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Sub: Material for Indian Railways Year Book 2009-10 compilation thereof.


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Please find enclosed the chapter/para related with Telecom Dte. for the compilation of Year Book, Annual Report & Accounts and Facts & figures 2009-10.

DA: As above


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ED/S&E


8/10/10

Telecommunication

Telecommunication plays an important role in train control, operation on IR. With the rapid growth change in Telecommunication technology, Indian Railways decided to go for the state of the art, nationwide telecom network for meeting its communication needs and earning revenue by exploiting surplus capacity commercially. With this objective in mind, RailTel, a Railways PSU was formed in September, 2000.

By March 2010, 35,268 RKMs of OFC has been commissioned that is carrying Gigabits of traffic. RailTel Corporation is significantly contributing in building National Knowledge Network. It is also planning to provide Broadband connectivity to Panchayats.

Indian Railways have decided to adopt GSM-R based Mobile Train Radio Communication. The same has already been provided on 1,303 RKMs and is being extended in other sections.

Railways own satellite hub has been established and is being utilized for connecting remote location for FOIS and UTS application.

Railways have also established its MPLS based NGN for voice traffic. It has integrated the MPLS based NGN with all its zonal and divisional exchanges.

For the convenience of passengers, Train Information Boards have been provided at 1,090 Stations, PA systems at 3,748 stations and coach guidance system at 428.

Important Telecom assets are tabulated below:-

SN.	Installation	As on 31.3.2009	As on 31.03.2010
1.	Railway Telephone Subscribers Lines (Numbers)	3,01,292	3,51,678
2.	No. of Control Sections provided with Dual Tone Multiple Frequency (DTMF) control equipment (Number)	309	310
3.	Control communication through wireless (18 GHz) (Route kms.)	989	168

4.	Mobile Train Radio communication System (Route kms):-		
a.	GSM (R) based	700	1,303
b.	TETRA based	345	345
5.	Optical Fibre Cable communication (OFC) System for control communication (Route kms)	30,846	35,268
6	Digital Microwave (7 GHz) (Route kms.)	7,093	6,811
7.	Public Address System (No. of stations)	3,418	3,748
8.	Train Display Boards (No. of stations)	1,055	1,090
9.	Coach Guidance System (No. of stations)	370	428