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TURBINE STAGE TEST

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Abstract :

FULL SCALE TESTS ARE PLANNED TO BE CARRIED OUT ON THE H.P. TURBINE STAGE OF KAVERI ENGINE AT THE TURBINE TEST RIG OF GAS TURBINE RESEARCH ESTABLISHMENT (GTRE), BANGALORE. THE INSTRUMENTATION REQUIREMENTS FOR CARRYING OUT THESE TESTS WERE WORKED OUT IN DETAIL JOINTLY BY NAL AND GTRE. THE TESTS AT GTRE TURBINE TEST RIG INVOLVE THE OVERALL PERFORMANCE EVALUATION OF THE TURBINE STAGE AND THE DETAILED TRAVERSE MEASUREMENTS OF FLOW PARAMETERS WITHIN THE TURBINE STAGE. DESCRIPTION OF THE INSTRUMENTATION PROPOSED FOR THESE TESTS ARE PRESENTED IN THIS REPORT. THE REQUIREMENTS OF THE DATA ACQUISITION SYSTEM HAS ALSO BEEN INCLUDED.