# Title
ACOUSTIC DUCT DESIGN FOR ATTENUATION OF FLOW UNSTEADINESS IN NAL 1.2M TUNNEL

# Author(s)
K S Desikan

# Division
EXPERIMENTAL AERODYNAMICS

# External participation

# Sponsor
NAL Project No. EA-8-313

# Sponsor's Project No.

# Approval
Head, Experimental Aerodynamics Division

# Remarks

# Contents
20 pages
Text 11
Figs. 9

# Keywords
Flow Unsteadiness, Attenuation, Multi-pass Duct, Wind Tunnel

# Abstract
Unsteady pressure measurements in the NAL 1.2m trisonic wind tunnel indicated that levels of test section flow unsteadiness are relatively higher as compared to similar tunnels. Such high pressure fluctuations are not acceptable and therefore to be attenuated. Acoustic duct as an insert to the settling chamber has been designed and the details of construction and anticipated performance are presented.