



**Madhya Pradesh Paschim Kshetra Vidyut  
Vitaran Company Ltd., Indore**

**Madhya Pradesh Poorv Kshetra Vidyut  
Vitaran Company Ltd., Jabalpur**

**Supply, Installation, Implementation, Configuration and  
Integration of an ERP system**

**Pre-bid Meeting**



# Table of contents



- MPPKVCL, Indore
- MPPKVCL, Jabalpur
- Existing IT Applications
- Linkage between RAPDRP and ERP



# Madhya Pradesh Paschim Kshetra Vidyut Vitaran Company Ltd., Indore

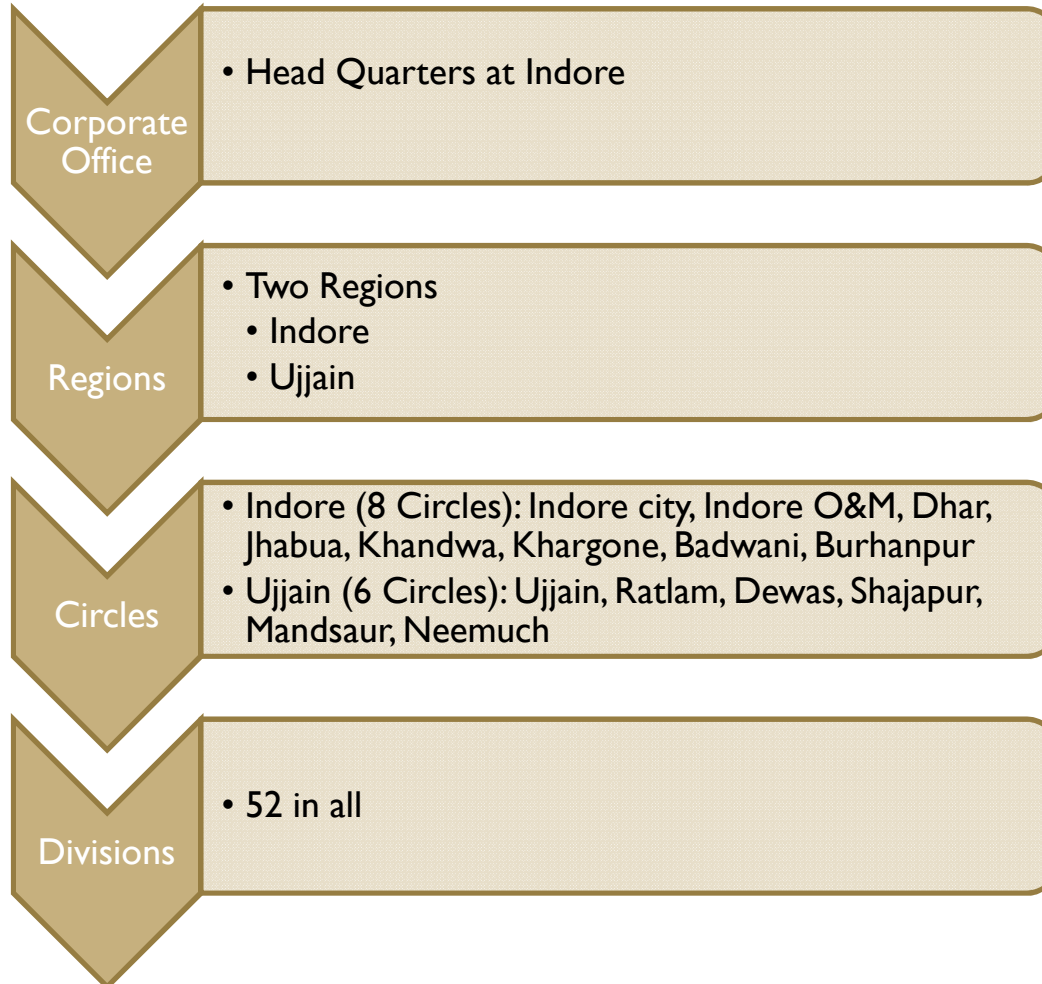


# Organization Highlights

- Formed on 31<sup>st</sup> May 2002
- Started independent functioning from 1<sup>st</sup> June 05
- Owns & manages retail supply of electricity within its territory
- Responsible for management of all associated activities, including
  - Assets
  - Operation and maintenance of network and supply
  - Technical and financial planning
  - Business development
  - Management of human resources
  - Legal and regulatory affairs
- Customer base: 33 lakhs approx.
- Total area: 77021 sq. Km
- The Discom manages:
  - 206,418 km of HT and LT lines,
  - 982 sub-stations (33/11 kV),
  - 89784 distribution transformers.
- Total connected load: 4507 MW (as of 2009-10)
- Energy transmitted across various consumer categories: 12,705 MUs (as of 2009-10)



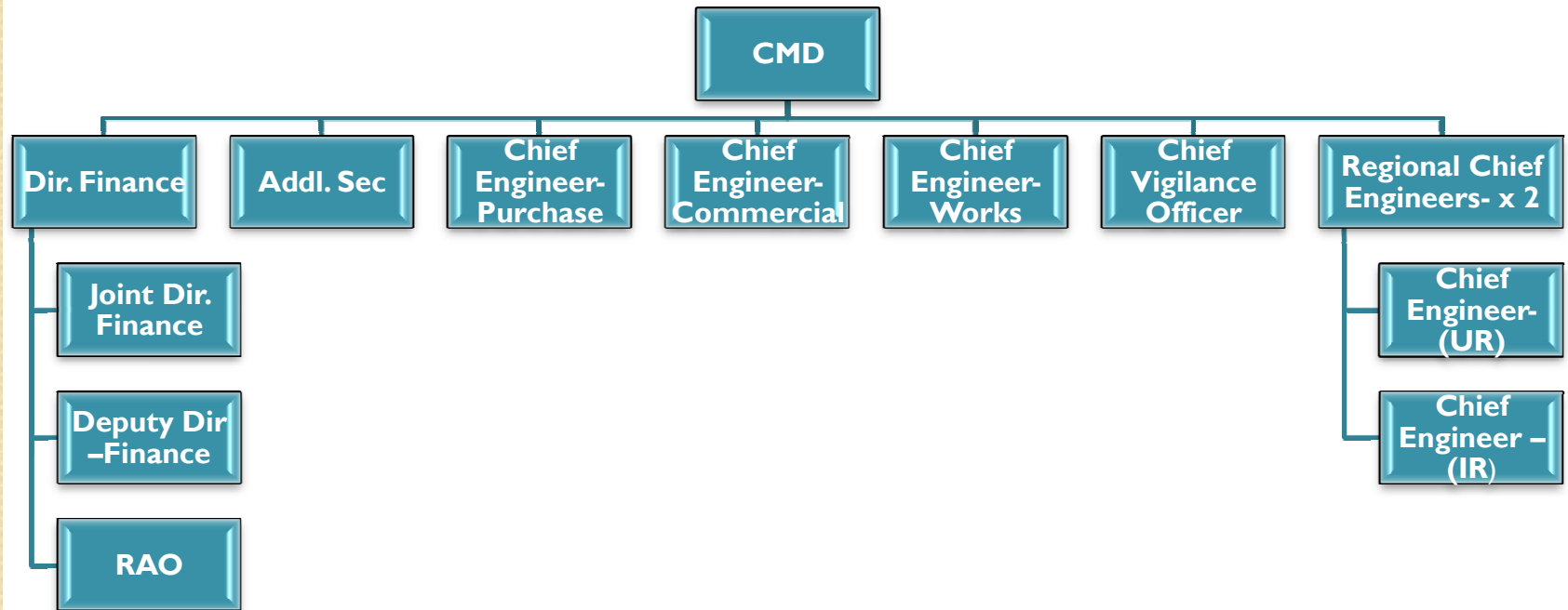
# Organization Structure



Other units below Division level include Sub-divisions, Sub-stations, Distribution Centres

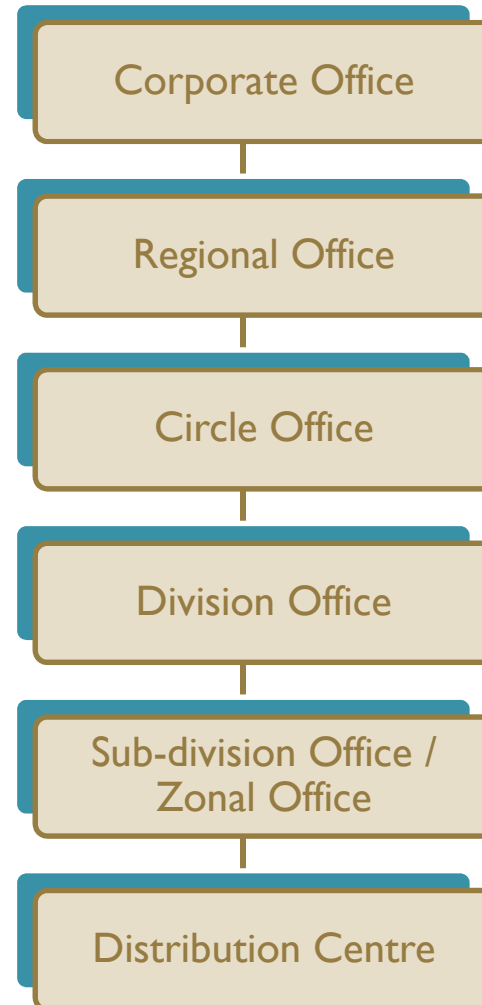


# Corporate Structure





# Field Structure





# KPIs since 2005-06



Sl. No	Particulars	Financial year				
		2005-06	2006-07	2007-08	2008-09	2009-10
1	Input (MUs)	11367.95	11663.92	12789.16	12656.18	12705.57
2	Demand (billing) Rs. Cr.	2401.65	2749.79	2958.43	2994.22	3393.39
3	Distribution loss (%)	31.91%	30.73%	33.99%	33.76%	28.62%
4	Collection efficiency (%)	92.67%	91.69%	92.30%	97.61%	97.65
5	AT&C loss (%)	36.90%	36.49%	39.07%	35.35%	30.3%
6	DTR failure rate (%)	12.65%	16.96%	11.89%	11.70%	11.69%

- ❑ Customer base: 33 lakhs approx.
- ❑ Total area: 77021 sq. Km
- ❑ Length of HT and LT lines: 206,418 km
- ❑ No. of 33/11 kV sub-stations: 982
- ❑ No. of distribution transformers: 89784



# MPPKVCL, Indore Business Challenges



We are growing...

- Our consumer base has increased by 27% from 24 lakhs in FY '07 to 31 lakhs in FY '10 and is expected to increase by 45% by FY '12 with a customer base of more than 45 lakhs
- Our Revenue has increased by 21.38% from FY 07 to FY 10.
- Our distribution network has grown by 20% over the past 3 years



# Madhya Pradesh Poorv Kshetra Vidyut Vitaran Company Ltd., Jabalpur

Supply, Installation, Implementation, Configuration and  
Integration of an ERP system

Pre-bid Meeting

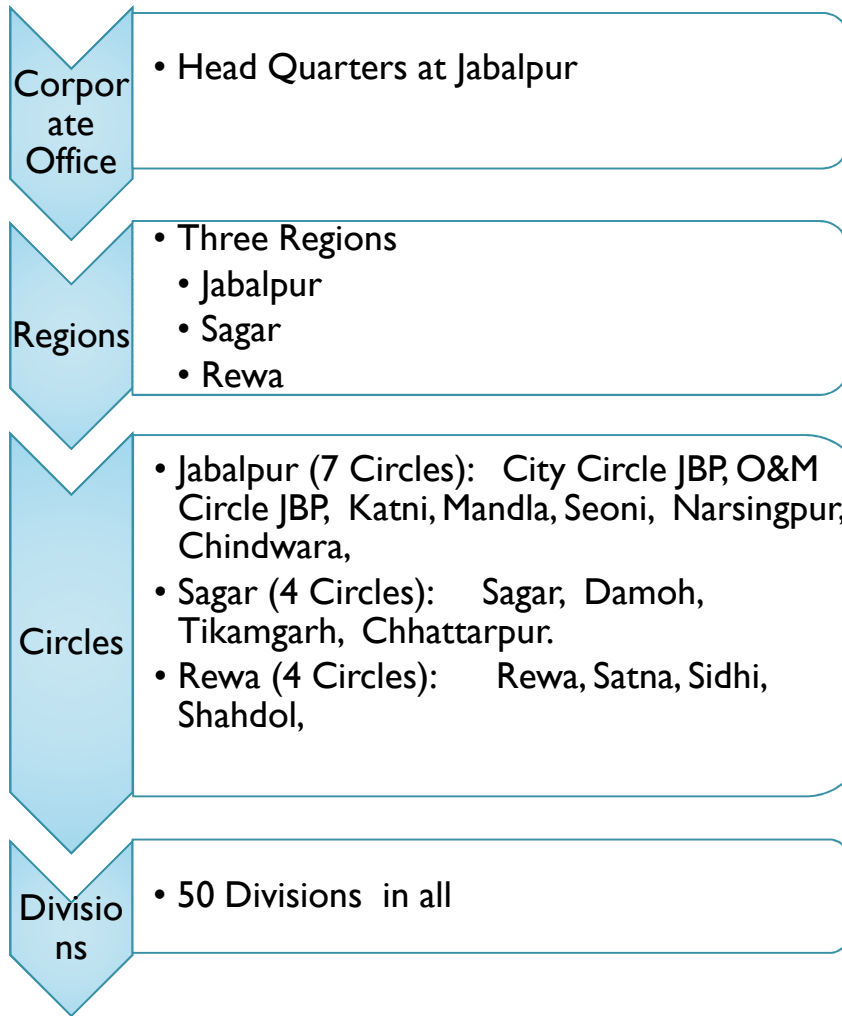


# Organization Highlights

- Formed on 31<sup>st</sup> May 2002
- Started independent functioning from 1<sup>st</sup> June 05
- Owns & manages retail supply of electricity within its territory
- Responsible for management of all associated activities, including
  - Assets
  - Operation and maintenance of network and supply
  - Technical and financial planning
  - Business development
  - Management of human resources
  - Legal and regulatory affairs
- Customer base: 29.09 lakhs approx.
- Total area: 1,35,162 sq. Km
- The Discom manages:
  - 1,88,866 km of HT and LT lines,
  - 887 sub-stations (33/11 kV),
  - 63,424 distribution transformers.
- Total connected load: 3,157.39 MW (as of 2009-10)
- Energy transmitted across various consumer categories: 6409.69 MUs (as of 2009-10)



# Organization Structure



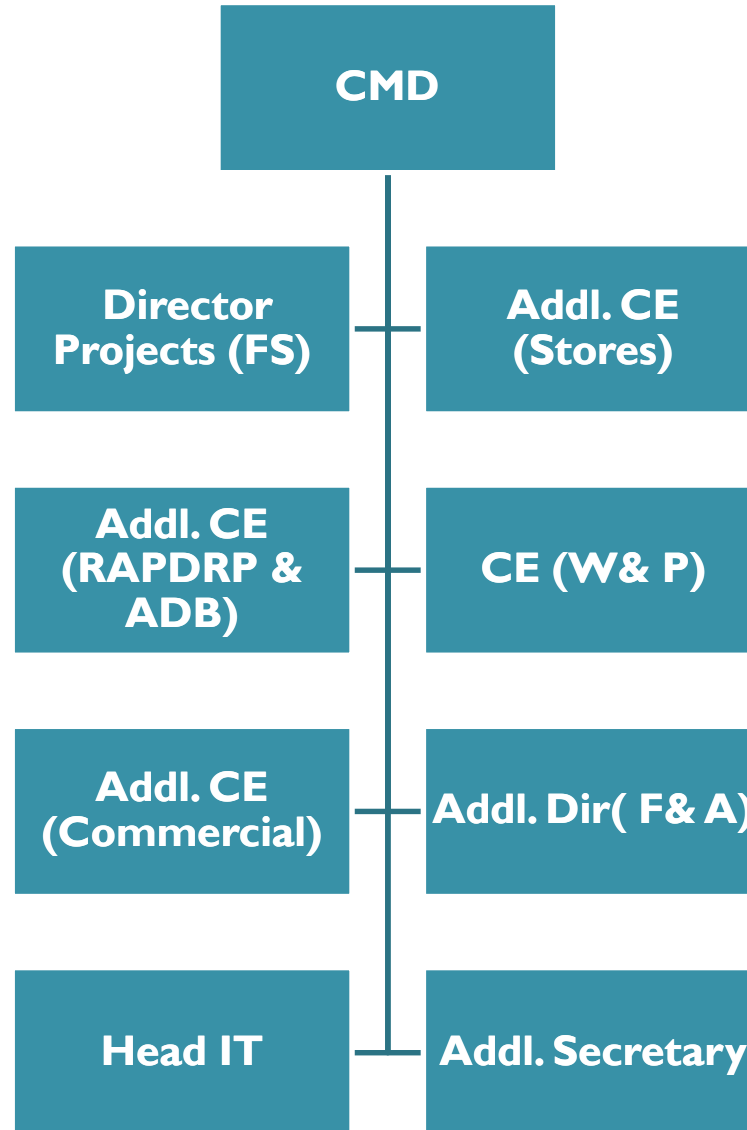
**Eastern Zone of MPSEB  
(District Map)**



Other units below Division level include Sub-divisions, Sub-stations, Distribution Centres

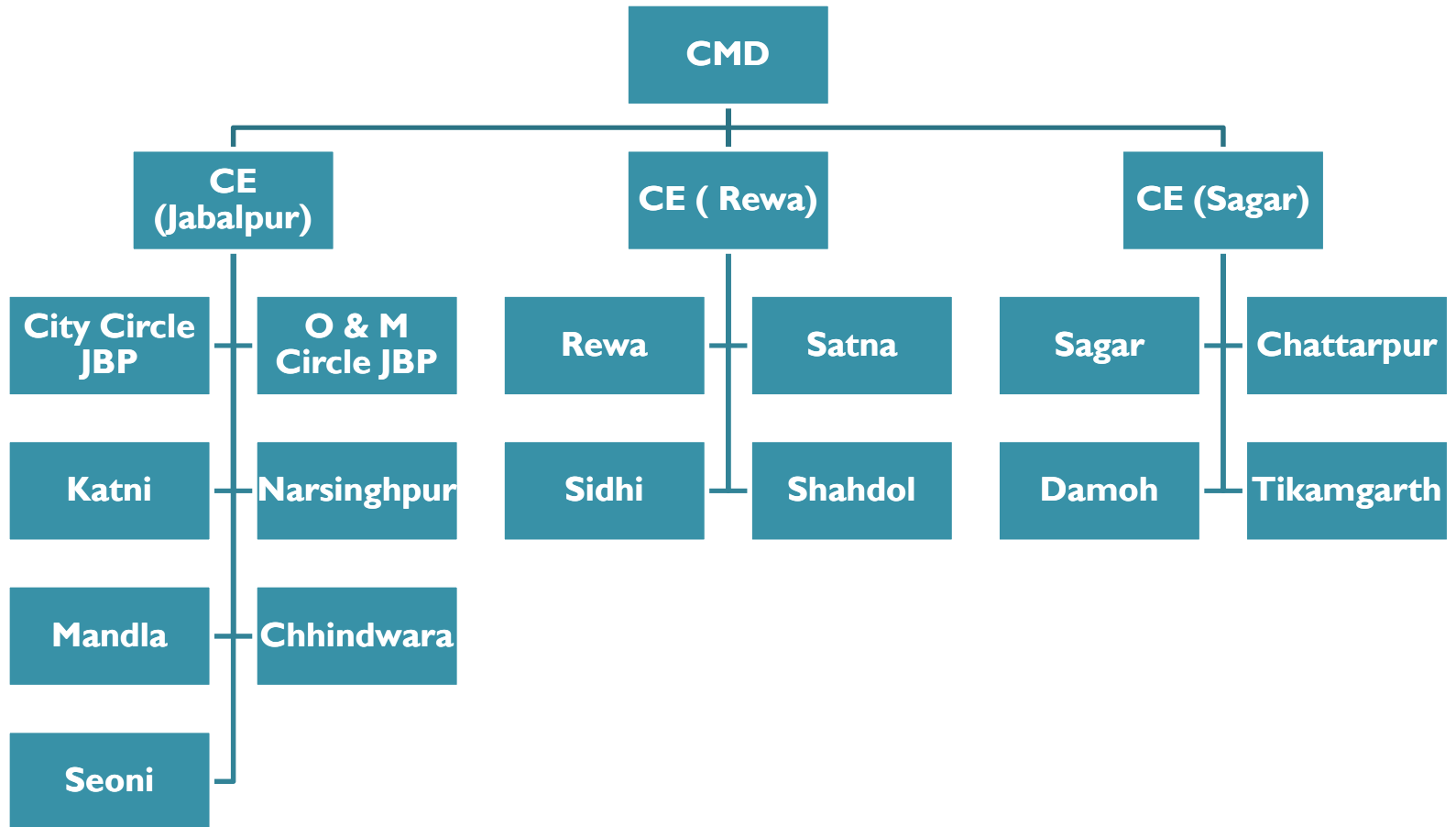


# Corporate Structure





# Field Structure





# KPIs since 2005-06



Sl. No	Particulars	Financial year				
		2005-06	2006-07	2007-08	2008-09	2009-10
1	Input (MUs)	8865.00	9062.28	9816.87	9603.73	9631.60
2	Demand (billing) Rs. Cr.	2231.39	2420.55	2540.17	2679.20	2960.63
3	Distribution loss (%)	36.46%	35.81%	37.72%	37.23%	33.45%
4	Collection efficiency (%)	91.84%	87.63%	89.29%	91.20%	90.84%
5	AT&C loss (%)	41.64%	43.75%	44.39%	42.75%	39.55%
6	DTR failure rate (%)	17.25%	14.83%	13.11%	15.50%	12.59%

- ❑ Customer base: 29 lakhs approx.
- ❑ Total area: 1,35,162 sq. Km
- ❑ Length of HT and LT lines: 188,866 km
- ❑ No. of 33/11 kV sub-stations: 887
- ❑ No. of distribution transformers: 63424



# MPPKVVCL, Jabalpur Business Challenges



We are growing...

- Our consumer base has increased by 24% from 23.43 lakhs in FY '07 to 29.09 lakhs in FY '10 and is expected to increase by 69% by FY '12 with a customer base of more than 39 lakhs/ around 40 lakh.
- Our annual sales turnover has increased by 10.18% from FY 07 to FY 10.
- Our annual collection has increased by 26.8% from 2121.06 Cr. in FY 07 to 2689.42 Cr in FY 10.
- Our distribution network has grown by 33% over the past 3 years ( Taking into a/c only the no . Of 33KV/11kv sub stations increased during 07 -10 period).



# Existing applications

Pre-bid Meeting for ERP Implementation



मध्यप्रदेश  
परिक्षा केंद्र  
विद्युत वितरण कंपनी लिमिटेड  
इंदौर



विद्युद् ब्रह्मेति

# IT Initiatives till date ...

Application Name & functional description	Stand-alone /Integrated Application	Future Plans (Phase out or continue)	Application Type - Batch , Online , PC, Client - Server , Web (WEB)	Hours of Application Availability to Business (Days X Hours)	Database	Languages	Location of Resources	Comments
LT Billing (RMS)	Stand alone application	Phase Out	Client-Server	7x24	Oracle 8i	C, Cobol,	LT Billing centres at Circle/Dn. Levels	LT Billing application used by over 150 employees at over 32 billing centers
HT Billing Software	Stand alone application	Phase Out	PC	6x8	Sybase	C, Cobol,	At RAOs	HT Billing application used by over 12 employees at 6 RAOs
Financial Accounting	Stand alone application	Phase Out	Client-Server	6x8	Sybase	C, Cobol,	At RAOs	Financial Accounting application used by over 12 employees at 6 RAOs
Payroll System	Stand alone application	Phase Out	Client-Server	6x8	Sybase	C, Cobol,	At RAOs	Payroll application used by over 12 employees at 6 RAOs



मध्यप्रदेश  
परिक्षा केंद्र  
विद्युत वितरण कंपनी लिमिटेड  
इंदौर



विद्युत् ब्रह्मेति

# IT Initiatives till date ...

Application Name & functional description	Stand-alone /Integrated Application	Future Plans (Phase out or continue)	Application Type - Batch , Online , PC, Client-Server , Web (WEB)	Hours of Application Availability to Business (Days X Hours)	Database	Languages	Any run time licenses ex, Testing tools	Location of Resources	Comments
Stores Inventory and Accounting	Stand alone application	Phase Out	Batch	6x8	Sybase	C, Cobol,	NA	At Area Stores.	Store Inventory application used by over over 10 employees at 5 Area Stores.
GPF Accounting	Stand alone application	Phase Out	Batch	6x8	Sybase	C, Cobol,	NA	At head office(One location only)	Single location
Web based MIS **	Stand alone application	Continue	Web	7x24	MS SQL	ASP	NA	At Circles,Divisions,Area Stores etc.	Web based MIS for daily information at Circle level
Application for Centralised Call Centre	Stand alone application	Phase Out	Web	7x24	MySQL	VB6	NA	At centralised call centers at FOCs at Jabalpur.	Web based call centre application used at FOCs and Centralised call centre



मध्यप्रदेश  
पश्चिम क्षेत्र  
विद्युत वितरण कंपनी लिमिटेड  
इंदौर



विद्युद् ब्रह्मेति

# IT Initiatives till date ...

Application Name & functional description	Stand-alone /Integrated Application	Future Plans (Phase out or continue)	Application Type - Batch , Online , PC, Client-Server , Web (WEB)	Hours of Application Availability to Business (Days X Hours)	Database	Languages	Any run time licenses ex, Testing tools	Location of Resources	Comments
e- Recruitment **	Standalone	Continue	Web	6X8	-	Java	-	At Head Quarters	-
PMS **	Standalone	Continue	Web	6X8	-	Java	-	At Head Quarters	-

Note : \*\* The Applications listed are available only at MPPKVCL, Jabalpur.



# Ongoing initiatives- R- APDRP



Technical	Commercial*	Network	IT Infrastructure	Others
<ul style="list-style-type: none"><li>• Meter Data Acquisition</li><li>• Energy Audit</li></ul>	<ul style="list-style-type: none"><li>• New Connection / Disconnection</li><li>• Commercial database of consumers</li><li>• Metering, Billing and Collection</li><li>• Centralized Customer Care Service</li></ul>	<ul style="list-style-type: none"><li>• GIS based consumer indexing and asset mapping</li><li>• GIS based integrated network analysis</li></ul>	<ul style="list-style-type: none"><li>• Data Centre</li><li>• DR Site</li><li>• LAN / WAN</li></ul>	<ul style="list-style-type: none"><li>• MIS</li><li>• Web Self-Service</li><li>• Identity &amp; Access Management</li></ul>

83 towns are covered under R-APDRP

\* Oracle has been selected for Commercial applications by ITIA (TCS)

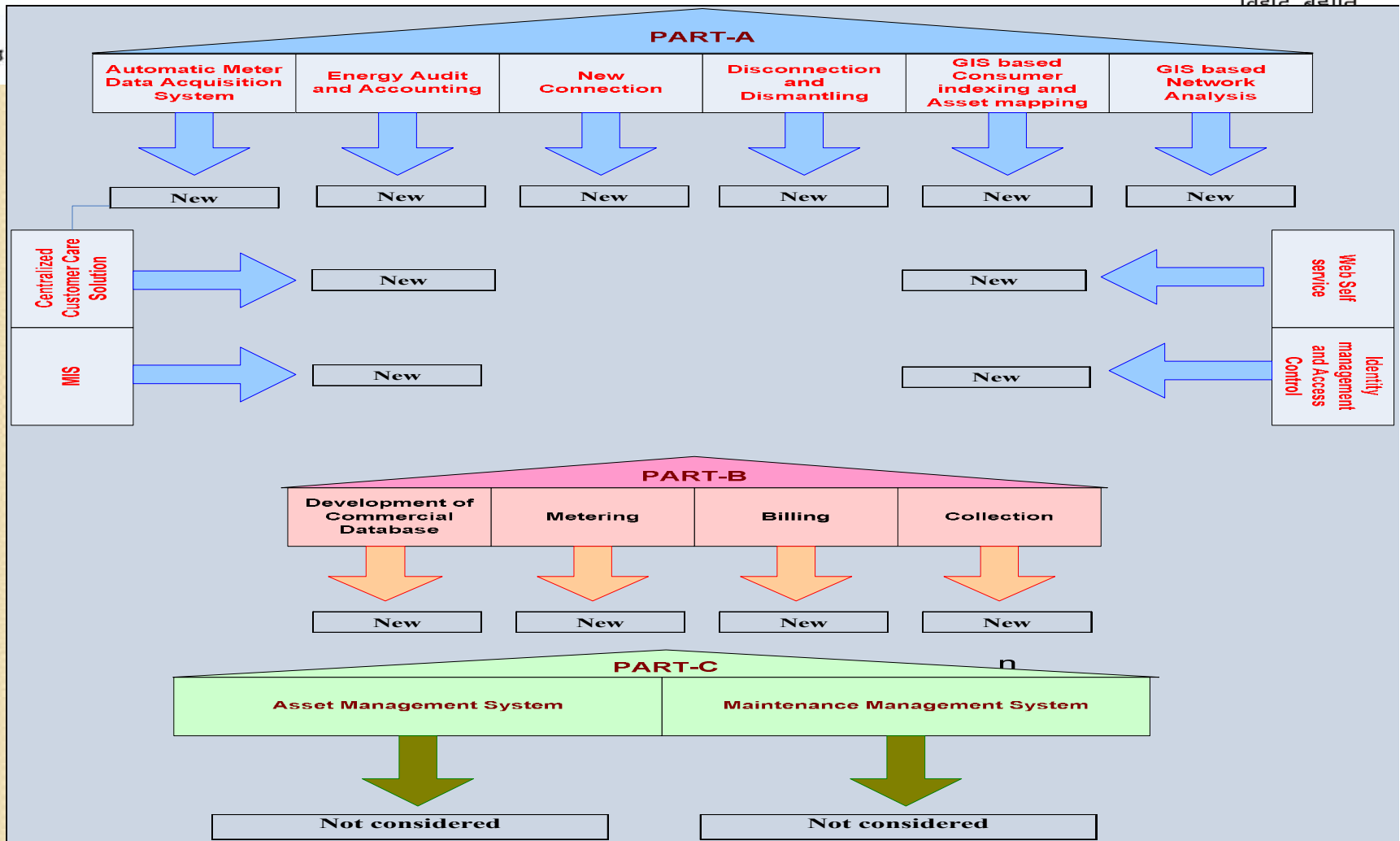


मध्यप्रदेश  
परिचय क्षेत्र  
विद्युत वितरण कंपनी लिमिटेड  
इंदौर



विद्युत बढोत्ति

# R- APDRP Implementation



## Mapping of Applications (Existing/Proposed)

Note : Utility to choose the required Options in the relevant Boxes provided against each of the probable Application Requirement



मध्यप्रदेश  
परिचय क्षेत्र  
विद्युत वितरण कंपनी लिमिटेड  
इंदौर

# Ongoing initiatives – R- APDRP



Module Name	Present Status
Consumer Metering, Billing & Collection System.	This is integrated Application based on Oracle and is common for both LT & HT Consumers
Geographical Information System (GIS) based asset and consumer mapping & tracking System.	This GIS based Application is being designed to track the filed assets and mapping of consumers on to these assets without any human interface.
Energy Audit Management System.	This under development and is being designed to estimate the AT & C losses and to point out the high loss field assets such as transformers etc . to enable maintenance staff to plan corrective actions & measures
New Connections / Disconnection management	A web based application under development and is aimed at speedy processing of Applications of disconnections and New consumers' Applications.



# Ongoing initiatives – R-APDRP



Module Name	Present Status
Call centre based Customer Care Services.	This web based application under development is aimed at logging, tracking and monitoring Consumer faults and Consumer grievances.
Web Self Service	This also a web based Application under development and provides easy access to consumers to view their Bills directly and make payments through KIOSKS that are available.





# Linkage between R- APDRP & ERP



- Some infrastructure may be common. For example, LAN / WAN connectivity across offices has already been initiated and will be in place before ERP implementation.
- There will be need for data interchange between the ERP system and R-APDRP system.
- The exact nature of interchange will be finalized during business blueprinting stage
- Implementation Partner will have to ensure smooth interchange with R-APDRP



Any additional queries must be submitted  
in writing (through e-mail) to  
[mppkvvcl.erp@gmail.com](mailto:mppkvvcl.erp@gmail.com)  
latest by 08/ December/2010 11.00  
hours.



मध्यप्रदेश  
परिचय क्षेत्र  
विद्युत वितरण कंपनी लिमिटेड  
इंदौर

# Thank you

