

ROLE OF BRIDGE WING

The Bridge Wing of Civil Engineering Department of Southern Railway Head Quarters Office has the following responsibilities:

❖ **Management and Rehabilitation of Bridges:**

- Monitoring on Inspections and Maintenance of Railway bridges, ROBs/RUBs, subways, Tower- light structures, steel tanks, workshop structures and other important steel structures
- Planning for bridge works viz replacement of superstructure, rehabilitation of bridges, rebuilding of bridges
- Approval of General Arrangement Drawings of the Rail bridges/ Limited Use subways submitted by Divisions, Construction Organisation, *Rail Vikas Nigam Limited* etc., and of ROBs/RUBs submitted by Construction Organization, State/National Highways, Depositors etc.,
- Sponsoring of proposals for bridge works through Railways' works programme
- Monitoring the budget for bridgeworks
- Monitoring the progress of execution/rehabilitation of Railway bridge works
- Monitoring the progress of Execution of ROB/RUBs

❖ **Analysis and Design of Civil Engineering Structures:**

- Analysing and Design of steel and concrete structures for Railway bridges, Railway buildings, ROBs & RUBs, Limited Use subways etc., and issuing structural drawings for execution, apart from approving the structural drawings submitted by Field Engineers

❖ **Flood Monitoring**

- Flood section verifies the adequacies of the water way and suggests the optimum span to be provided whenever rebuilding of any bridge is contemplated and also when a new bridge is proposed during doubling of any section. Maintains the Rainfall details recorded at various specified locations in the Railway

❖ **Track crossing proposals**

- Whenever any proposal for track crossing viz pipeline (carrying water or sewage) crossing, Cable crossing etc., is received, technical clearance such as the minimum thickness of the carrier pipe to be provided and fulfillment of other technical guidelines issued by Railway Design and Standards Organisation are advised.

❖ **Processing for sanction of Commissioner of Railway Safety**

- Sanction of CRS for increasing the speed of the section and clearing JSC for Projects (GC, DL, RE, NEW)
- Clearing JSC for introduction of new Rolling stocks and increasing of speed of the existing rolling stocks for GM sanction.

❖ **Co-ordination with State Governments of Tamilnadu, Kerala, Andhra Pradesh, Karnataka etc.,**

- regarding construction of new ROB/RUBs, widening of existing ROB/RUBs etc.,
- Proposing for sanction for ROB/RUB in lieu of Level Crossings based on technical feasibility
- Railway Affecting Tanks/Works

❖ **Technology Upgradation**

- Adoption of Innovative technical means for bridges and structures for optimal utilization of assets.