PARCEL MANAGEMENT SYSTEM (PMS)

Pilot Project for 7 stations between Delhi & Howrah

- Railway Board Sanctioned *2 Crore* rupees for Pilot Parcel Management System (PMS) between 7 stations.
- PMS Started at New Delhi Parcel Office on *1st November 2006*.
- Implemented successfully at *Delhi, Kanpur, Allahabad, Gaya, Sealdah and Howrah.*

Main Features

- Direct capture of parcel weight electronically
- Universal windows for all destinations for booking
- Single window for weigh-ment and cash payment possible
- Advance unloading guidance about inward parcel from the system at destination
- Tracking parcel with help of barcode technology
- Parcel Website www.parcel.indianrail.gov.in

Parcel and Luggage Tracking Online [PLUTO]

WelCome to Railway Parcel Website.

Railway User

User Id

Password

EVENING SHIFT

Enter Station Code

Private Cash (Rs.) 0

Running Stationary No. 0

PWBK-Parcel Booking

Counter no. 1

Submit

Change Password

Railway and Division Users Login for Lease

Parcel and Luggage System covers the functional requirements of the Parcel WayBill and Luggage Ticket Generation. User groups directly dealing with these activities in particular Station will, primarily use this system. Data will be captured as soon as they are generated from different terminals placed in the relevant places dealing with the above activities. The internal sharing of information within different processes of the application would be done automatically.

Track Your Parcel

L.T./P.W.Bill No.

Submit Reset

Quick Links

- Download Forwarding Note
- New Parcel Rates
- Parcel/Luggage/Lease Rules 2005
- Parcel/Luggage/Lease Rules 2006
- Parcel/Luggage/Lease Rules 2007
- New Lease Rules
- Trains From Stations
- Trains Between Stations
- Hindi(देवनागरी) Installer
- Datawarehouse

This site is best viewed with Internet Explorer (version 5.0 and above) and preferably with 800 x 600 resolution

Design & Developed by Center for Railway Information System (CRIS), New Delhi

Copyright © 2004 CRIS All Rights Reserved.

MODULES

- **Forwarding Note**

  With the help of Electronic weighing machine weight of parcel is directly captured and sent to the system in this module. After complete information of consignment is filled, a unique forwarding note number is generated


COMMERCIAL AND LOGISTICS
FRAGILE
TYPE TM-U220PD-665
Prd-No. C31C518665
CODE C518665 0033 Q
MADE IN CHINA
CONTECH
4625

Modules (contd.)

- **Booking of parcel, Luggage and VP**

  Forwarding Note number generated in above module is fed into the booking module, thereby details of consignment to be booked by party comes into the screen and freight is calculated automatically. A unique 10-digit no. called PRR (Progressive Reference Record) No. is generated.

Barcoding-the process

- Bar-code label generated for all the packages booked against each PRR
- Barcode labels pasted on outward parcels for marking
- Barcode Label contains information about the parcel in coded form.

From:	To:
RAJBAHDUR HARI NEW HARINAGAR A	RAJBAHADUR HARI RAJARAM KA HATH
No. of Packages: 10	Item no: 1

2110-100398P10/1C
W984/98.4DLI-HWH

21101-00398

DLI -- HWH

Above Barcode When read by scanner reads as below

\0992110100398 0001HWH^

099 → Wt of package.

2110100398 → PRR No

0001 → Item No

HWH → Destination Stn



Advantages of Barcode

- Proven technology
- Easy to use
- Cost effective item-wise tracking is possible
- Unlike RFID not susceptible to electronic interference.

MODULES (contd.)

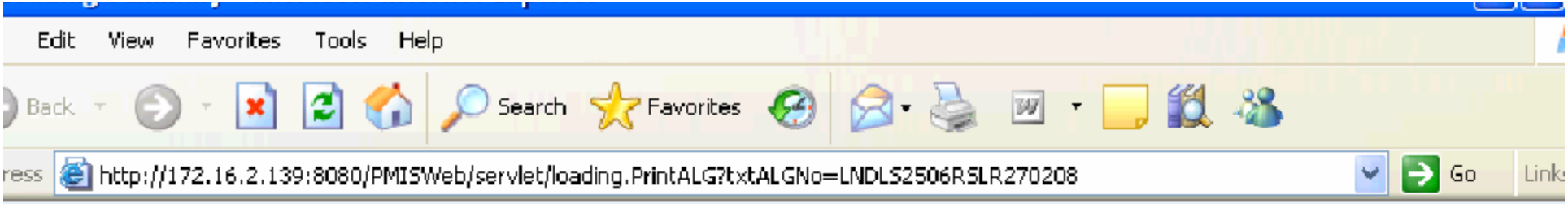
- **Loading**

  On selection of a Train no., loading potential displays all the parcels available for dispatch for a particular destination in a particular train scale.

  Based on the selection of packages Loading guidance is generated. Packages sent along with loading guidance to platform for loading.

  Parcels can be loaded after scanning by Barcode scanner and loading summary is recorded.





Loading Summary - NDLS

ading Summary Number: *	LNDLS2506RSLR270208
ain Number	2506
agon Type-Number-Sealed/Guard Charge	RSLR- - Brake Despatched Under **Guard Charge**
ading Date	21-Feb-2008 13:52
atform Number	1
ation RPF	_____
ummary Prepared By	OPGUPTA

NB

KT	Commo	Pkg Desc	PWB/LT No	PRR No	From	NOP	Wt(KG)	PKT	Nil No	Remarks
WB	HP	-	7286	2510300233	NDLS	3	30	SYSTEM ITEM		-
otal						3	30			

otal Packages Station Wise

ation Name	Number Of Packages	Weight Loaded
NB	3	30
otal Packages:	3	30.0

Print Exit Go Back

MODULES (contd.)

- **Unloading**

  Destination station has advance unloading guidance

  Inward packages can be scanned on arrival at platform to generate unloading summary.

- **Inward godown**

  Inward packages scanned on entry in Inward godown for godown management

MODULES (contd.)

- **Delivery**

  Recipient comes to delivery clerk with original receipt. PRR no. on the receipt is then feed by delivery clerk in delivery module. All the delivery details with charges comes on the screen. The delivery receipt is then generated by the delivery clerk.

  Goods are given to customer against the delivery receipt.

  Updation of inventory in inward godown

MODULES (contd.)

- **Tracking of parcels through online information of parcels on internet**

  Customer can track its parcel against PRR no. on the parcel receipt.

Edit View Favorites Tools Help

Back Search Favorites

http://www.parcel.indianrail.gov.in

Railway Parcel Website



Railway Parcel Website.

Parcel and Luggage System covers the functional requirements of the Parcel WayBill and Luggage Ticket Generation. User groups directly dealing with these activities in particular Station will, primarily use this system. Data will be captured as soon as they are generated from different terminals placed in the relevant places dealing with the above activities. The internal sharing of information within different processes of the application would be done automatically.

Track Your Parcel

PRR No.*

Submit Reset

* Enter 10-digit Progressive Reference Record(PRR) No.

Quick Links

- Download Forwarding Note
- New Parcel Rates
- Parcel/Luggage/Lease Rules 2005
- Parcel/Luggage/Lease Rules 2006
- Parcel/Luggage/Lease Rules 2007
- Wharfage table
- Parcel Calculator

MODULES (contd.)

- **MIS Reports**
  Report for parcel booking clerk, destination wise summary, counter wise summary , left-over packages summary and various other reports can be generated by system.

- **System Administration and Master Maintenance**
  This module helps in creating user database, adjusting the stationary number, logging out the locked user etc. Station, Train master are updated by Database administrator at CRIS/New Delhi.
  Party Master, Lease Party and Contract Master, FSLA Party and Dlist master etc. are maintained by Parcel Office Supervisor.

MODULES (contd.)

- **Lease**

  This module covers the Leasing of Parcel Space in the passengers Trains to the private party.

- **FSLA (Freight Service & Ledger Account)**

  This module is for daily Registered Newspapers & magazines to be dispatched in train by paying some security in advance and pays the dues at the end of the month.

MODULES (contd.)

- **Training**

  Audio visual help file installed at each terminal. This helps new user to listen and see how to use the modules in software.

- **Bug reporting**

  For reporting defects in software user can log it in this module, which can be viewed by software engineer at CRIS and can send the corresponding reply in that module itself

Data Warehouse

- Online database holds the data only for 3 months after booking. Data more than 3 months old is sent to another database capable of holding voluminous data, which is called data warehouse.
- A separate application has been made to access this archived data. A person can at any moment of time can fetch data from data-warehouse for various MIS reports.

Benefits

- Customer
  - Track latest status of the parcel
  - Reduction in time required for weighment and booking
- Staff
  - Automatic freight calculation based on latest rules
  - Reduction in human errors.
- Railways
  - Loading generally according to priority thereby curtailing malpractices and complaints
  - Beneficial to Accounts for internal check
  - Reduction in Claims
  - Potential for revenue generation based on improvement in service.

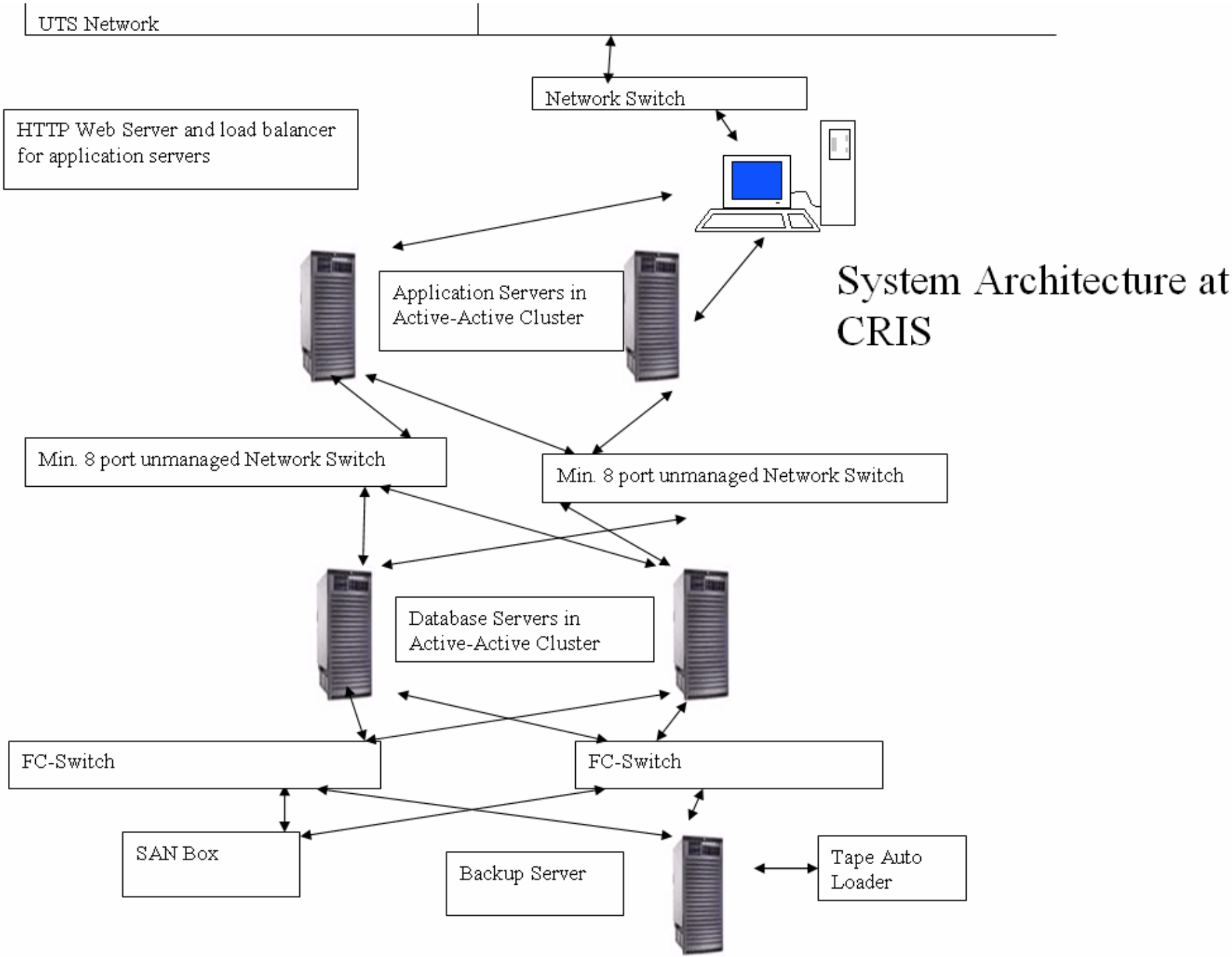
Statistics of Parcel way bill issued through PMS at 7 stns

	Nov 2007	Dec 2007	Jan 2008	Feb 2008
New Delhi	47363	48079	46496	46512
Delhi	24307	37599	31816	33856
Kanpur	753	1416	2388	790
Allahabad	302	280	2123	3263
Gaya	143	52	110	65
Sealdah	70	117	151	105
Howrah	593	1436	4201	12194

Further enhancements

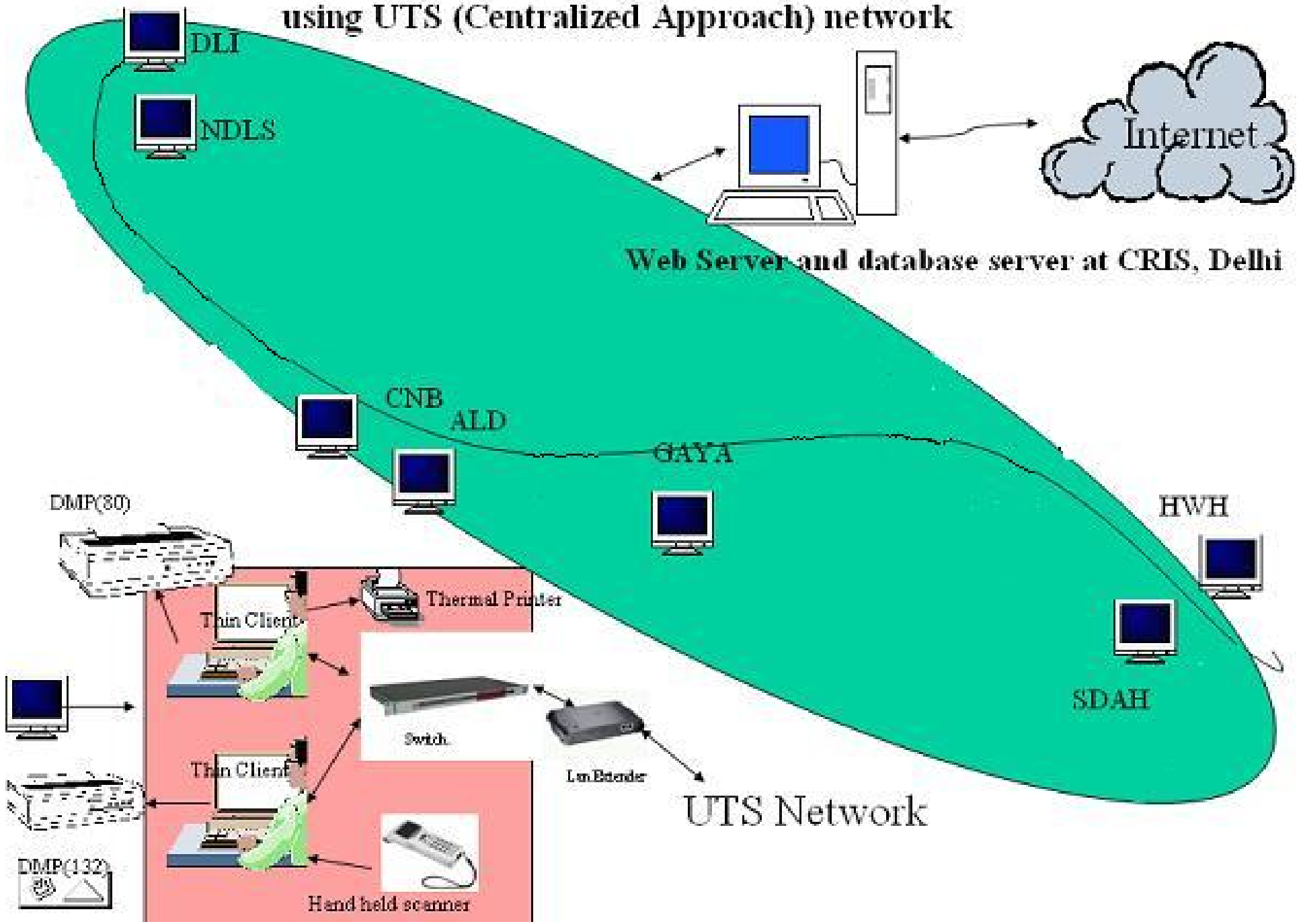
Computerization of Cloak room and Lost Parcel Offices will be done in Phase II

RFID technology will be considered in phase II for godown management



System Architecture at CRIS

DLI - HWH route setup for Parcel Computerization using UTS (Centralized Approach) network



What does PMS involve

- Centralized servers in CRIS
- Thin Clients/printers/switches/ups at booking offices
- Thin Clients/Electronic weighment machines/ switches/ups in godowns
- Barcode printers at common booking window
- Mobile Barcode scanners at platforms and inward godowns
- Wireless networking at platforms in long run

Role of CRIS

- Strengthening of hardware at central site CRIS
- Procurement and installation of hardware and networking equipments for stations
- Local Area Networking at stations
- Training of parcel staff and handholding support for three months at each stations

Role of Railways

- Identification of stations and forwarding of data in RB format
- Development of detailed implementation plans and completion of Major/Minor civil works
- Arrangement of Parcel Way Bill stationery/Barcode labels/Electronic weighing machines/printers?
- Providing Copper pair connectivity from UTS POP to Parcel office
- Enabling DG set power supply to parcel office

Role of Railways(contd.)

- Provision of furniture and electrical points at parcel offices for LAN and hardware(thin clients/printers)
- Provision of Air-conditioning
- Deputing selected staff for three days training at CRIS

Roll out on Golden Qudrilateral and its Diagonals- CRIS proposal

- **Amount sanctioned in Works Programme 2008-09 Rs.93.69 Crores**
- **Stations Proposed for expansion**
  - **Ist phase 119**
  - **IInd phase 105**
- **Routes proposed in Ist phase**
  - **New Delhi-Mumbai -- 16**
  - **Mumbai-SBC-Chennai -- 21**
  - **Chennai-Howrah -- 16**
  - **Howrah-New Delhi -- 14**
  - **New Delhi-Chennai -- 22**
  - **Mumbai-Howrah -- 30**

Stations proposed in Ist phase Rly-wise

- Central Railway 26
- East Coast Railway 9
- East Central Railway 7
- Eastern Railway 4
- North Central Railway 9
- Northern Railway 4
- South Central Railway 21
- South-East Central Rly 6
- South-Eastern Railway 6
- Southern Railway 3
- South Western Railway 4
- West Central Railway 11
- Western Railway 9

Routes Proposed in 2ND Phase

- Jammu Tawi-Kanniyakumari 38
- Tinsukhia Jn-Jaisalmer 31
- Saharanpur-Samastipur 22
- Delhi-Ahmedabad 14

Railway Board decision

S. No.	Railway	Proposed Stations	Total
1.	Northern Railway	NDLS/NZM, BSB,LKO, ASR,JAT	5
2.	North Central Railway	AGC, CNB, ALD,GWL	4
3.	North Western Railway	JP, AII, JU	3
4.	North Eastern Railway	LKO (LJN), GKP, SV	3
5.	Northeast Frontier Railway	NJP, GHY, KIR	3
6.	Eastern Railway	ASN, HWH/SDAH, MLDT, BGP	4
7.	East Central Railway	PNBE, MGS, DHN, MFP	4
8.	East Coast Railway	BBS, PURI,SBP,VSKP	4
9.	Central Railway	CSTM, PUNE, NGP,BSL	4
10.	Western Railway	ADI, BRC, ST, INDB	4
11.	West Central Railway	KOTA, BPL, JBP	3
12.	South Central Railway	SC, WL, BZA	3
13.	Southern Railway	MAS, ED, ERS, TVC	4
14.	South East Central Railway	R, BSP, DURG	3
15.	South Eastern Railway	RNC, TATA, KGP	3
16.	South Western Railway	VSG, SBC, MYS	3
Grand Total			57

Thank You

Stations proposed in rollout of PMS phase-I

1	Chatrapati Shivaji Terminus	CR
2	Pune	CR
3	Nagpur	CR
4	Bhusaval	CR
5	Bhubaneshwar	ECoR
6	Puri	ECoR
7	Sambalpur	ECoR
8	Vishakhapatnam	ECoR
9	Patna Jn	ECR
10	Mughal Sarai	ECR
11	Dhanbad	ECR
12	Muzzaparpur	ECR
13	Asansol	ER
14	Howrah	ER
15	Malda Town	ER
16	Bhagalpur	ER
17	Agra Cantt	NCR
18	Kanpur central	NCR
19	Allahabad	NCR
20	Gwalior	NCR

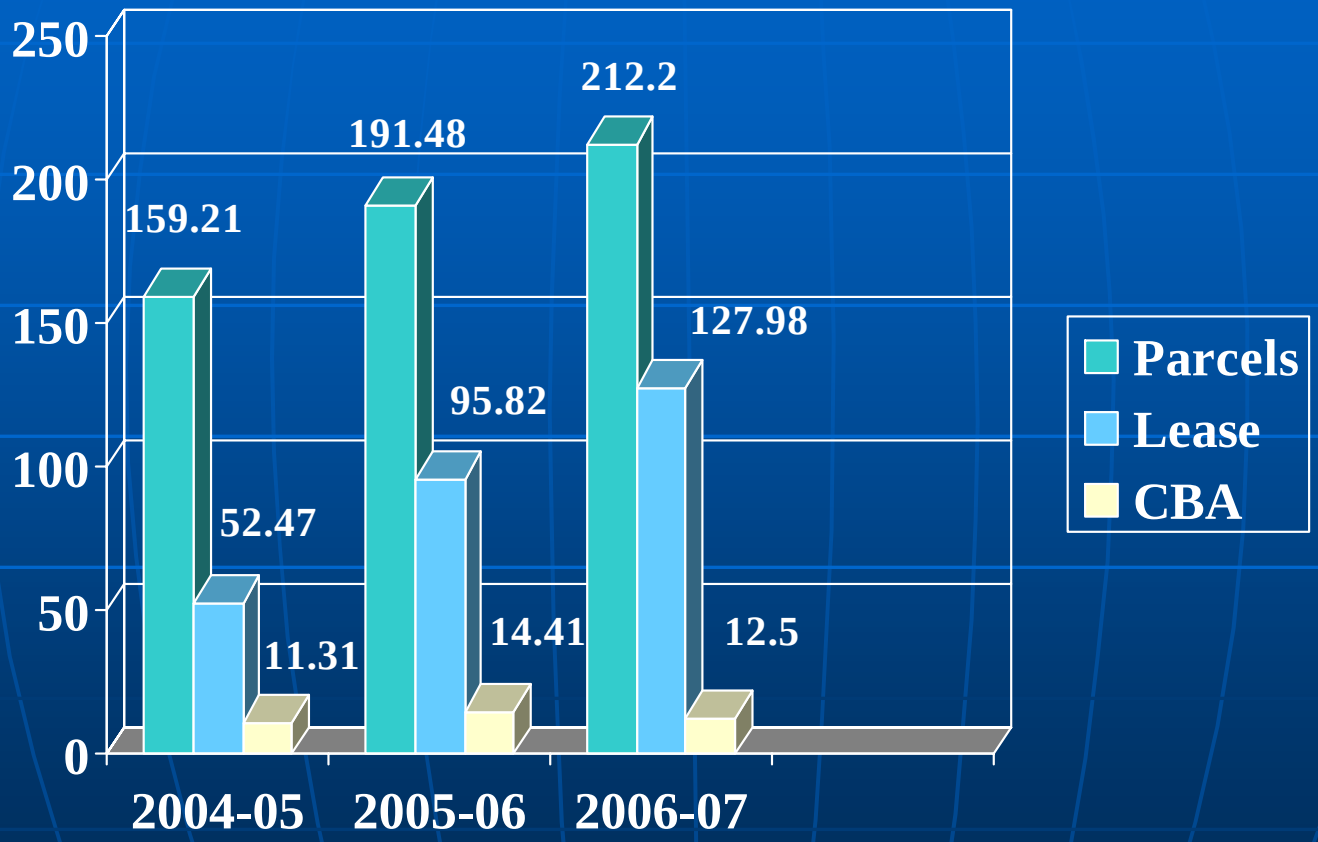
Stations proposed (contd.)

21	Lucknow Junction(NE)	NE
22	Gorakhpur	NE
23	Sivan	NE
24	New Jalpaiguri	NF
25	Guwahati	NF
26	Katihar	NF
27	New Delhi/Nizammudin	NR
28	Varanasi	NR
29	Lucknow	NR
30	Amritsar	NR
31	Jammu Tawi	NR
32	Jaipur	NWR
33	Ajmer	NWR
34	Jodhpur	NWR
35	Secunderabad	SCR
36	Warrangal	SCR
37	Vijaywada	SCR
38	Raipur	SECR
39	Bilaspur	SECR
40	Durg	SECR

Stations proposed (contd.)

41	Ranchi	SER
42	Tata	SER
43	Kharagpur	SER
44	Madras	SR
45	Erode	SR
46	Ernakulum	SR
47	Trivendram	SR
48	Vasco-da-Gama	SWR
49	Bangalore Cantt	SWR
50	Mysore	SWR
51	Kota	WCR
52	Bhopal	WCR
53	Jabalpur	WCR
54	Ahmedabad Jn	WR
55	Baroda	WR
56	Surat	WR
57	Indore	WR

GROWTH OF PACKAGES AT DELHI DIVISION



Packages in Lacs

		Total Cost (RFID)	Total Cost (Barcode)
No. Of Barcode/RFID Printer Required at Station	**2**	2,00,000*	120000**
No. Of Tags to be generated per day	**5,000**	2,50,000	10,000
Antennas to be installed for detection	**2**	400000 (200000*2)	0
Memory Scanners	**10**	10,00,000***	4,00,000 (40,000*10)
Scanners	**5**	100000****	25,000 (5,000*5)
Total Cost per Station		**19,50,000**	**5,55,000**
***(taking avg. price Of RFID Printer is 100,000)**			
****(taking avg. price of Barcode Printer is 60,000)**			
*****avg. price of Memory RFID Scanner is 1,00,000**			
******avg. price of RFID Scanner is $425 I.e. 20,000 approx.**			