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| Name of the Equipment / Facility | EMI-EMC & EMP Measurement & Compatibility |
| Purpose of Use | All electronics & electrical sub-systems developed for DRDO projects for aerospace, ground and naval applications are subjected to EMI-EMC & EMP testing / performance evaluation and ruggedized for intended electromagnetic environment. |
| Photograph |  <p data-bbox="808 1026 1133 1058">Fig.1 Shielded Enclosure</p>  <p data-bbox="678 1562 1266 1593">Fig.2 RF absorbers inside shielded enclosure</p> |



Fig.3 Automatic EMI Susceptibility Measurement System (AESMS)

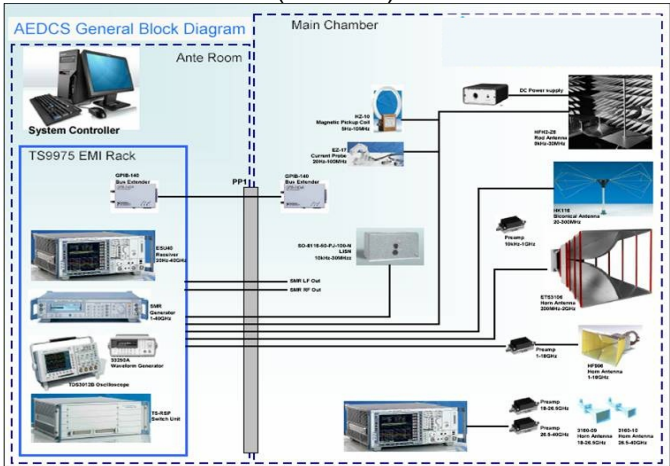
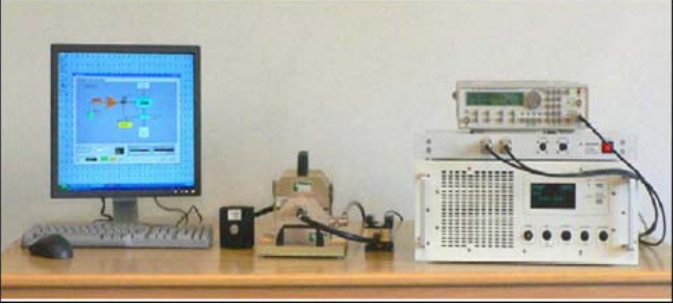


Fig.4 Automatic EMI Data Acquisition & Measurement System (AEDAMS)



Fig.5 Electromagnetic Pulse (EMP) Simulator

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| |  <p data-bbox="583 501 1365 562">Fig.6 Conducted Susceptibility (CW, Current) Measurement System</p> |
| Key Specifications | <p data-bbox="560 569 1383 970">Electronics systems & sub-systems of DRDO projects (e.g. missiles, tanks, aircrafts, UAV, torpedo etc.) are subjected to a particular intended (Functional & operational) electromagnetic environment. It is expected that all the systems should function without any performance degradation in its intended EM environment. At EMI-EMC & EMP Technology Centre, all electronics systems / sub-systems are tested for EMI-EMC & EMP performance evaluation as per latest prevailing EMI standards. After proper EMI failure analysis, electromagnetic compatibility (EMC) is ensured by using proper EMI mitigation techniques and optimized used of EMI suppression components.</p> |