

GOVERNMENT OF INDIA (BHARAT SARKAR)  
MINISTRY OF RAILWAYS (RAIL MANTRALAYA)  
(RAILWAY BOARD)

No.2007/Tele/WP/1/IT

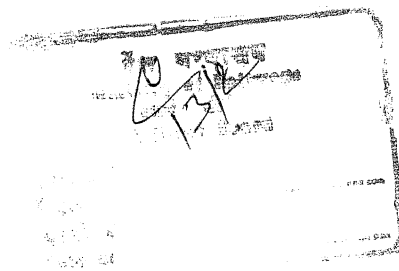
New Delhi,  
Dated: 12.2.07

The General Manager,  
All Indian Railways.

**Sub: Design, Provision, installation, maintenance and commissioning of telecom data network for IT applications.**

The issue in regard to design, provision and maintenance of telecom data networks and telecom equipments for IT applications has been under consideration in Board's office. **The issue has been examined and following has been decided in consultation with C&IS Dte. of Railway Board:-**

- (i) Telecom Dte. in Railway Board would be responsible for design, provision and maintenance of telecom data networks for IT applications on Indian Railways. Accordingly, S&T Deptt. on Zonal Railways would be responsible for this activity on zones.
- (ii) Network should be designed taking into account the following:-
  - (a) locations to be covered for all IT applications during 11<sup>th</sup> Five year Plan like UTS, PRS, FOIS, COIS, CMS, workshop connectivity, E-working, weighbridge connectivity etc.
  - (b) Network should be IP based and an integrated network so that backbone cost for future applications at the same location are minimum. Some applications may need to be taken on Railnet as needed. Railnet's security and working needs to be improved to cater to this.
  - (c) Network should make maximum use of IR infrastructure i.e. both Railways and RailTel's network and equipments so that capital cost and recurring rental outgo to DOT is reduced, maintenance needs are low and there is no equipment duplication.
  - (d) Network should be capable of being integrated with various existing network in use for IT systems. i.e. UTS, PRS, FOIS etc.



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- (e) It is to be ensured that network is secured and foolproof to prevent any frauds, attack, theft etc. which can lead to making the system vulnerable and compromise the security of the financial transaction being made through the network.
- (f) **Media and route diversity have to be planned. Availability of communication link and connectivity has to be better than 99.95%.** Railway has to therefore build adequate media/route/service provider diversity as needed to achieve this. Hiring of channels from other service providers can be planned by providing protection on an overall basis over and above Railway/RCIL's links. **Since local leads are normally the weakest link, diversity for local leads should also be built up as needed.**
- (iii) All data equipments such as routers, switches, LAN, LAN extenders, modems, VSAT equipments and channels at Zonal HQs, Divisional HQs as well as other way stations and locations will be maintained by S&T Deptt. Responsibility and maintenance of servers and other equipments supporting the main PRS network on 5 nodal railways and terminal systems such as PCs, printers and associated equipments is already with CRIS/Operating/Commercial Deptts. and will continue to be with them.
- (v) Under no circumstances, there should be delay in meeting target dates and commissioning of various works in progress such as UTS, FOIS, PRS etc.

*O/c.*

*[Signature]*  
**(Mahesh Kumar)**  
**Exec. Director (Telecom)**  
**Railway Board**

*12/2/07*

Copy to:

1. AM(C&IS) for information.
2. AM(Budget, EDF(X)II, DF(X)I & II for information.
3. CSTE/All Indian Railways for information and necessary action.
4. CCMs/All Indian Railways for information and necessary action.

Copy to:

MD/RCIL for information and necessary action.

