

***Free Software Initiative
IN KSEB***



KSEB

- Constituted in 1957
- Asset and functions vested with Govt on 25.9.08 as per Ele.Act-03
- Installed capacity - 2657 MW
- EHT Sub Stations - 276
- No of Consumers- 91.04 lakhs
- Peak load demand - 2750 MW
- Daily consumption - 41 MU
- Annual turnover. - 4145 Crores.

Computerisation in KSEB.

- Generation
- Transmission
- Distribution

Distribution – Focus area.

- 641 Ele.Sections.
- More than 9 million consumers
- Consumer registration, Billing, Collection & complaint monitoring & rectification .

LT Billing

Computerisation

- Began during 2000.
- 185 Sections computerised upto 2006.
- IDS & Jyothy software
- Widespread complaints.

Jyothi Billing Software

Intervention of the Government

- to conduct a review of ongoing process of Computerisation of LT Billing And Allied activities.
- Stop rolling out of the Jyothi software until the review is over.

Review Committee

- Board constituted a review committee.
- The committee collected feed back from end users of the Jyothi software
- Feed back received from 139 sections out of 177 sections.
- Sought opinion from Experts in the Field of ICT.

Review Committee

External Experts.

- Sri.Achuthsankar.S.Nair,Head,Bio-informatics Dpt,KU & former Director C-DIT
- Sri. Amarnath Raja ,Director SPACE & Director,KSITM
- Sri. Sasi.P.M,Additional Director C-DAC
- Sri.Joseph.c.mathew, IT Advisor, Govt.of.Kerala.
- Sri.Arun.A,Secretary, Free software foundation of India.
- Smt.Latha .B.kaimal,Joint Director C- DAC.

- KSEB towards free software

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Observations

- Computerisation is going on in Proprietary software platform
- No control over OS and RDBMS.

Observations

- When more Sections are to be computerised, huge amount has to be paid as software license fee
- Application software was also developed in proprietary software platform.

Observations

- Development of application software lacks domain knowledge
- Not enough support from application provider

Recommendations.

- Develop a platform independent application for computerisation in KSEB.
- Select GNU/LINUX as the operating system and an RDBMS package based on free software.
- If enough IT skilled employees are available, go for inhouse development.

Why Free Software.?

- Free Software give full freedom and control over the software system.
- Ensures freedom in using and modifying the software solutions.
- Offers best platform independent

Oruma - Technology selected

- Operating System - DEBIAN LINUX.
- Client OS - Ubuntu Linux.
- RDBMS - Postgre SQL
- Programming Language - PHP

Oruma - Development Strategy.

- In house development
- Platform Independent
- Web based application.

Challenges Faced

- No other organization in Gov.Sector.
- No Service support was available.
- Training to employees was a challenge.

Oruma.

Capacity building - training.

- Training to selected employees in New Technology

Development Activities

- Data Entry software
- New LT Billing software

Data Entry Software

Migration of Data was a challenge.

- Existing data was stored in SQL Server 2000 Database
- Migrated the Data to Postgres using migration code
- Correction, Updation and fresh data entry was done using new Data Entry Software.

ORUMA Inauguration

- Name selected through employee participation
- Statewide launching on 10.3.2008 at TVM by Hon'ble CM
- Seminar on e- Governance initiative in Free and Open Source Technology.



ORUMA

a huge success

IT Road Map.

- AMR, Billing & web enabled services for HT/EHT consumers by July.09.
- Supply Chain Management System by Sep.09
- HRM Solution (Pay roll,PF,Pension etc) by sep.09.
- Accounting of ARU & Corporate office by Sep.09

IT Road Map

- Networking and setting up of Data centre
- Pilot project (one district) - Jun-09
- Southern region - Dec-09
- Web enabled services - Dec-09
- Customer care centres - Dec-09
- Networking Entire State - Dec-10
- Introducing ERP solution.

Open Source Solutions - Emerging Trend in IT.

- National IT Policy
- State IT Policy
- Lead role by KSEB
- Cost effective tool for IT enabling Power Utilities.

THANK YOU