

# IT Applications of NCR



A compilation based on IT presentation given  
by Departments

S N	Developed by Link	Application Name	Departments	Briefs & Functions
1	RBCC <a href="http://irmnp.com/">http://irmnp.com/</a>	Indian Railways Machinery and Plant Portal (IRMnP)	MECHANICAL	Creation of M&P proposals, Submit electronically to headquarters and Board, Track sanction and procurement status, Submit information about Works in Progress and receive funds, Keep the asset register updated
2	RBCC <a href="http://cleanmycoach.com/">http://cleanmycoach.com/</a>	Clean my Coach	MECHANICAL	Passengers can send their requests for on board cleaning staff through portal or SMS, The software named OBSERVE (On Board Services) will forward the request to mobile phone of the cleaner present in the particular train directly, The Railway Administration will also simultaneously receive an intimation of such requests for follow up
3	RBCC <a href="https://ircep.gov.in/PVTSDDG/">https://ircep.gov.in/PVTSDDG/</a>	Indian Railway Private Siding Approval & Monitoring System	ENGINEERING	Firms can apply on line, to apply in the proper manner without any discrepancy, Easy to monitor his siding status on line, Easy to monitor the status of all siding cases, Easy and early to prepare the comparative statement and briefing note
4	RBCC <a href="https://ircep.gov.in/WLPMS">https://ircep.gov.in/WLPMS</a>	Indian Railway Way leave Proposal Monitoring System	ENGINEERING	To apply for way leave facility i.e. track crossing, etc. in the proper manner, Easy and approachable to apply for Way leave permission, i.e. anybody can apply from any place Easy to monitor Way leave cases, Easy to know the status of the case, To know the earnings from Way leave
5	NIC <a href="http://pgportal.gov.in/">http://pgportal.gov.in/</a>	Centralized Public Grievance Redress and Monitoring system (CPGRAMS)	MECHANICAL	Disposal of passenger grievances sent to various levels such as Ministry of Railways, DPG etc. The grievance after being received is redirected to the concerning Railways for redressal.

6	NIC <a href="http://tenders.gov.in/">http://tenders.gov.in/</a>	E-TENDERING	ENGINEERING	<p>E-Tendering is a process of carrying out entire Tendering Cycle Online, including submission of Price Bid. E-tendering facilitates transparency, Efficiency, Economy and faster decision making, the E-tendering process means transformation from a traditional Tendering System to an online process making huge advances in Efficiency, Transparency, Data Storage and Retrieval Systems, E-Procurement was adopted by Indian Railways as a part of overall reform process, Engineering Department, North Central Railway successfully implemented EGP for Track Supply tenders from 2009 onwards and for Track Machines tenders from 2012 onwards. It ensures:- Transparency, Fair play, Quality procurement, air Competition &amp; Equal opportunity to all eligible Contractors/Vendors, Document Secrecy, No bidding after due date and time. Bidders are not permitted to submit electronic bids after stipulated date and time of tender opening, Bids cannot be opened before due date and time, Bids can only be opened by Authorized Officials, Use of Digital Signatures for E-Transactions.</p> <p>FACILITIES TO CONTRACTORS :-Free online login registration ID for online participation in E-Tenders, Free E-Tender search and Download of Tender Documents and Tender Corrigendum, Direct participation and online submission of electronic offers in an E-Tender, Direct submission of offers in standard commercial rate page in fully secured manner, Direct viewing of tender opening and view of tender tabulation from website after tender opening, Direct access to view purchase order from website through Vender Home Page, Direct receipt of intimations and post contract amendments</p>
7	CRIS <a href="http://10.50.19.8/5/MCDO/">http://10.50.19.8/5/MCDO/</a>	Board MCDO portal	MECHANICAL	MCDO data for Coaching, Freight, Workshop is sent electronically
8	CRIS <a href="https://ircep.gov.in/IRPSM/">https://ircep.gov.in/IRPSM/</a>	Indian Railways Projects Sanction and Management System (IRPSM)	MECHANICAL	Creation of proposals for Works Program under PWP, Law Book and DRM Lump-sum, Electronically submission to HQ & Board for sanction, Monthly up-dation of physical Division wise uploading of funds and financial progress of WIP Works under PH-42,
9	CRIS <a href="http://emmm.indiamrail.gov.in/wps/portal">http://emmm.indiamrail.gov.in/wps/portal</a>	Integrated Coaching Management System	MECHANICAL	Monitoring of special drives launched ,Uploading of updated pit charts for each depot, Uploading of details of coaches condemned by Railway, Updating of depot wise M&P details

10	CRIS <a href="http://www.coms.indianrailways.gov.in/">http://www.coms.indianrailways.gov.in/</a>	Complaints Management System (COMS)	MECHANICAL	Tracking and disposal of passenger complaints
11	CRIS <a href="http://ircms.railnet.gov.in/IRCMS/">http://ircms.railnet.gov.in/IRCMS/</a>	Indian Railways Cadre Management System (IRCMS)	MECHANICAL	The work profiles of IRSME officers has been created on the portal, The work profiles of IRSME officers has been created on the portal Various information such as Bio data, posting history, current posting, promotion history etc. has been uploaded on the portal and is updated from time to time
12	CRIS <a href="https://aims.indianrailways.gov.in">https://aims.indianrailways.gov.in</a>	Integrated Payroll and Accounting system IPAS	PERSONNEL ACCOUNTS	IPAS is a system for automate payroll processing and financial work, The purpose of this software is to capture employee data to process payroll, maintain loan and leave record, generation of various types of bills for employee and contractor, generation and printing of cheques and maintain earning and expenditure expenses for railways. Modules:- Payroll ( Salary, Allowances & Recoveries , Annual Increments , Income Tax ,Bonus, Cash Compensation, DA Arrear, Supplementary Bills, Travelling Allowance. ), Employee Profile, Leave, Settlement, Leave salary( GIS, DCRG ), Quarters, Electricity, Cadre, Workshop Incentive, Loan & Advances , Accounts (Internal check, Books , PF, NPS, Pension, Cash & Pay , Suspense, Budget )
13	CRIS <a href="http://www.nivaran.railnet.gov.in">http://www.nivaran.railnet.gov.in</a>	NIVARAN	PERSONNEL	The creation of NIVARAN at the behest of Hon'ble Minister for Railways, as the online platform to address grievances of serving and retired railway employees has to be seen against this backdrop, NIVARAN shall take forward Indian Railways' endeavor in redressing staff grievances, arising because of gap between expectations of employees and speed of delivery by a manual system. NIVARAN aims to bring all authorities concerned with addressing staff matters on a common platform so that avoidable delays are cut down substantially. Some 200 offices and over 3000 officers from Junior scale to Higher Administrative grade levels are proposed to be configured to NIVARAN, making it one of most comprehensive and transparent mechanisms of its kind, The Application is the result of collaborative efforts of Establishment/ERP and Computerization and Information System directorates of Ministry of Railways, CRIS and software developer HP.

14	CRIS <a href="http://www.ireps.gov.in">www.ireps.gov.in</a>	e-Procurement System (EPS)	STORE, ENGINEERING, MEDICAL	It enable for contracts of Procurement (Supply of Material) , services and now Works also, This application provides a common platform using secured Web site where the buyer and the sellers can participate in the procurement process in fair and transparent manner, Activities :-Uploading of NIT & tender documents with digital certificates of railway authorized person, Free access for downloading of tender documents from IREPS by vendors having authorized ID & PW, Pre-designed Tender forms for submission of offers online, Online bid submission digitally signed in encrypted form, Time-locking of electronic tender box, Digital tender opening with Secured digital permission (private key) without presence of vendors, Online generation of Tabulation Statement of electronic bids, Online access to Tabulation Statement to vendors on tender opening. Benefits :-Improved transparency in tendering and Contract finalization, Online participation and information sharing, Online access to Tender Information, Online evaluation of price bids, Remote access to tender opening by vendors, Savings due to reduced procurement cycle time, Savings on preparation and dispatch of tender document & Advertisement costs
15	CRIS <a href="http://10.102.3.3">http://10.102.3.3</a>	Integrated Materials Management System (iMMIS)	STORE	iMMIS is integrated MMIS with IREPS, Web based Single platform for stores activities. Individual MMIS of ZRs are required to be merged and shifted to CRIS through implementation of iMMIS. It Enables:- Item Position of other Railways, Stock position of other Railways , NIT search for other Railways, Submission of managerial reports to various Zonal Railways/Railway Board, Stores Bill passing from IPAS after integration of IPAS and iMMIS, End to end paperless contract management system through iMMIS based on ICT
16	CRIS <a href="http://www.ircep.gov.in/IRPSM">www.ircep.gov.in/IRPSM</a>	Indian Railways Projects Sanctions & Management (IRPSM)	ENGINEERING	It deals with —On-line Creation of ‘New Proposals’ with Justification, Abstract Estimate and Sketch Plan,— Capture of Comments from Each Concerning Official till sanction, Generating, forwarding & printing PWP Books for volumes-I, II, III & LAW Book and DLSW, Provision of “Out of Turn” Works Through “Supplementary Demands for Grants.
17	CRIS <a href="http://www.ircep.gov.in/IRPSM">www.ircep.gov.in/IRPSM</a>	Passenger Amenities Management System (PAMS)	ENGINEERING	Earlier the Passenger Amenities booklets were prepared once in a year by Divisions, signed by all concerned branch officers and circulated to all concerned in Division, HQ & Railway Board in hard & soft copies, which was a big time & cost consuming job. Due to introduction of WBPAMS there is lot of saving in time and cost as well as data can be corrected/ updated at any time during the year, In the nutshell it is a complete informative package for a station

18	CRIS <a href="https://ircep.gov.in/TMS">https://ircep.gov.in/TMS</a>	Track Management System(TMS)	ENGINEERING	The management of track maintenance involves handling of huge volumes of data statistics as well as dynamic analysis of various measurements and defects. It involves planning as well as deployment of large resources, Data entry at source electronically, Data analysis at different levels of hierarchy, Online availability of accurate information to all stakeholders
19	CRIS <a href="http://www.ireps.gov.in/RCApproval">www.ireps.gov.in/RCApproval</a>	RORACS Application	ENGINEERING	Ministry of Railway and Ministry of Road Transport & Highways signed an MOU to facilitate speedy construction, As per directives from Hon'ble Prime Minister of India, Railway developed a web enabled online system to have transparency in monitoring of Rail-Road Crossing GAD approvals across the country
20	CRIS <a href="http://ems.indianrail.gov.in/SLAM/">http://ems.indianrail.gov.in/SLAM/</a>	Software for Locomotive Asset Management SLAM	ELECTRICAL	AIM OF PROJECT : -Establish software system for effective rolling stock, maintenance management, Sharing the desired information across the sections, Computerize the maintenance and support, processes for reliability improvement, Transfer of information to be quick accessible and effective, Inventory & Store Managements. BENEFITS OF SLAM:-Effective job scheduling, forecasting & monitoring, Improves-Visibility of work progress (Executive Monitoring- Dash Boards), Real time Information (Shop Floor Monitoring),Information Traceability (Target Monitoring & Failure Analysis),Process Adherence (Quality),Accurate Inventory (Material Management ),Speed of Communication & Alerts, Warranty Performance monitoring, Document management & messaging
21	CRIS <a href="http://ems.indianrail.gov.in/">http://ems.indianrail.gov.in/</a>	Crew Management system CMS	ELECTRICAL	OBJECTIVES:-Real Time Global Monitoring of Crew, Booking of Crew Only Who Fulfill all Requisite Criteria Train Operation (LR, Training, Medical, Competency, BA),Transparency in Booking, Calculation of Allowances, Report Generation for Managerial Applications, Paperless lobby. UTILITY:-Maintain inventory of all Crew including position of home crew at out stations, Scheduling and assignment of Crew to trains, Monitoring road learning, training, Medical etc, Scheduling periodic rest, Modernization of Call process ,Crew productivity(hrs worked, km earned), HOER, To link all activity points ,A tool for saving OT, Km allowance, Connect lobby, CCC, Div office , control office , HQ, Booking of Crew as per link , Allowances calculation, Circulars availability, Report generation

22	CRIS	Supervisory control and data acquisition SCADA	ELECTRICAL	Enables TPC at RCC, to monitor & control traction power supply at remotely located TSS & SWS, reliably and safely, acquisition, storage, analysis & displaying of data in prescribed form, Automatic localization of OHE faults, Granting of Power Block, Feed Extension in adjoining zone, Off-load Tap-changing of Transformer, PF Improvement. It comprises of (REMOTE CONTROL CENTRE (RCC), REMOTE TERMINAL UNIT (RTU), COMMUNICATION MEDIUM) RTU is common interface between Field devices and RCC, RTU is Microprocessor based logic system, Accepts digital and analog input signals from field, Receives control command from RCC, Replies information asked by RCC.
23	CRIS <a href="http://www.safety.indianrail.gov.in/">http://www.safety.indianrail.gov.in/</a>	Safety Information Management System (SIMS)	SAFETY	It manages, Process Information related to any train Accidents in Indian Railway . Modules :- Accident Registration Module :For reporting of Train Accidents, the details of Train Accident can be updated/modified later, User can view the details of accidents, Keep track of the departmental/ CRS Inquiries and D&AR Inquiries, Details regarding reporting of Train Accidents, MIS Module:- Reports generated on the basis of accident reported, Transform Data into useful information for better decision making. Features:- Add New Accident, Update/ Modify Accident, Upload file for Accident, View Accident Details, ADD Crew Details, Update/ Modify Crew Details, View Accident in Last 24 Hours, Public information, View Public information. Reports :-Static Reports, Periodic Reports, Accident Type Reports, Consequential Accident Inquiry Reports, SPAD Accident Inquiry Reports, Dynamic Periodic Reports, Exception Reports, CRS Recommendations, Pending OM Letter, CRS Report Pending beyond 180 days, Periodic Inquiry Reports, Periodic D&AR Reports, Dynamic Query Report INQUIRY:-Departmental Inquiry, CRS Inquiry, D&AR Initiation, D&AR Updation, View D&AR Inquiry Report, OM modules of CRS Inquiry.



24	<p style="text-align: center;">CRIS  <a href="https://rpf.indianrailways.gov.in/SMIS">https://rpf.indianrailways.gov.in/SMIS</a></p>	<p style="text-align: center;">RPF Security Management System (RSMS)</p>	<p style="text-align: center;">RPF</p> <p>At present Zonal Security Control Room, Divisional Security Control Room of ALD, JHS &amp; AGC and SIB/HQ/NCR are connected to this networking system in North Central Railway, Railway Board Control Room, Zonal and Divisional Control Rooms and RPF Posts at Central and Western Railway are connected through Pilot Project All India Roll out phase of RPF Security Management System will connect all RPF Posts /Outposts/Crime Cell/Prosecution Cell/Training Centers of each zonal railway, There are 2025 Roll out locations identified in 2nd phase for implementation of RSMS, Northern Railway is a Executing Zone for All Indian Roll out Project of RSMS, After completion of all India roll out phase it will be connected to RPF Posts/Outposts/ Crime Cell/Prosecution Cell/ Training Center, It will lead to a situation where data is generated, manipulated, maintained and shared on line. It will also enable paperless working in RPF. MODULES:- Control Room Messaging Module (CRMM), Special Intelligence Branch Module (SIBM), Help Desk CRMM features: -Compose, Inbox, Outbox , Multiple locations messaging, It also has useful additional features of sending attachments like:-Photographs, Documents, Chat for Emergency message, Facility to populate crime records &amp; Registers directly from message received save drafts and archive messages, An important feature is the ability to use Hindi in CRM module. BENEFITS:- Time saving, Messages received from the DSCR online are edited in the system which are in turn forwarded to Zonal Hqrs. Zonal Hqrs after necessary changes forwards the same to Railway Board, There has been immense saving in manpower &amp; paper work, On date ZSCR/NCR and SIB/HQ/NCR is receiving and sending all messages and reports to and from Railway Board as well as other zonal railways through RSMS, This module has become the mainstay for exchanging letters and documents between Divisions, Zones &amp; Railway Board. SIBM:- Receiving and sending confidential/ top secret messages/reports to zonal railways and Railway Board, Forecast, Record incidents relevant to SIB like activities of Unions, Terrorist/ Extremist activities etc, Automatically generating alerts based on forecast and other activities, Giving NOC clearance by SIB is also being done, Generation of mandatory reports like Daily Situation Information, Fortnightly Monthly Appreciation reports are being generated on this module. Working on following module will be started at RPF Post/Outpost/Crime Cell/Prosecution Cell &amp; Training Center over NCR after completion of All India Roll Out 2nd Phase :- crime records &amp; register (CRR) module, miscellaneous crime (MC) module, monthly crime review (MCR) module , help desk (HD), master form (global master), letter box (workflow engine) CRR module is concerned with recording and registering of Booked Consignment, Railways Act and non-Railway Act Crime cases in their concerned register, All standard registers of crime in RPF can be maintained in CRR .</p>
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25	<p style="text-align: center;">CRIS  <a href="http://www.fois.indianrail.gov.in">www.fois.indianrail.gov.in</a></p>	<p style="text-align: center;">Freight Operations Information System (FOIS)</p>	<p style="text-align: center;">OPERATING</p> <p>Based on the MIS reports, managers make resource allocation decisions in a dynamic manner so as to achieve optimum utilization of assets like wagons, locomotives, crew and available paths on the network, Real time information supports better and faster decision making resulting in enhanced mobility and customer satisfaction, More than 500 MIS reports are available for decision making.</p> <p><b>MODULE:-Rake Management Systems (RMS) :-</b> An application to track and monitor the movement of rakes and locomotives, Running particulars – Arrival/Departure at stations, Rake supply date and time, Rake arrival at destination, Management of terminals, such as terminals detention , and pipe line monitoring etc, Interchange Forecasting, Wagon holding, Loco utilization, HOR etc, Rolling Stock Availability.</p> <p><b>Terminal Management System (TMS) :-</b> Complete management module for freight trains handling at terminals and revenue collection as well, Improved customer satisfaction by tracking and tracing by the users on Indian Railways by allotting FNR number (Freight Name Record),System calculates freight automatically and generates the R.R. (Railway Receipt) via booked route through RBS ( Rates Branch System),Electronic collection of freight, MIS reports for terminals, financial statements for bringing about systematic improvement.</p> <p><b>Registration of Demand Electronically (e-RD) :-</b> After registering demand through e-RD, ODR and Priority will automatically reflected into FOIS/TMS, Rake allotment will be done accordingly, Payment of freight can be made through DD/E-payment/Net Banking, Costumers need not approach freight terminal for registering demands as well as for supply of rakes and freight payment.</p> <p><b>Terminal Pipeline Management System (TPMS):-</b> Ascertain terminal congestion on the basis of avg. time taken from supply to arrival at destination (Avg. of 3 months) and terminal handling capacity, Automatically generates status of terminals–marginal, medium and severe congestion at 08:00 hrs daily. Stacking permission will be granted, when no congestion at terminal and if stacking allowed then loading will be permitted irrespective of terminal congestion, Exclusive restrictions should be considered over TPMS congestion status before supply of rakes, Efficient tool in decision making and optimum utilization of wagons by way of better pipe-line management.</p> <p><b>Electronic allotment for congested terminals(e-ACT) :-</b> Automatic allotment of rakes as per rake availability at terminal, considering ODR and priority of indent, reports generated at 09:00 hrs and 16:00 hrs, Provision of feeding restrictions and other information such as stacking and route restrictions etc. Hence system automatically permits rake supply for loading, System calculates congestion level based on average waiting time(AWT) of all rakes in the pipe-line on the basis of unloading terminal performance (Avg.of 3 months)</p>
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26	CRIS	Control Office Application (COA)	OPERATING	<p>All information for train operations being computer generated, Provide better planning and forecasting tools, Movements are captured in real time, Movements of trains planned and controlled through the computer aided interface, COA is linked with FOIS, ICMS and NTES, Train Ordering, Manage Train Movement (Abnormal Working, Stabling, Banker Movement), Report Unusual Occurrences, Management of Maintenance Blocks, Caution Orders, Advance Plotting of Graph, Details of crew and locomotive, Forecast and extrapolate the running of trains which allows the controller to plan Letter, Speeds of trains.</p> <p>ADVANTAGES:- Fully Automated work environment, 24*7 system for train running operation, As an aid to the controller in terms of efficiency, precision &amp; time management, Leverage to Controller's Experience in decision making through manual forecast, Real time information on train operation without human dependence, To serve as a backbone system for sharing of data between allied systems such as FOIS, ICMS, NTES etc, Ease of working with reduced shift handover time, Automated Chart plotting in all divisional control offices of Indian Railways, Forecasting tool for Advanced planning, MIS for management to take better decisions, Online Real-time Train running information for customers satisfaction through NTES, Shadow board available on a click for better planning Suggestion: System should be based on data loggers, so that time of section controllers is saved. As a lot of time is wasted in selecting the trains from the grid and filling the passing time</p>
27	CRIS <a href="http://icms.indianrail.gov.in/reports">http://icms.indianrail.gov.in/reports</a>	Integrated Coaching Management System (ICMS)	OPERATING	<p>MODULES:- Coaching Operation Information System (COIS), Punctuality Analysis and Monitoring (PAM), Coach Maintenance Management (CMM). COIS:- Yard stock entry, Yard Position, Rake formation, Sick line Operation, Sick line Placement, Sick Marking, Modify consist, Shop Placement, Shop Marking, Rake Examination, Departure Reporting, Arrival Reporting, En- route Attachments/Detachments PAM:- Originating terminating, interchange timings, Detention Reports, Cause wise logging and sub-heads, Fixing Responsibility. CMM:- Support module of PAM and COIS, To maintain database pertaining to the information of Rake Links, List of stations, platforms and washing lines, Yard Infrastructure, Coach Master, Train Schedules etc</p>
28	RDSO <a href="http://10.100.2.19/">http://10.100.2.19/</a>	RDSO Portal	MECHANICAL	<p>CTRB Failure Analysis Report, Specifications, vendor directory, Technical instructions, Manuals etc, Speed certificates of rolling stocks for CRS sanctions</p>

29	LOCAL <a href="http://10.102.0.199/login.php">http://10.102.0.199/login.php</a>	Reference Disposal and Monitoring System (RDMS)	MECHANICAL	Tracking important matters received from Board or MP/MLA for their speedy disposal
30	LOCAL <a href="http://comptran.railnet.gov.in/">http://comptran.railnet.gov.in/</a>	COMPTRAN (Common Portal For Transfers)	PERSONNEL	A Common Platform on which any railway employee can register his/her request for transfer to any railway unit, It would also facilitate Railway Board office to directly monitor such cases, a number of which become VIP references to Hon'ble Minister for Railways
31	LOCAL <a href="http://10.102.3.3">http://10.102.3.3</a>	Material Management Information System (MMIS)	STORE	Materials Management activities including procurement activities in COS Office, receipt, account & issue of materials in depots, sales & auction activities, Divisional level stores activities and bill payments and other finance related activities for stock items is performed through MMIS. MMIS modules - Purchase Module, Depot Module, Finance module, Sales & Auction Module.
32	VINDEC LAN	LIMS- Laboratory Information Management System at Central Hospital, NCR, Allahabad	MEDICAL	Sample Collection :- Software generates Bar Code ID No. for samples, 4 to 5 Sample Collection points working simultaneously, Queue and Waiting time reduced. Reports:- The Results are checked and transmitted to software without any transcriptional errors, The reports are ready after checking and validation reports are printed when patient asks for immediately, Even dispatch of reports by SMS & e-mail possible, Bi-directional linking of equipments in LIMS. Password protected access and responsibilities/ operation rights defined in software for all Technical staff. Powers of staff are defined, Log of all activities is created for, Registration of Patients for Sample, Processing of Samples, Reporting of Results , editing etc
33	WESTERN Rly <a href="http://arpan.railnet.gov.in">http://arpan.railnet.gov.in</a>	ARPAN	PERSONNEL	ARPAN is an online virtual communication system offering exhaustive information and a platform for airing suggestions and grievances to the pensioners, information regarding pension account, the Dearness Allowance rates, rules and regulations governing the payment of pension and several other pension associated matters are very easy

34	LOCAL LOCALLY HOST	Computer Based Training CBT	ELECTRICAL	To have a centralized Computer based training system that hold content as well as trainee records, To use modern state of the art technology to deliver training, To make training accessible for loco pilots inside and outside of the training centre, To have structured, planned and comprehensive training for learning at the trainee's pace, To have a uniform standardized assessment system, Modules are Designed for :- Training of Loco- Pilots and Training of Maintenance Staff. Modules:- Learning Management System (LMS) including Learning Content Management System (LCMS) and Assessment System (AS) Software, LMS :- Self registration new user / update profile, Create New course , Add / Remove course, Course assignment based customized for trainee / course, Reports and continuous tracking , Reminder for refresher training , Automated monitoring of student activity, Automated exam create based on criteria, Reports and certificate Features:- The CBT training program contents are broken down into five main didactic types:- Free Exploration, Theoretical and Basic Technical Knowledge, Operational Procedures, Situation-based Exercises.
35	RAIL COACH FACTORY KAPURTHALA LOCALLY HOST	Computerized Pass Printing	ELECTRICAL	Electric Loco Shed/Kanpur customized (RCF developed Generic License Free) computerized pass printing system for error free quick pass service to Electric Loco Shed Staff", ELS/CNB is issuing pass within 2 hrs. of receiving application from staff under it's "Staff Charter Objective", This software works on Visual Basic & Data Base SQL Server, The software has features of route checking and ensuring correct validity w.r.t. pass dues, pass route etc. In case of invalid route/pass dues, system doesn't allow the issue of pass and prevents possible human error
36	COFMOW <a href="http://www.cofmow.gov.in/">http://www.cofmow.gov.in/</a>	Central Organization for Modernization of Workshop ( COFMOW)	MECHANICAL	Specification of M&Ps, Downloading of COFMOW compendium for use of rates of M&P for proposals, Procurement status of M&Ps, Up-dation of receipt, installation & commissioning of M&Ps

37	Power grid Corporation <a href="http://www.nrldc.org">www.nrldc.org</a>	WEB BASED SCHEDULING OF TRACTION POWER	ELECTRICAL	<p>1) DER GSS- From NTPC Dadri ,2) PHD GSS- From NTPC Auraiya</p> <p>Scheduling of Power done by Railways through NRLDC site is done in one day advance, Share of Railway in NTPC Auraiya-4.53% (of 660 MW ) &amp; DADRI – 8.43% (of 840 MW), ie. Plant Capacity, Daily Declared Capability of Generating Plant is Obtained, Power Entitled to Railways from NTPC Dadri and Auraiya from Gas fired, Liquid fired and RF fired. It is shown for every 15 minutes interval, Monitoring REAL TIME Power allotted to Railways: If needs arises we can reschedule power requirement 90 minutes in advance by Web based Scheduling, Scheduling is done for M/s ADANI POWER LTD also (PPA for Medium Term Open Access signed on 15th Oct 2015),DEMAND IN URS POWER (if power availability from NTPC &amp; APL is less): In the case of less availability of power given by NTPC to Railway, URS (Unrequisitioned Surplus) power of other entities is taken as per requirement, This data is helpful while scheduling for Analysis of Power</p>
38	MEDHA <a href="http://www.locomon.in">www.locomon.in</a>	REMOTE MONITORING OF THREE PHASE WAG9 LOCOMOTIVES	ELECTRICAL	<p>REMOTE MONITORING OF THREE PHASE WAG9 LOCOMOTIVES:- LRMS interfaces with Locomotive Vehicle Control Unit to obtain Locomotive's health, fault diagnostics, This data is transmitted to the remote server by using the commercially available GSM/CDMA Networks &amp; location is transmitted using GPS receiver, LTMS is a centralized server with OEM connected to the Internet via a Static IP address. It Consist OF Locomotive Remote Monitoring System (LRMS) , Loconet Train Management System (LTMS) , LRMS interfaces with Locomotive Vehicle Control Unit to obtain Locomotive's health, fault diagnostics, This data is transmitted to the remote server by using the commercially available GSM/CDMA Networks &amp; location is transmitted using GPS receiver, LTMS is a centralized server with OEM connected to the Internet via a Static IP address</p>
39	CRIS <a href="http://roams.cris.org.in/roams/">http://roams.cris.org.in/roams/</a>	Online BPC(Break Power Certificate) of Freight rakes using FMM (Freight maintenance Module ) yard Module	MECHANICAL	<p>BPC generated online with unique ID no. which can be checked by any authorized Railway personal for its validity etc. In case of lost BPC, duplicate BPC without any alteration to wagon nos. validity can be generated from anywhere by an authorized official, No manipulation of wagon nos. and validity etc is possible thus rake integrity and validity are ensured, Wagons examined are taken into wagon master. During subsequent examination at any location equipped with online system no need for manual wagon nos. recordings, Facility for system generated report on wagon due from POH and ROH, Wagon marked sick can be traced back through this system for period of sickness and present operation of that particular wagon, With PAN IR implementation of this module history, period of maintenance, reason of sick marking, utilization etc of individual wagon can be traced, Better material planning as per sick marking pattern of wagons.</p>

40	Hollywood Multimedia Ltd., New Delhi <a href="http://10.58.0.2:8080/Rail">http://10.58.0.2:8080/Rail</a>	Indian Railway Integrated Vigilance Information System .	VIGILANCE	Sending all the periodical reports to Board. Taking position of cases for all purpose viz. Review meeting with Board, monthly meeting of Vigilance, Inter Railway Vigilance Audit etc. Vigilance Clearance for management decision.
41	CRIS <a href="https://ircep.gov.in/PVTSDG/">https://ircep.gov.in/PVTSDG/</a>	Private Sidings Approval & Monitoring System (PSAMS)	Civil Engineering	It's a On-line Monitoring System for Railway Siding Projects
42	Ministry of Law & Justice, Deptt of Legal Affairs <a href="http://limbs.gov.in/">http://limbs.gov.in/</a>	Legal Information Management & Briefing System (LIMBS)	LAW Section	Detail of all Court cases pending in various courts over NCR.