

TELECOMMUNICATION Achievement 2008-09(up to Jan.09)

1. Launching of Video Conferencing System:

Video Conferencing System has been commissioned between GM's office at Hajipur and all the five Divisions of East Central Railway during the month.

2. GPS based Information System:

A GPS based real time information system under "SIMERON" (Satellite Imaging for Rail Navigation) project has been installed at Patna Jn. On trial by RDSO/Lucknow and IIT/Kanpur on 01.12.08. The system tracks the position of selected trains with the help of on board GPS module and displays the information on large LCD panel and on a true Video screen installed at the main concourse

3. Commissioning of Wi-Fi System:

Secured WI-Fi system has been commissioned in GM office Hajipur covering entire office building with wireless access. Railnet/Internet can be accessed using user ID and password. Further, advanced conference system has also been installed in GM's conference hall in new GM office building at Hajipur. It has both wire and wireless delegate units.

4. Surrender of BSNL leased circuits: 19

S.No	Circuits Details	Saving
1	O/H Sakri-Nirmali(53 Kms)	0.50 Lakh per annum
2	O/H Darbhanga-Jainagar(70 Kms)	
3	O/H Samastipur-Khagaria (86Kms)	0.34 Lakh per annum
4	64 Kbps data channel for FOIS between Dhanbad-Mughalsarai	1.27 Lakh per annum
5	O/H Kiul-Gaya(128 Kms)	0.506 Lakh per annum
6	O/H Darbhanga-Sitamarhi(68 Kms)	0.268 Lakh per annum
7	ADM Circuits between HJP-MGS	3.2 Lakh per annum
8	ADM Circuits between HJP-SPJ	
9	2 Mbps circuits between HJP & Bidcauman/Patna	
10	08 nos. Data Channel for PRS (9.6 Kbps from Samastipur to Chakia, Shaharsa, Sugauli, Raxaul, Madhubani, Nirmali, Ghorasahan & Simribakhtiyarpur stations)	6.69 lakh per annum
11	PRS circuit between Dehri-on-sonne - Kolkata	1.1 lakh per annum
12	PRS circuit between Dehri-on-sonne - Gaya	0.6 lakh per annum
Total	19	14.48 lakh

5.Provision Railnet Facility:

Rail net along with dedicated server has been commissioned at Sonpur in Sonpur Division

6. Provision of Webmail Facility:

Webmail facility with universal access has been provided at Zonal Headquarter/Hajipur

7. Implementation of Airtel CUG:

Airtel CUG has been implemented in HQ and all the five divisions of E.C.Rly.

8. MTRC:

MTRC network of ECR for Dhanbad to Mughalsarai on GC route has been temporarily parented with MSC of Northern Railway at New Delhi and is functional on trial basis. The detailed testing and radio coverage is being under taken to improve performance and further adjustments.

9. Touch & Feel items:

S.No	Items	Nos.
(i)	Train Indication Board	02 (Madhabani,Jainagar)
(ii)	Coach Guidance System	07 (Barauni,Dhanbad,Raxaul,Darbhanganga , Bapudham Motihari, Ara, Buxer)
(iii)	Digital Clock	02 (MGS Divn
(iv)	PA System	30
(v)	Video conferencing – based enquiry system	07 Patna City, Rajendranagar kiul, Jhajha, Mokama, Bakhtiyarpur & Buxer)
(vi)	PRS Fare display system	01 (Darbhanga)
(vii)	PC-based announcement system	12 (Begusarai, Harinagar, Chakia, Sakri, Laheriasarai, Hasanpur, Bugha ,Simribakhtiyarpur,Supaul, Raghapur , Chandrapura,Hayaghat)

10. Electronic Exchange: 03

(Darbhanga, Narkatiaganj ,Samastipur)

11. Provision of BSNL Telephone at Stations: 25 nos.

12. Provosion of 25-watt VHF Set: 02

(ASM room/Pandaul and Nakardei flag station)

13. Commissioning of CCTV: 01(Samastipur)

14. Commissioning of PRS: 05

(Vishnupad Gaya , Sherghati, Ramgarh ,Daudnagar & Akshyabat Rainagar)

15. Commissioning of UTS: 23

(Tori, Dauram Madhepura, Sitamarhi, Supaul, Lahariasarai, Raghapur , Jhanjharpur ,Rajnagar, Japla, , Ghorasahan, Nirmali, Khajauli, Hilsa, Harnaut,Vishnupad Gaya, Delha Gaya , Ekangansarai, Khusrupur , Ranchi Road,Semapur, Karhagola, Kursela, Janakpur Rd. & Laukaha Bazar)

14. Provision of Voice-Logger in Control Office: 03

(Dhanbad, Barkakhana & Chopan)

15. WLL/Exchange in ART: 01(SEE)

16. DID (Direct inward facility):

DID (direct inward dialing) facility has been provided in Patna railway Exchange. Subscriber can dial any Railway telephone of Patna from any outside non Railway telephone by dialing the prefixing digit '27'.

16. 2 Mbps connectivity: 08

- (a) PRI facility has been provided on Railway Exchange at Hajipur to Railway Board/New Delhi.
- (b) PRI connectivity has been provided from Samastipur Railway Exchange to Darbhanga and Patna Railway Exchange in Samastipur Division.
- (c) Existing connectivity for MIS has been upgraded to 2Mbps between Hajipur-Sonpur, Hajipur –Danapur and Hajipur-Samastipur.
- (d) 2 Mbps link for PRS/UTS has been commissioned between Fatuha & Islampur in Danapur Division
- (e) 2 Mbps (E1) connectivity has been commissioned between Dhanbad -Chopan for Exchange in Dhanbad division

17. Commissioning of OFC:110.5 Kms

18. Commissioning of Quad Cable : 240.5 kms

19. Improved Control Working:

- (a) OFC has been commissioned between Darbhanga-Jainagar(70 Kms) in Samastipur Division and control circuits transferred on OFC, thereby, improving the reliability of control circuits.
- (b) Quad Cable has been commissioned between Darbhanga-Sitamarhi(68 Kms) in Samastipur Division and control circuits transferred on OFC, thereby, improving the reliability of control circuits
- (c) 4-wire control circuit has been commissioned from Sonpur to Ramdayalunagar (Kms)on quad cable along with emergency communication in Sonpur Division.

20. Provision of Control Patching: 08

- (a)Control patching channel has been commissioned between Samastipur and Garahpura in Samastipur Division.
- (a) Control patching arrangement has been provided at Goraul Station in Chapra Control by providing MUX at Goraul MW in Sonpur Division.
- (b) Radio patching has been provided on 7 Ghz microwave at Garwah Road, Daltonganj, Barwadih & Tori in Barkakana-Garwah Road section control in Dhanbad division
- (d) Control Patching has been provided between Sonpur-Dighwara on OFC in Sonpur Division.
- (e) Reverse patching facility has been provided at Valmikinagar station from Gorakhpur through Railway OFC in Samastipur Division

21. Up gradation of PRS/UTS: 28

S.No	Decription
1	PRS/UTS at Dighwara & Thanabihpur have been upgraded from 9.6 Kbps to 64 kbps in Sonpur Division
2	PRS at Tori & Latehar stations have been upgraded to 64 Kbps in Dhanbad Division.
3	Five channels have been hired between Samastipur-Dalsinghsarai, Dalsinghsarai-Mohiuddinnagar, Mofiuddinnagar-Sahpur Patauri, Muzaffarpur-Dholi & Sahpur Patauri-Muzaffarpur for upgradation of PRS/UTS from 9.6 kbps to 64 kbps in Sonpur Division
4	PRS/UTS at Rajgir station has been connected to Patna on Railway OFC network in Danapur division. Previously, its connectivity was from Biharshrif, which was failing frequently on account of power supply failures.
5	64 Kbps data channel for PRS/UTS has been commissioned between Mohiuddin Nagar & Sahpur Patori in Sonpur Division.
6	Router based connectivity for PRS has been provided at Hilsa, Eknkangarsarai & Patna Sachiwalay stations in Danapur Division with this, the data connectivity at these locations have been provided with protection path.
7	64 Kbps Railway channel has been provided for PRS/UTS link between Gomoh-Chandrapura for route diversity in Dhanbad division
8	9.6 Kbps Railway channel has been provided for PRS link between Phusro-Barkakana for route diversity in Dhanbad division
9	2 Mbps Railway channel has been provided for PRS/UTS link between Rajendranagar-Patna City for route diversity in Danapur division.
10	UTS at Sakri has been transferred on OFC for route diversity in Samastipur Division.
11	UTS at Dalsinghsarai & Mohiuddinnagar has been transferred on router based system and provided with thin client in Sonpur Division.
12	PRS has been commissioned on RCIL OFC at Karpurigram in Sonpur Division & thereby providing diversity.
13	MUX based PRS at Islampur has been replaced with router based in Danapur Division
14	PRS & UTS has been unified at Sakri, Madhubani and Jainagar in SPJ Divn. Also Rly. OFC connectivity has been provided at unified PRS/UTS at Sakri, Madhubani & Jainagar, thereby providing service provider diversity
15	PRS & UTS have been unified at Supaul, Dauram Madhepura, Khajauli & Laukaha Bazar stations in Samastipur Division

22. Other Important Telecom Achievement:

S.No	Description
1	Video-Conferencing System has been commissioned from GM-Bungalow, Mahendrughat to GM-Chamber, Hajipur
2	Five nos. Mobile phones with Airtel SIM-card have been distributed among SE/JE/Tele as a compliance of recommendation of High Level Committee on disaster management in Sonpur Division
3	Integrated control communication system has been installed at Darbhanga & Narkatiaganj stations in Samastipur division.
4	COIS has been installed at Darbhanga station in Samastipur division
5	ICCS (Integrated Control Communication System) has been commissioned at Begusarai station in Sonpur Division
6	CMS (Coach Management System) has been commissioned at Sonpur, Muzaffarpur & Barauni stations in Sonpur Division
7	FOIS connectivity has been provided at four additional location using LAN connectivity in Dhanbad Division
8	Hot line circuit has been connected between Kanti (SEE Div.) Board to BUG (BMKI) Board in Samastipur Division
9	FOIS at Barauni has been connected to Sonpur on Railway channel to provide diversity in Sonpur Division
10	OFC has been commissioned between GM office/Hajipur and Patna. Thus will provide route diversity to existing E1 circuit connecting zonal office at Hajipur and Rly. Board
11	STM-1 link of Sasaram-Nokha section is connected with STM-4 link of Mughalsarai-Gaya at Sasaram in Mughalsarai Division
12	Mobile Dish TV has been installed in the Inspection Carriage (RA-3X) of Hon'ble MR
13	Automatic call routing facilities has been provided on Railway exchange at Hajipur to Railway Board, NR, ER & WR.
14	New RMS (Rack Management System) terminal has been provided at Chainpur in Dhanbad Division
15	Direct dialing (without any code) has been provided at Renukoot for Chopan and Dhanbad in Dhanbad Division
16	MUX based FOIS at Karpurigram has been replaced with router based on Railway OFC, thereby providing media diversity
17	Ring protection has been provided to Kiul-Gaya control, using Railway OFC from Mughalsarai-Gaya route and vice versa
18	OFC indoor equipment has been commissioned at all stations (06 stn.) from Sonpur to Baragopal in Sonpur Division
19	Ring protection has been provided for control communication in Katihar Board of Sonpur Division
20	Line up for MW stations from Bachhawara to Katihar has been done in Sonpur Division
21	Internet connectivity at Hajipur has been upgraded to 10 Mbps from 2Mbps in Sonpur Division
22	New CMS has been commissioned at Barwadih Crew Lobby in Dhanbad division.

23	Networking work for CMS has been completed at Dhanbad, Gomoh, Chandrapura, Ray, Patratu and Khalari stations in Dhanbad division
24	5 Digit numbering scheme has been implemented at Renukoot exchange in Dhanbad Division.
25	FOIS connectivity provided from Danapur to Mahendrughat/Patna RCT in Danapur Division
26	Connectivity for UTS/PRS between Patna-Nadwan & Nadwa-Taregana has been provided in Danapur Division
27	FOIS has been commissioned at Shaharsa and Narkatiaganj in Samastipur Division
28	Wi-Fi PRS enquiry terminal installed at GM secretariat/ECR/Hajipur

Status Of Passenger Amenities (Telecom)

Sl.No.	Items	Station Categories on which these Amenities to be provided as per norms			No. of stations where required as per norms	No. of stations provided	Action proposed to provide at balance stations including TDC in respect of works in progress
		Minimum Essential	Recommended	Desirable			
1.	PA System			A, B	40	40+201*	*Other than A & B class stations.
2.	IVRS		A, B		40*	02+01*	* With commissioning of ITES/Call Centre at Patna there is no need of IVRS over E.C.Rly.Existing IVRS is being surrendered.
3.	Clocks	A, B, C, D, E, F			411	411	-
4.	Coach Guidance System			At Modal stations	49	14	WIP at 04 Stations.
5.	Train Display Board			At A & Modal stations	49	39	WIP at (04+05*) 09 Stations * Other than A& Model stations
6.	Enquiry & Computer Announcement System			At A, B & Modal stations	49	82 (46+36*)	WIP at (3+7*) 10 Stations. * Other than Model stations

Provision Of BSNL Telephones At Way Stations

Total No. of Stations required to be provided with BSNL phones.		Stations provided with BSNL phones till the end of last month	Balance Stations yet to be provided	Balance Stations where BSNL phones are feasible	No. of Stations where phones can be provided following other options listed in Board's letter	Stations where not feasible under any of the option	Target date for the balance stations where feasibilities under any of the options is available.	Remarks (if any)
1		2	3	4	5	6	7	8
Division	Nos. of stations							
Dhanbad	119	117	02	1	-	1	March.09	
Mughalsarai	45	45	NIL	-	-	-	-	
Danapur	80	68	12	7	-	5	March.09	
Sonpur	60	50	10	7	-	3	March.09	
Samastipur	106	106	NIL	-	-	-	--	
Total= 410		371	39	20	-	19		

