I SIG/P - Policy Matters

Policy on Signalling Systems

1. Track Detection System- DC Track circuit, Audio Frequency Track Circuit, Communication Based Track Control System, Single Section / Multi section Axle Counter & other track circuits.

2. Electronic Interlocking / Electrical Relay Interlocking for stations and sections.

3. Train Collision Avoidance Device (TCAS).


5. Continuous Automatic Train Control Systems/CBTC etc.

6. Train Protection & Warning System/ETCS etc.

7. Block Proving by Axle Counter and Block Instruments.


11. Cross Approval of Electronic Signal Equipment.

12. LED Signal lamps.


14. Signaling in 25 KV RE areas.

15. Electric Lifting Barriers.

16. Integrated power supply (IPS) and LM & VRLA Batteries.
17. DG set for Signalling systems.
18. Codal life of S&T equipments
20. Procurement Policy for safety items – Cables, IPS, Batteries, LED Signal, etc.

Development of Advanced Signalling

1. Prototype Development & Trials for new Signal Equipment.
2. Train Protection & Warning System (TPWS) – Pilot Project on North Central Railway & Southern Railway.
3. Train Collision Avoidance Device (TCAS) – Development.
5. Electronic Interlocking.
6. Relays – Metal to Metal, Metal to Carbon.
7. Single Section Digital Axle Counter.
8. Multi Section Digital Axle Counter.
11. Private Number Exchange (PNE) Equipment for Gate Communication.
12. Battery Life Enhancer.
15. ICT Expert Committee.
Co-ordination with RDSO - Technical Wing of Railway Board

1. Development of FRS for Modern Signalling Sub-Systems.
2. TPWS Specification.
3. Specification, Inspection Reports & matters related with RDSO.
4. Working Groups for AFTC.
5. Working Group for Data Loggers.
8. CBRR & GCM of RDSO.
9. Nomination of Select Committee and Working Groups.
10. Signaling Cables.
11. Vendor Approval – Development of Sources.
12. Indigenous Development and Manufacturing of Signaling equipment.
14. Project Review Committee Meeting with DOE, DSIR etc.
15. Technical correspondence & reports.
16. Approved List – Updating every six months.
17. Expression of Interest.
18. Transfer of Technology.
II  SIG/S  -  Safety Performance

**General Performance:**

1. Reliability/Availability & Safety improvement.
2. Punctuality position.
3. Asset Reliability - MTBF/MTTR.
5. PCDO to CRB.
6. PCDO to ML.
7. SPJ Shield for best performance.
8. Innovations.
9. Status to Board Members (ML, FC, CRB).
10. Monitoring of restoration works & Non-Interlocked working.
11. Achievements of Signal Directorate – Last 25 years (data).

**Safety Performance**

1. Unusual Incidents and wrong side failures – Investigation & corrective action.
4. General correspondence on Accidents.
5. Railway Safety Review Committee (RSRC-98).
7. Disaster Manager Review.
8. Signaling for operation during FOG, Modified Automatic Signalling.

**III  ** *SIG/T - Technical Issues*


2. G&SR – Co-ordination for correction slips related with Signalling.


6. Asset statistics.

7. S&T Work Load (ZISTUS).

8. MIS for S&T Deptt.


10. ODC movement clearance & clearance for running of new type of loco, rolling stock or composition.

**IV  ** *SIG/HS - High Speed Corridors & PSUs*

1. Modern Signaling in Dedicated Freight Corridors.

2. Modern Signaling in Metros.

3. Modern Signaling on High Speed Rail Link.

4. Technical & Safety clearance of Metro & other projects MRVC, DMRC, BMRCL, KMRCL, DFCCIL, RVNL, RCIL, IRCON, RITES.

5. G&SR and IRSEM for Kolkata Metro.

6. Co-ordination with PSUs like RVNL, MRVC, DMRC, RVNL, DFC, BMRCL, KMRCL, RCIL, IRCON, RITES.

7. Works assigned to RVNL
**V  SIG/M  -  Meetings and Conferences.**

1. MR’s Safety Review Meeting.
2. GMs Conference – Brief & Talking Points.
3. Board Meeting / Review.
4. SSC – Signal Standards Committee.
5. CSTE’s Conference & CSE’s Conference
6. Meeting with CCRS/CRS.
7. CSTE/C & Proj’s Works Planning & Review Meeting. Workshop Production Schedule
9. IRSTE/IRSE Seminars, Conferences & Conventions.
10. TCAS/TPWS- Implementation and Review Meeting.

**VI  SIG/TW -  Training & Workshops**

Training

1. Training & allotment of IRSSE probationers.
2. STTC – including new Training Centers – Training facilities.
3. IRISET – Gazetted Training, Supervisors Training.
4. Equipment Training – India/Abroad.
5. Training on Advanced Technology Equipment – EI, Data Loggers, IPS, LED.
6. IRISET Advisory Committee.
7. Utilization of Training facilities.
8. Special course for SAG officers.
Workshops

1. Review of Workshop Performances & Products.
2. Monitoring of Production of important workshop items.
3. Modernization of workshops.
4. Setting up of new workshop called Rail Electronic Signal Component Factory at Coochbehar.

VII SIG/IC - International Co-operation

1. Funding of Railway Projects - JICA -DFC Project, KfW Loan.
2. MOU with Foreign Railways.
3. Foreign Technology Collaboration.
5. MR/PM’s visit to foreign countries.

VIII SIG/G - General Issues

1. Representation from staff/references from public.
3. Inspection note of CRB / Board members and Additional Member.
4. Brief to CRB / ML / AM(Signal) on visit to Railways.
6. Fire & Theft cases.
7. Assistance required from Board.
8. Patents, IPR and Copyright.

9. Committee of Directors / EDs / Advisers / AMs.

10. D&AR Cases of S&T Staff/Officers.

IX  SIG/E  -  Establishment Matters

1. Staff Matters and S&T Cadre – Gazetted / Non-Gazetted.

2. Yard stick for NG staff for maintenance of Signalling.


4. Coordination with regard to Gazetted Establishment Matters pertaining to Signaling Department.

5. Inter-Ministerial issues – exempting S&T for disability quota.


X  SIG/WP  -  Works Programme, Budget, Works Planning and Expenditure Control

1. S&T estimates – Procedure/Practice

2. PH 29 & 33 Works Programme (Preliminary, Final, Supplementary)

3. Funds Projection for Signalling works under PH 29, 33 & PH 16


5. Funds utilization and expenditure control.

6. Monitoring of Modern Signalling - TPWS, TCAS, TMS, Large EI, RRI, Auto Signalling etc.

7. Progress and Monitoring of Signalling works sanctioned under S&T Plan Head PH33, Road Safety under PH29 and Line Capacity Enhancement work under PH16.
8. Project Planning for 12th Five Year Plan.

9. Compliance of MR’s Budget Speech

10. Intra Division – Estimate verification / Comments with regards to signaling works sanctioned as a part of Doubling, New Line, Crossing Station, Yard Remodeling, Railway Electrification.

11. Sanction of Detailed / Revised Estimates at MR’s level.

12. Detailed / Revised Estimates and Other Plan Head – Sub-estimates

13. Annual / Five Year Plan / Co-corporate Plan


15. IRPMU- KfW funded Modernization of Signaling on GZB-CNB


17. Classification of Routes

18. Allotment of Budget


20. Re-appropriation of funds.

21. Mid Term Appraisal of 11th Five Year Plan.

22. M&P.

Parliament Questions on above including signaling system on Railways for safety of passengers, technology for preventing train collisions.

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