piston engines and aero accessories, project management, quality assurance, integrated materials management & production management.

He established major overhaul line for Mirage 2000 and its systems, a first of its kind outside France, and was responsible for establishing a world-class, state-of-the-art Centre of Excellence for manufacture of aerospace composites.

Shri Soundara Rajan is a recipient of the National Award for indigenization by the Aeronautical Society of India.

He was General Manager (Composite Manufacturing Division) and later General Manager (Projects) at the Corporate Headquarters before his elevation as Director (Corporate Planning & Marketing) on 1st August, 2009 and subsequently as the Managing Director (Helicopter Complex) on 17th September, 2010.



Shri P. Soundara Rajan
Managing Director
(Helicopter Complex)