

Critical Defects Analysis Reports

Basic Information

Name of the Ship/Establishment	Department	System	Sub-System	Unique Identification Code	OEM
INS Rino	Electrical	Radar System	Waveguide Assembly	44444	JKL

Date Defect Occurred	Date Defect Resolved	If defect still outstanding, reasons thereof
01/04/2024	05/4/2024	Applicable

Defect Analysis

Brief Description of the Defect	Defect Analysis
Inconsistent power levels detected	The magnetron was experiencing power fluctuations, which were fixed by installing a new magnetron.

Defect Resolution

Steps taken to resolve the defect	Spare parts used to resolve the defect	Important correspondence related to defect analysis and resolution (OPDEF, STOREDEM, etc.)
The radar system was powered off, and all high-voltage components were discharged. The damaged Waveguide Assembly was removed as per the system's manual. After the	Waveguide Assembly	DEFECTREP 06/24, PARTDEL 07/24

replacement part was fitted, the system's transmission path, signal integrity, and standing wave ratio (VSWR) were evaluated. The results were within the permissible limits, confirming the waveguide's correct installation and functionality.		
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Key Personnel involved in Defect Analysis and Resolution

Sl. No.	Name	Rank/Designation	Unit
01.	Asija Sahni	Senior Foreman	Repair Unit 7
02.	Vishwanath Shrirang	HSK 3	Repair Unit 7
03.	Ram Vilas	HSK 1	Repair Unit 7