2. Type of Document: PROJECT DOCUMENT 3. Report No.: 4. Date: 5. Security Classification/ Declassification Schedule: PD PR 8501 June 1985 Contract Report - Restricted Title/Sub-title: MACH NUMBER DISTRIBUTION ON BLADE TO BLADE SURFACE OF A TURBINE STATOR PASSAGE 7. Author(s): M.V.A. Murthy and C. Srinivasa \_\_\_\_\_\_ 9. Project No. : 8. Division/Section: PR-0-139 Propulsion Division 10. Type of report/ 11. Pages :2 12. Copies/Approved by : Period covered: Tables:3
Interim Report Figures:9 Period covered: 10 Copies MVAM Project Leader 13. a) Sponsoring Agency(s): 13. b) Participating Agency(s): Gas Turbine Research N. A.L., Bangalore Establishment

14. Keywords: Turbine Cascade, Transonic Flow

1. Security Classification of this Page: -

Bangalore

15. Abstract:

in this report.

NATIONAL AERONAUTICAL LABORATORY BANGALORE, INDIA

Mach number distribution on the blade to blade surface

was computed at the hub, mean and tip sections of a stator blade using the computer program COMPBLADE. These results were used to plot iso-Mach contours on the blade to blade surface and surface velocity distribution as a function of fractional surface length. The results have been presented