

## SGOI - HYDERABAD

*Sreshren*  
Group of Institutions

GROUP OF EMI-EMC EXPRTS

**EMC SCIENCE**

Achieving EMC in right time is possible if Management and planning for execution of works are done as per schedule without deviating from :

- Official support without any pressure
- Personal life without any hurdles
- Balancing the Official & Personal works based on priority



FRIEND OF EMI, MAN OF EMC,  
FAMILY OF EMC, ENJOY THE LIFE

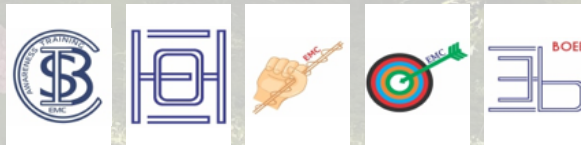
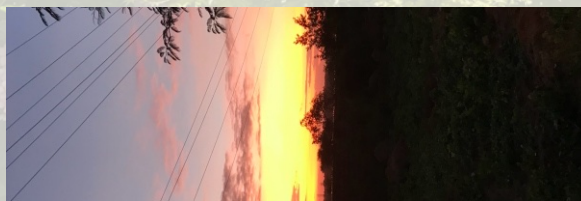
Plot No. 47, Sri Sai Nagar,  
Behind Midhani, Kanchanbagh P.O.,  
Hyderabad, Telangana-500058.

## SGOI - HYDERABAD



*Sreshren*

GROUP OF INSTITUTIONS  
GROUP OF EMI-EMC EXPERTS  
EMC = SCIENCE + TECHNOLOGY & FIXES



## SGOI - HYDERABAD

### PREFACE & ACTIVITIES :

- Build with hands on experience personnel
- More than 10 – 40 years of expertise
- Solved more than tens of thousands of EMI Problems
- Inter system & Intra system EMI solutions
- EMC needs : Right from design, Bread board model to Developed model
- EMC in systems of Airborne, Ship borne, Ground. **EMC Analysis at Site / at SGOI, Hyderabad** Carrying out or Monitoring Error free EMI Measurements.



## SGOI - HYDERABAD

Provides Filtering, Shielding, Bonding

Shielded Enclosures Design

Mobile Shielded Shelters Design

RF Mapping

Electrostatic Discharge protection

Establishment of EMI/EMC Laboratories / Facilities

EMI Hardening of Generator Sets

Radiation Hazards protection

Electromagnetic Pulse protection

Lightning protection

Focus on EMI/EMC Standards

Electrolytic Earthing design

Building up Scientific base awareness on EMI/EMC. **EMI/EMC purely follows natural phenomena. Avoid interruptions in natural flow of current. It will not bother anyone, all are equal to EMI.**

II. The SGOI Group of Institutions acquired and accumulated rich knowledge on EMI/EMC. Worked for many Organizations and established EMI/EMC Laboratories. Participated, Associated and Conducted various programmes through different Scientific platforms.

## SGOI - HYDERABAD

EMC requires concepts of all branches of Engineering and Science. It is the only subject related to all topics of Engineering and Science. It depends on concepts of Electronics, Electrical, Electromechanical, Instrumentation, Mechanical, Computer Science, Geology, Physics, Chemistry - Organic and Inorganic, Metallurgy, Material Science, Natural Phenomena, Management, e.t.c.,

### EMI EFFECTS :

Navigational Errors, Blasts, Deviations in the projectile, False signal conditioning, degradation in Operation/Operational parameters, False Triggering, False Firing, EEDs – Pyros – Squibbs : Change in AFC, NFC, Static Charge accumulation, No output, No Data, Components burnouts, Errors in measurement data, Resets, Communication Failure, Software corrupt, Computer hangs, Software hangs, No booting, Display jittering, Erratic data, Monitor off.

### EMC NEEDS :

Do not “Suffer” and “Cause” the problems to peripheral environment. **JIO AUR JEENE DO** (in Hindi language of India). Awareness on EMC is must for Design Engineers, Scientists, Production Agencies, Technicians, Scientific / Technical Assistants. EMC IS SCIENCE + TECHNOLOGY & FIXES.

## SGOI - HYDERABAD

In the present Electronics, Electrical, Electromechanical Systems/Sub-systems development running race, entire world felt and tending towards Electromagnetic Compatibility as essential and qualifying their systems against Electromagnetic Interference. Keeping in view, SGOI group has planned to work through our different departments to support Organisations or Industries at affordable cost.

**INSTITUTE OF SCIENTIFIC BASE & CONCEPTS (ISB & C)**

**ELECTROMAGNETIC COMPATIBILITY IN OUR HANDS (EOH)**

**CONSULTANCY FOR ELECTROMAGNETIC COMPATIBILITY GOAL (CFEG)**

**BASE OF ELECTROMAGNETIC COMPATIBILITY GOAL (BOEE)**

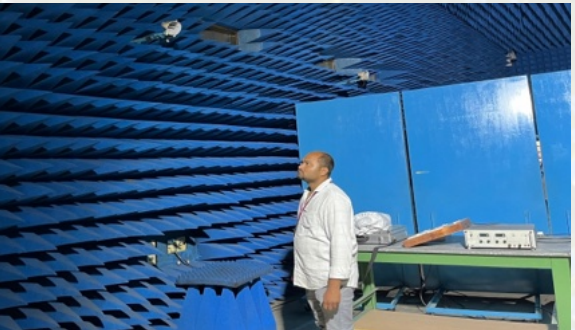


**INSTITUTE OF SCIENTIFIC BASE & CONCEPTS (ISB & C)**

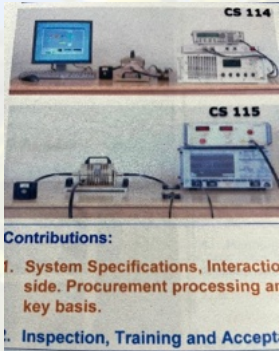
Carrying out/Monitoring of EMI/EMC Measurements as per required Standards (MIL-Std, IEC, Industrial, Commercial, e.t.c.) On Site EMI/EMC analysis at Test Facilities/at SGOI, Hyderabad. **EMI Prediction at user Site. RF Mapping at user site.** Shielding Effectiveness Measurement Case studies presentation at any site.



## SGOI - HYDERABAD



Inter System, Intra System Analysis At Any Site. **Building up Scientific Base Awareness on Emi / EMC with hands on experience through Teachings and Training at any Site.**



**POINT OF CONTACT :**

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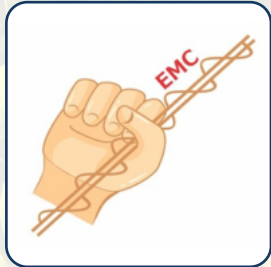
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## SGOI - HYDERABAD



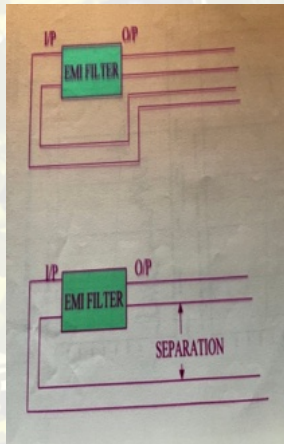
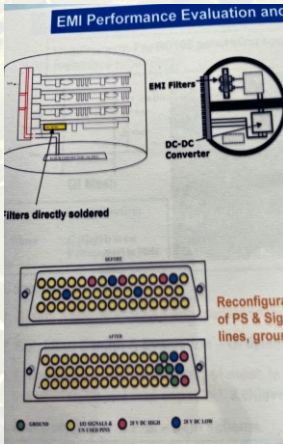
**ELECTROMAGNETIC COMPATIBILITY IN OUR HANDS (EOH)**



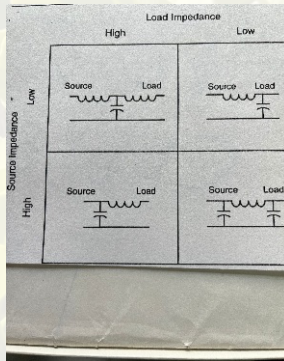
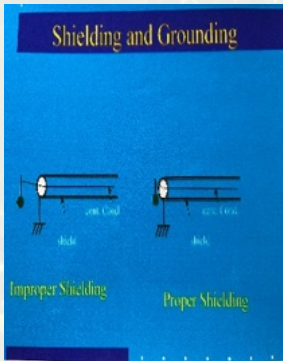
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## SGOI - HYDERABAD

EMI/EMC Hardening & Implementation of EMC Measures. **Providing Filtering, Shielding, Grounding, Earthing, Isolation, Routing & Re-routing.** EMI hardening of generator sets.



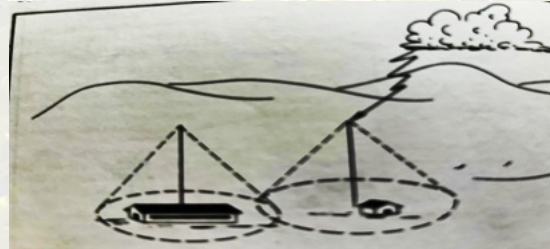
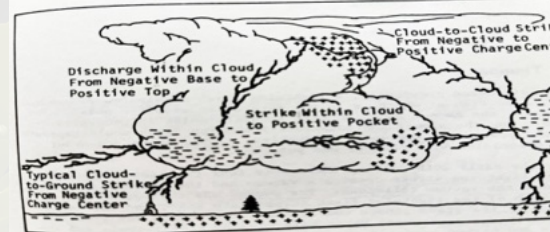
Shielding Integrity Improvement of Shielded Shelters & Shielded Enclosures. Shielding design to RCC buildings for protecting outside environment / from outside environment for indoor activity Protection against Radiation Hazards. Protection against Electrostatic Discharge



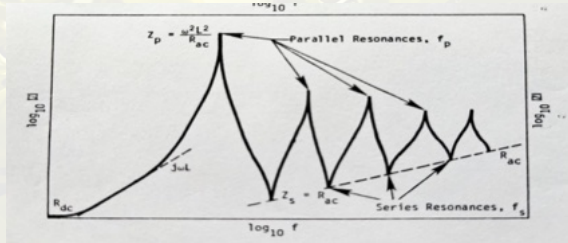
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## SGOI - HYDERABAD

Protection against Electromagnetic Pulse. **Protection against Lightning.** Case studies at any site / at SGOI, Hyderabad.



Building Scientific base awareness on EMI/EMC at any site or at SGOI, Hyderabad. **Providing / Executing the Project works for Students of Diploma, Engineering, P.G. level on EMI/EMC.**



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## SGOI - HYDERABAD

Providing Shielding Material : Conductive Gaskets, Conductive paints, See thru panels, Honey combs, Shielded Air vents, Shielded braids, Conductive adhesive tapes (Aluminum and copper) as per custom design. See thru panels, Honey combs, Shielded Air vents, Shielded braids, Conductive adhesive tapes (Aluminum and copper) as per custom design.



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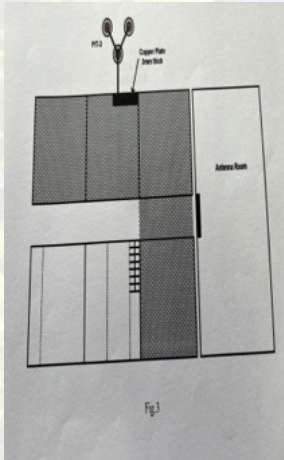
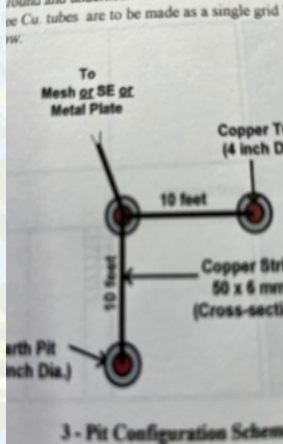
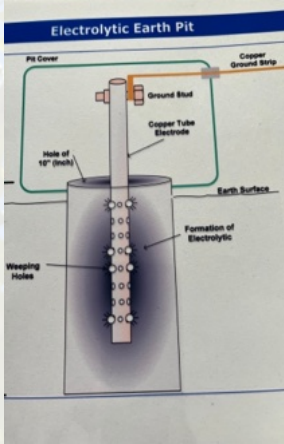
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## SGOI - HYDERABAD



**CONSULTANCY FOR ELECTROMAGNETIC COMPATIBILITY GOAL (CFEG)**

Inter system, Inter system EMC design. **Shielded Enclosures design.** Mobile Shielded Shelters design. **Establishment of EMI/EMC laboratories or Facilities.**



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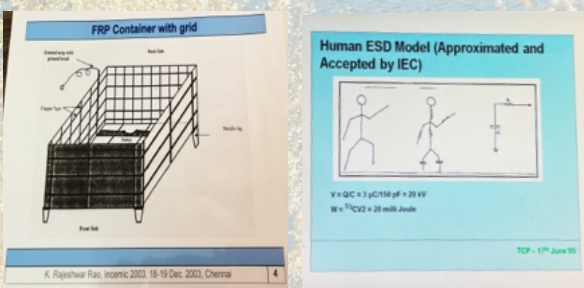
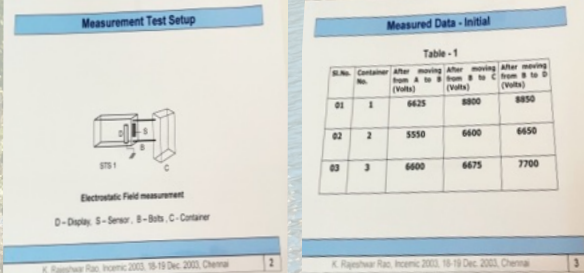
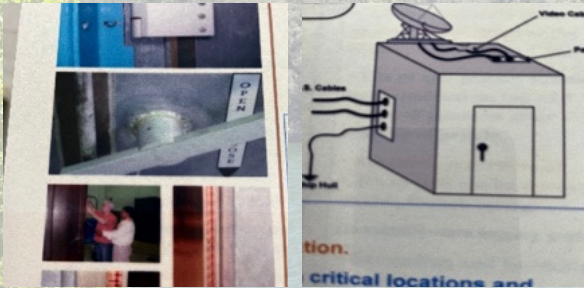
## SGOI - HYDERABAD

Designing of Powering up Schemes for Facilities

EMI/EMC Test Benches design

Chassis design based on deployment

System / Sub-system level design of Shielding, Grounding, Bonding, Filtering, Isolation, Earthing and Routing for: Airborne, Ship-borne, Ground, Mobile Shielded Communication Shelters, Automobile, Industrial and Commercial.

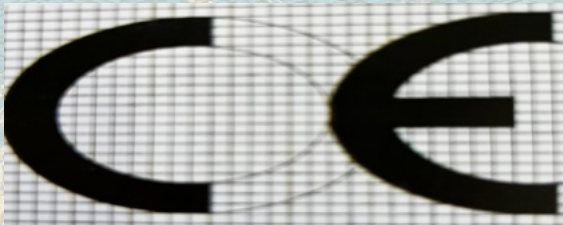
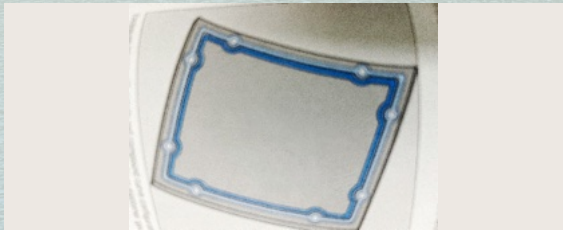
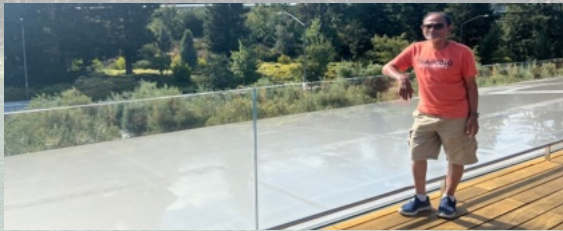
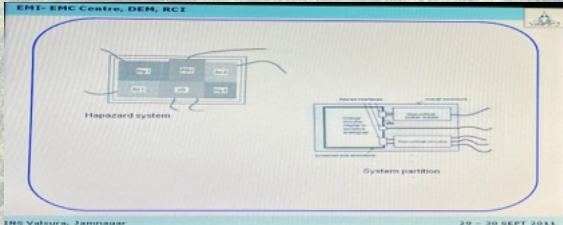


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Generator Sets : Filtering, Shielding, Grounding, Chassis & Isolation design.

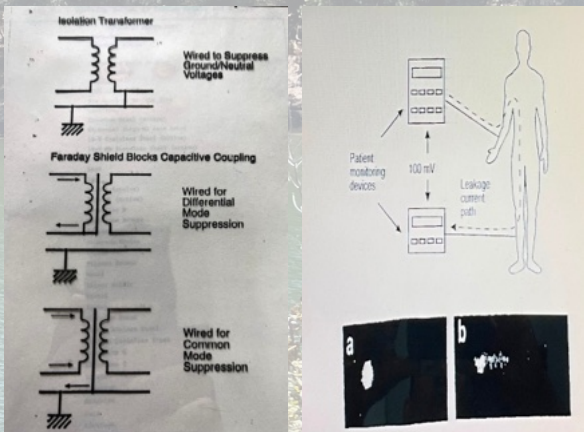
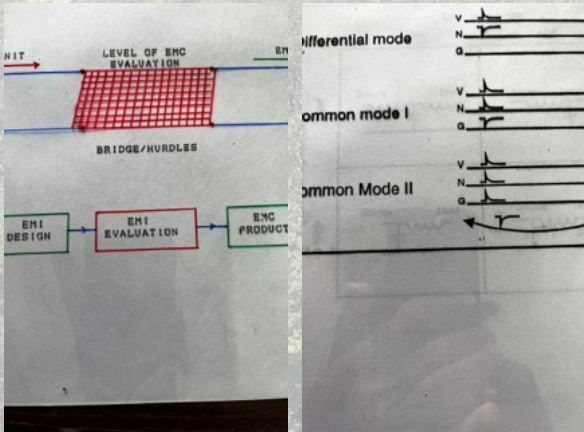
Shielding, Grounding, Earthing & Lightning protection design for RCC Buildings - Indoor operations.

Electrolytic Earthing design for Facilities / Test Centers



Radiation Hazards (EMI Hazards) protection design. Electromagnetic Pulse protection design (System/Sub-system level).

## SGOI - HYDERABAD



COMET TAIL LENGTH (micron)		
	BEFORE	AFTER
02mT	1.81	3.21
02mT	1.26	2.62
05mT	2.68	4.20
07mT	1.56	5.02
10mT	1.54	6.63

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System/Sub-System Level Lightning protection design.

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Operating EMI/EMC Laboratories / Test Centers on Contract basis

Operating Electrical, Electronics, Electromechanical, Mechanical, Computer Facilities on Contract basis

Providing different levels of EMI/EMC Experts on Contract basis to the Organisations/ Laboratories :Technicians, Scientific/ Technical Assistants, Engineers, Data Entry Operators. Providing Trained Manpower for Operating Electronics, Electrical, Mechanical, Electromechanical, Computer Equipment: Technicians, Scientific / Technical Assistants, Engineers, Data Entry Operators.



## SGOI - HYDERABAD



Providing / Executing the Project works for students of Diploma, Engineering, P.G. level

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III. BOARD OF DIRECTORS

Director, Institute of Scientific Base & Concepts (ISB & C).Director, Electromagnetic Compatibility in Our Hands (EOH). Director, Consultancy for Electromagnetic Compatibility Goal (CFEG).

## SGOI - HYDERABAD

Director, Base of Electromagnetic Compatibility Experts (BOEE)

Director, AutoMotion (DAM)

Director, Purchase & Planning (P & P)

Director, Human Resources (HR)

IV. REQUIREMENT PROJECTION

The needy shall be projected their Technical requirement to Sneshren Group of Institutions (SGOI) through Mail or Letter. The needy will receive Technical, Commercial terms & conditions after scrutinizing the feasibility of required work.

POINT OF CONTACT

Director, Purchase & Planning

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Address For Communication :

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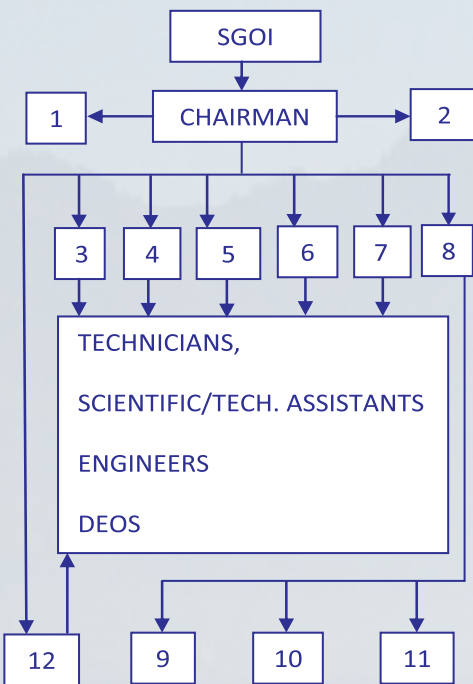


Expert Shielding Material Design & Development



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V. ORGANISATION STRUCTURE



- 1. DATA BASE CENTER
- 2. SECRET WORKS CELL
- 3. ISB & C
- 4. EOH
- 5. CFEG
- 6. BOEE
- 7. P & P
- 8. HR
- 9. ADMINISTRATION
- 10. ACCOUNTS
- 11. TRANSPORT
- 12. AutoMotion

SGOI - HYDERABAD

VI. DECLARATION

The SGOI members proudly declares that we never failed in achieving EMC so far, for the task we took. We always crossed much above the qualifying Bench mark.

For crossing the qualifying bench mark at minimum time, purely depends on transferring or sharing or exchanging the problem to SGOI without any Technical/Scientific gaps.

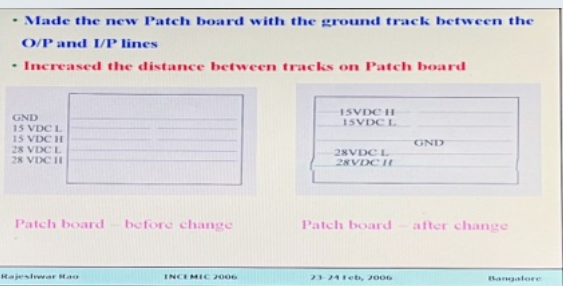
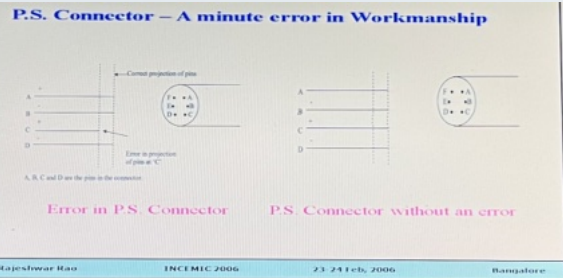
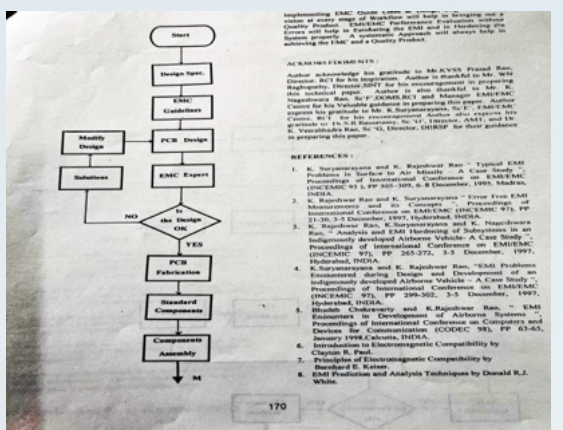
EMI/EMC purely follows the Natural Phenomena. We must respect and try to reach the goal as Phenomena says. Reaching the goal is always possible.

Avoid EMI interruptions in Natural flow of Current, it will not bother any one.

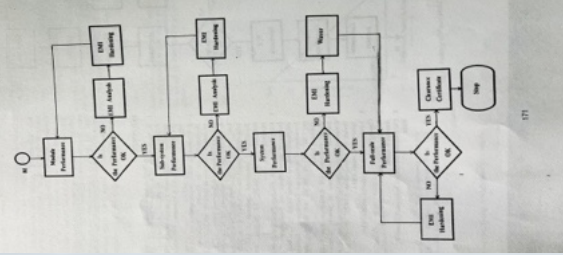
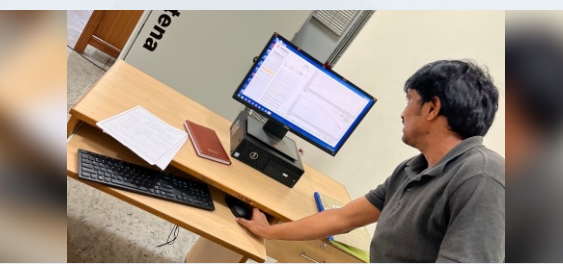


High Altitude Analysis

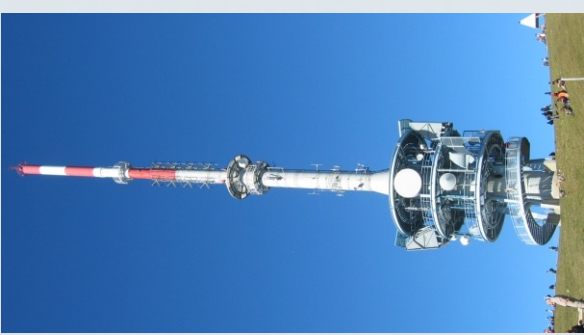
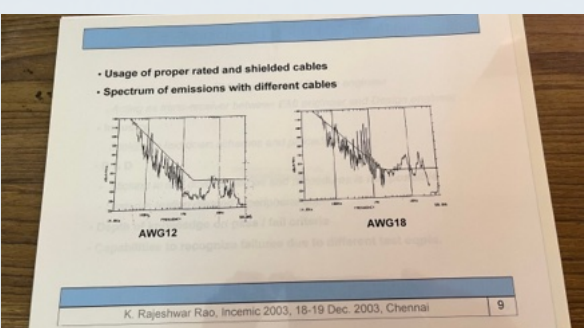
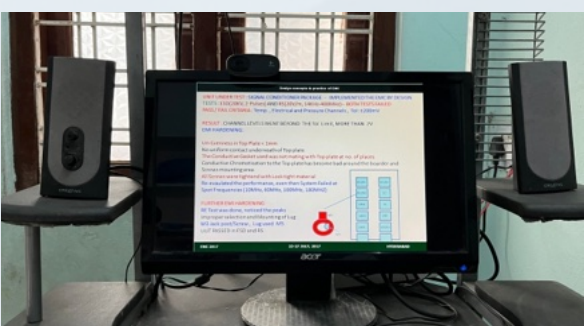
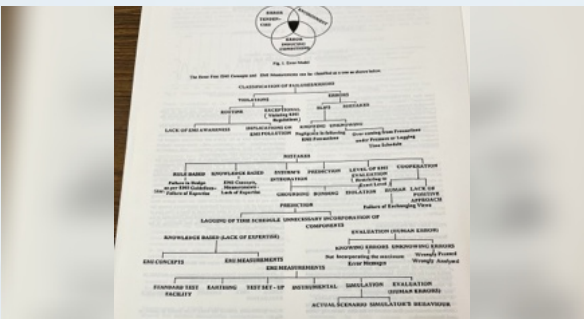
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