

# INFORMATION TECHNOLOGY ORGANISATION

*“Software is like entropy: It is difficult to grasp, weighs nothing, and obeys the Second Law of Thermodynamics; i.e., it always increases.” — Norman Augustine*

Under the overall administrative authority of PFA and technical control of FA&CAO(W&S) –cum-Chief Manager (IT), IT set up of this Railway has been functioning from the south block of Rail Sadan. Day to day work is being directly overseen by Sr. Systems Manager (IT), assisted by Jr. Systems Manager (IT), the support staff and supervisors in technical, ministerial.

ECoR IT organization has adopted the Data Centre concept approach bypassing the conventional EDP Centres. It has an inherent advantage of on-line data processing. Web based IPAS applications hosted on centralized servers is considered more advantageous. As Railway Board decided to roll out IPAS on PAN India basis, ECoR also migrated to IPAS(AIMS) applications like all other Railway zones. The IPAS(AIMS) is conglomerate of various modules and sub modules developed and customized to the needs of Railways.

In an all India panorama, selected Rlys have been nominated by Rly Bd to act as the nodal Rlys who are to act as the interface between the users and the developer, i.e., CRIS. So, this Rly has the privilege to act as the nodal Rly for Cash and Pay Module and Stores A/c Module. This Rly has fulfilled its obligations in this regard and both the modules have now gone live.

Being the pioneer in promoting IT culture and bringing all the divisional units under the banner of digital family, IT Deptt has made significant strides in the following areas.

The following web-enabled e-applications and mention worthy either developed in house or outsourcing basis are running successfully. These e- applications are

- **Officers Inspection Monitoring System (OIMS):** has been designed for monitoring the inspections done by the Officers with respect to targets. The program enables the higher management in identifying frequency of failures at the same place, common short falls at several locations that needs attention etc. The detail of inspections done is required to be entered by the officers concerned.
- **BEST-(Blank Paper Ticket and Excess Fare Ticket System for Traffic A/s)-**The earlier systems developed on outsource basis has been revamped with a new look system. The (BEST) software developed in house for Traffic Accounts deploys Oracle 10g at the database end and HTML/CSS/JAVA at the front end. BPT issued to SMs and EFT to TTEs check the correctness of the Railway fares/fines collected from the travelers. The revenue thus generated above is credited to Rly A/cs.
- **BTS (Bill Tracking system):** To bring in more transparency and to enhance the image of working culture in ECoR, an innovative idea in the form of BTS has been developed by this Railway. BTS is related to the payments related to works contract. The contractor makes the request for measurement and release of payment. The system captures all the events from measurement of works till check preparation. The SE(Works), AEN, OS(Bills), SSO(A)/WORKS Budget have to update details concurrently. Thereafter, CO6, CO7 & Check details are to be updated by the dealing assistants of the Associate Accounts.
- **Drivers Unsatisfactory Management System (DRUMS):** The system shall facilitate the Crew Controllers to lodge Drivers Unsatisfactory reports through SMS. System generated SMSs will be sent to the respective SSE/SEs for resolving the issues. The System will escalate the problems to the next higher up in a scheduled manner if the problem not resolved within the specific time. The closing of the complaints are to be done by the departmental controllers. This will facilitate the management to monitor and take up the administrative decisions.

- **ORH (Officers Rest House) allotment System-** This provides on-line applications for allotment of Officers Rest Houses available at BBS, NDLS, Howrah and Puri. An officer can see the vacancy position by clicking on the VACANCY POSITION TAB. On allotment of ORH, the concerned officer will be informed through SMS, He also can view the allotment status by clicking on the respective tab after putting his application id.
- **GMDB (General Manager Dash Board)-** This web application has been designed for effective monitoring and controlling the progress of various tasks assigned by GM to PHODs. It has submenus like MR Items, GM Items, Other Items and Wednesday Meeting Items. In the report segment detailed information like Task Description, Target Date, Action Performed and Status are available.
- **Railway Internship Portal for Students-** Online portal has been developed to facilitate students desirous of Summer Internship in Railways. This portal helps the students to apply online and to upload required documents. Based on the number of applicants for each subject, the concerned authorities have the privilege deciding timings and venue. This has saved a lot of man hours as the receipt of manual applications, its verification and transferring the same to the concerned departments is a huge task.
- **E-receipts and Dispatch Software (Accounts)-** The a-applications captures the details of letters /documents received or dispatched with system generated number. This has done away with the manual entry of details in DAK section. Further, the receipt and dispatch dates can be retrieved easily.
- **FPMS (Financial Proposal Monitoring System)-**This e-applications keeps track of all financial proposals received, processed, vetted or returned. This software is implemented in all divisions and headquarters. Ten days managerial report greatly serves the management to watch the pending proposal if any department wise, category wise also. The efficiency of the dealing official can be ascertained.
- **SIAS-** Signal Incidences and Analysis System (SIAS) developed in house with Oracle10 g XE at the database level and HTML/CSS/JAVA at the front end, provides the users interface i.e., the forms, where users have to input the relevant data. Upon processing of the data, various managerial reports are generated
- **CHITHI (Computerized Handling of Internal Telecommunications via Internet)-** The software developed in house deploys Oracle 10g at the data base end and HTML/CSS/JAVA at the front end besides using Tomact server. This enables uploading and viewing of various circulars and transfer orders relating to Gaz and Non-Gaz staff issued by this Railway. This also shows events like Republic Day Celebration, Independence Day Observation organized by this Railway.
- **RPF Grievances Redressal System-**The individual users belonging to RPF cadre, after logging into the system can put his grievances. The grievances thus entered are monitored by the higher ups. The party is apprised about the outcome of his grievances
- **e-APARS-**In Annual Performances and Appraisal Reports (e-APARS), employees can view their annual working performances which helps them to be more concerned about their working and refocus on the fields which have hitherto missed their attentions.

New look website of the Railway i.e., [www.eastcoastrail.indianrailways.gov.in](http://www.eastcoastrail.indianrailways.gov.in) is being regularly up-dated with current events and features.

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