



**National  
Aeronautical  
Laboratory**

**Documentation Sheet**

*Document Classification*  
RESTRICTED

**Title** : FORCE MEASUREMENTS ON 1/24TH SCALE  
MODEL OF ASLV WITH EIGHT SITVIC TANKS  
AND ALL PROTRUSIONS (ASLV-D<sub>3</sub>  
CONFIGURATION)

*Document No.*  
PD EA 9121

*Date of issue*: November 91

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*Contents* 171 Pages  
Text 8  
Tables 113  
Figs 50

**Division** : Experimental Aerodynamics Division

*No. of copies*: 20

**External participation** :

*NAL Project No.*  
NT-0-151

**Sponsor** : VSSC, Trivandrum.

*Sponsor's Project No.*  
35 15

**Approval** : Head, Experimental Aerodynamics Division

**Remarks** :

**Keywords** :

**Abstract** : Wind tunnel test results on 1/20th Scale complete model and core alone model of ASLV with eight SITVIC tanks and all protrusions (ASLV-D<sub>3</sub> configuration) are presented in this report. Aerodynamic data generation was the main aim of the test. Tests were conducted in 1.2m blowdown type trisonic tunnel at Mach numbers 0.6, 0.8, 1.0, 1.2, 1.6, 2.1 and 2.5 on complete model and on core alone at Mach numbers 2.1, 2.5, 3.0 and 4.0 in the incidence range of -6 to 6 deg and at different roll angles. Results are presented in both tabular and graphical forms in the report. Overall results are consistent with the expected aerodynamic behaviour.