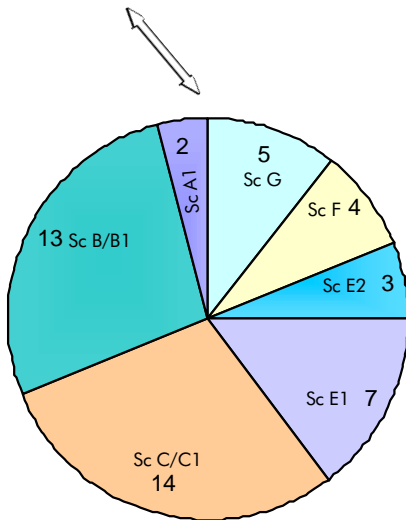
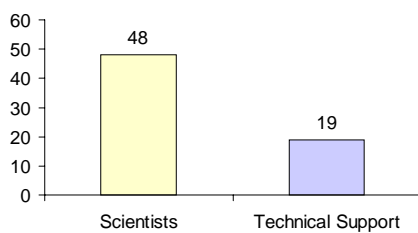


# CENTRE FOR CIVIL AIRCRAFT DESIGN AND DEVELOPMENT

## SUMMARY

**Dr K Y Narayan, Head**



The Centre for Civil Aircraft Design and Development (C-CADD) leads the design and development activities of civil aircraft in NAL. A significant milestone was achieved during the year when three HANSA-3 aircraft were handed over to the respective customers : VT-HNU and VT-HNV to the Secretary, Ministry of Civil Aviation (MCA) and VT-HNS to Indian Institute of Technology, Kanpur (IIT-K). The aircraft handed over to the Secretary, MCA, have been allotted to the Kerala Flight Academy and the Madhya Pradesh Flight Academy. The aircraft handed over to IIT-K will be used for a joint programme on flight research between IIT-K and NAL.

Significant progress in the fabrication, assembly and system testing of SARAS has been achieved during the year; while the fuselage for the structural testing is being instrumented, that for the first flying prototype is nearing completion. The assembly

of the stub wing has just commenced; the parts for the nacelle are almost complete.

The ground testing for the fuel system has been completed in HAL, ARDC. The hydraulic test rig is nearing completion in NAL and the tests are expected to commence shortly. The ground test of the engine and the propeller is planned to be carried out in a test stand available in the Propulsion Division; this stand has been modified to suit the SARAS power plant - P & W(C) PT6A-66; these tests are expected to commence in July 2002. The qualification testing of the various LRUs under development by the different divisions of HAL are progressing satisfactorily. The target date for the first flight is set for the end of December 2002. The details of the progress achieved in various areas are given in the following sections and also in the reports of the other participating divisions in NAL.