GULBARGA ELECTRICITY SUPPLY COMPANY LIMITED



ANNUAL PERFORMANCE REPORT FOR THE FY 2014-15

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1.0 Introduction:

- 1.01 GESCOM was formed on 01-06-2002 comprising of 6 Districts namely, Gulbarga ,Bidar, Yadgir, Raichur, Koppal & Bellary. Since then, the Company has successfully entered into 14th year of operation.
- 1.02 The Transmission and Distribution Network of GESCOM through which power is supplied as as on 31-03-2015, consist of 129 Nos. of 33KV Substations, 22 Nos. of 66 KV Sub Stations, 103 Nos. of 110 KV Sub Stations and 14 Nos. of 220 KV Sub Stations.
- 1.03 The Company has following Distribution infrastructure, as on 31.03.15

a. 33 KV Line : 2528.09 kms
 b. H.T. Lines (11 KV Lines) : 49781.95 kms
 c. L.T. Lines (433/220 V Lines) : 81727.0 kms
 d. 11KV/433 V Distribution Transformers : 72638 Nos

The Company has been able to achieve HT to LT lines ratio 1:1.64

2.0 Operation:

2.01 The Company has a Consumer base of **25,98,638** installations as on 31-3-2015 the details is as follows:

01	BJ/KJ	576776	09	Water Works (HT)	115
02	Domestic	1398356	10	Industrial (HT)	1199
03	Commercial (LT)	214254	11	Commercial (HT)	358
04	IP Sets	307081	12	Lift Irrigation (HT)	234
05	Industrial (LT)	53471	13	Colonies (HT-4)	31
06	Water Supply (LT)	15350	14	KPCL	27
07	Street Light Circuits	12217			
08	Temporary	19169			

Total(LT) = 25,96,674 Total(HT) = 1964

Total Consumers = 25,98,638

3.0 Purchase and Sale of Power:-

Power Purchase cost for the FY 2014-15 is Rs. 2,422.69 Crores (Provisional)

Particulars	In MU
Power Purchase (at IF Point)	7615.01
Sales (Metered+ Un-metered)	6131.71
T&D Losses	1483.3
% Loss	19.47%

4.0 Revenue Demand and Collection:

The Consumer category wise Demand raised and Collection made during 2014-15 . the details is as follows:

(Rs in crores .)

	(Rs in crores .)			
Sl. No.	Category	Demand	Collection	
1	LT-1 (BJ/KJ)	69.69	60.09	
2	LT-2 (AEH)	395.02	394.19	
3	LT-3 (Commercial)	194.28	195.37	
4	LT-4 (IP)	1281.75	1340.55	
5	LT-5 (Industrial)	101.24	103.31	
6	LT-6 (Water Supply & Street Lights)	231.2	95.69	
7	LT-7 (Temporary)	18.93	18.73	
8	HT-1 (Water Supply)	43.39	34.09	
9	HT-2a (Industrial)	687.69	698.95	
10	HT-2b (Commercial)	51.63	51.66	
11	HT-2c Education Institute	7.52	7.57	
12	HT-3a (LI)	23.23	21.96	
13	HT-4 (Colonies)	7.37	6.91	
14	HT -5	6.75	6.75	
15	KPCL	2.42	2.39	

Total	3122.11	3038.21

5.0 Capital Expenditure:

5.01 Capital Expenditure proposed to be incurred during the FY-14-15 on various works is to the tune of Rs. 509.50 Crores. The category wise break up is as follows:

Work Wise Capital Budget for the FY 2014-15

Sl No.	Particulars	Total Budget FY 14-15 Rs In Lakhs	
I	Mandatory works, Social obligations and other works		
a	GKS-SC (SCP)	960	
b	GKS-ST (TSP)	560	
c	GKS-BC	240	
d	GKS-Min	240	
	GKS Totat	2000	
i	RGGVY	2000	
j	Rehabiliation of Flood affected villages (Special Programme)	500	
k	Water Works	500	
	Sub-Total	5000	
II	Expansion of Distribution Network and System Improvement works.		
a	E&I works		
	Additional DTCs		
i	25 kVA	300	
1	63 kVA	175	
	100 kVA	125	
	Sub-Total	600	
	Enhancement of DTCs		
ii	25kVA to 63kVA	200	
	63kVA to 100kVA	100	
	Sub-Total	300	
iii	Shifting of existing transformers to load center	30	
iv	LT Line Conversion of 1 Ph 2 wire or 1 Ph 3 wire to 3Ph 5 Wire.	40	
V	Providing SMC Box to DTCs.	30	

vi	Replacement of Broken poles	-
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b	Energisation of IP Sets under General category	300	
c	Service Connection works other than IP/BJ/KJ/Water works.	1500	
d	Construction of new 33kV Stations.	1500	
e	Augmentation of 33kV Stations	500	
f	Construction of new 33kV Lines/Link Lines	200	
g	Construction of new 11kV Lines for 33kV / 110kV Sub-Stations (Including SDP)	2000	
h	Nirantara Jyoti Yojana	8900	
i	RAPDRP Part-A	1000	
j	RAPDRP Part-B	15000	
k	Creating Infrastructure to UAIP Sets Regularized during 2014-15	4000	
	Sub-Total 35000		
III	Reduction of T&D and AT&C Losses.		
a	Providing meters to IP Sets above 10 HP	30	
b	Providing meters to BJ/KJ.	40	
c	Providing meters to Street Lights.	30	
d	Providing Timer Switches to Street Lights.	100	
e	Replacement of Faulty / MNR energy meters by static meters.	100	
f	Shifting of meters to outside premises	100	
g	DTC Metering of RAPDRP	100	
h	DTC Metering of non RAPDRP	1000	
i	Replacement of 33kV Line Rabbit Conductor	100	
1	by Coyote Conductor	100	
j	by Coyote Conductor 11kV Re-Conductoring	500	
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m	Taluka wise segregation of 11kV feeders	100	
Sub-Total		2500	
IV	New Initiative Works		
a	IT Initiatives, Automation and Call Centers	500	
b	Establishing ALDC & SCADA	50	
c	R&M to SCADA	-	
	Sub-Total	550	
V	Replacement and other miscellaneous works		
a	Replacement of failed Distribution Transformers	5000	
b	Replacement of Power Transformers	200	
С	Replacement of Old and failed equipments and other works of existing 33kV Stations & Lines.	1000	
d	R&M to 33kV Stations	-	
e	R&M to 33kV Lines	-	
f	R&M to DTCs	-	
g	R&M to Lines	-	
h	Preventive measures to reduce the accidents (Providing intermediate poles, Re-stringing of sagging lines, providing guy and stud, guarding, shifting of lines, fencing of DTCs)	500	
i	T&P Materials		
	i) Furniture	100	
	ii) Saftey Materials	100	
j	Civil Engineering works	100	
	Sub-Total	7000	
	Grand Total (I+II+III+IV+V)	50950	

6.0 Electrification Works:

- 6.01 **Electrification of Rural areas**: Total 1070 locations of Ashraya colony, Harijan Basthis, Thandas in GESCOM jurisdiction have been electrified.
- 6.02 **Electrification of Drinking Water supply**: Total 845 nos.of drinking water supply schemes were energized during 2014-15.

6.03 **Rajiv Gandhi Grameen Vidyuthikaran Yojana**: The Company has taken up the work of creation of necessary infrastructure for electrification of Rural House holds, BPL installations and Habitations under the aegis of Rajiv Gandhi Grameena Vidyuthikaran Yojana. (RGGVY 11th plan scheme was completed duting May-2014.)

RGGVY 12th plan scheme for Gulbarga district was sanctioned during the year 2014 at a cost of Rs. 12.03 Crs. The Project is being awarded to M/s Sreeshwar Electricals Pvt. Ltd. Dharwad at a cost of Rs. 13.82 Crs. LOI was issued on 17.03.2015 to the contractor to complete the work on total turnkey basis.

The project includes:

1.Intensive electrification of villages : 909 Nos. 2.Electrification of BPL households : 26,518 Nos.

DPRs for DDUGJY plan for five districts of Yadgir, Bidar, Raichur, Koppal and Bellary were prepared but later on merged with DDUGJY scheme for which NAD is submitted to REC. DPRs are yet to be sanctioned.

6.04 Progress achieved up to March-2015 in respect of works under Special Government Schemes is as follows:

Sl. No	Scheme/Category	Installations serviced during 2014-15
1	IP Set (Under SCP & TSP)	1,929
2	BPL (BJ/KJ)	60,571
3	Ganga Kalyan	2,832
4	Electrification of Harijan Basthis/Janata Colonies etc.	1,070

- 6.05 There were total **3,07,081 Nos.** of IP sets existing in the company as on 31.03.2015.
- 6.06 The Company has identified 17,099 nos. un-authorized IP sets out of which 11,318 nos. are regularized and balance 5781nos. IP sets regularization work is under progress.

7.0 Metering:

7.01 Metering of all the installations is imperative to the Company, as it will result in accurate determination of technical and commercial losses.

This is also, a statutory requirement under the Electricity Act, 2003 and mandatory as per directives of KERC. The progress of metering during the year is as under:

- a) Metering of BJ/KJ installations has been taken up on priority and 10,053 Nos. of installations have been metered during the year.
- b) 12,653 Nos of non-recording meters were replaced and 1256 Nos. direct connection installations were provided with meters during the year.
- c) The Company has giving fund to each O&M Divisions for procuring Energy Meters for:
 - 1.Replacing all MNR Meters
 - 2. Providing Meters to all DC installations
 - 3. Providing 100 % Metering to BJ/KJ Installations

8.0 Energy Audit:

- 8.01 **DTC Metering**: The Company has total 10,892 Nos. DTCs in Towns and Cities and 61,746 Nos. DTCs in rural. The Turnkey contracts has been awarded for metering and auditing of 8060 Nos. DTCs in urban area and 49,011 Nos. of DTCs in rural areas.
- 8.02 **Periodic Calibration of Energy meters**: The Company has taken up periodic rating of installations as per KERC directives

HT Installations	Once in	6	months
LT Installations above 40 HP	Once in	12	months
LT Installations below 40 HP	Once in	2	years
LT-1+LT-2+LT-3	Once in	5	years

For this the Company has created additional rating batches in MRT wing.

9.0 System Improvement Works:

- **9.01 R-APDRP:** This scheme was sanctioned for 21 towns in GESCOM. Part A for Rs.37.37 Crore and Part B for Rs. 200.79 Crore. Amount released under part A is 19.19 Crore and part- B is Rs. 74.99 crore part -A work is under implementation and also part-B work under progress.
- **9.02 New Sub Stations:** The Company has commissioned 4 Nos. of new 33/11KV Sub-Stations out of 12 proposals. The balance sub-stations works are expected to be completed during the year 2015-16
- **9.03 New DTCs:** Total **4,503** Nos. of Distribution Transformers of different capacities were added to the distribution system during 2014-15 to bifurcate the Load, improve tail end voltage and to bring down the losses and also the failure rate. The total nos. of distribution transformer at the end of FY-15 are 72,638 Nos. Transformer failure rate during the year was 19.30%
- **9.04** New Lines: During the year 4650.15 kms of HT Lines was added and 2871.33 km of LT lines were added to the system. Total length of 11 kV

line and LT line at the end of year is 49781.95 kms and 81727.0 kms, respectively.

- 9.05 HT to LT Ratio: HT to LT ratio in GESCOM stands at 1:1.64
- **9.06 Re- conductoring 11 KV Lines:** To get improve in voltage level to the tail end consumers and to reduce losses. The company carried out Reconductoring work about 720.94 kms for the year 2014-15

10.0 Activities of Vigilance Wing:

10.01 In order to curtail the theft of energy, the Vigilance Wing has inspected 36,312 installations during the year. Out of this, 6,312 cognizable cases and 10,972 non-cognizable cases were booked. The demand for back billing charges raised was to the tune of Rs.2678.66 lakhs out of which Rs. 1535.6 lakhs was recovered. A compounding fee Demand of Rs. 181.84 Lakhs has been raised, of which Rs. 200.37 lakhs has been collected.

11.0 Improvement Initiatives:

- 11.01 Out of 999 GVPs (Gram vidyut pratinidhi) 919 Nos. of GVPs are working in GESCOM were converted in to Micro Feeder Franchisees as per the guidelines provided under RGGVY scheme.
- 11.02 Web based Total Revenue Management (TRM): The Web based TRM has been implemented to all 51 Sub-divisions in Rural areas of GESCOMby M/s. N Soft (India) Services Pvt. Ltd., Bengaluru and for 21 RAPDRP towns by M/s Infosys, Bengaluru. Tender was invited for bids Gulbarga Zone (LOT-1) and Ballari Zone (LOT-2) on e-procurement portal on 04-08-2014. 2 Nos of bidders were participated namely; 1) M/s. N Soft (India) Services Pvt. Ltd., 2) M/s. BCITS, Ballari, in the tender. Meanwhile M/s. Transivision Software Pvt. Ltd., Bengaluru and M/s. Zygox InfoTech Pvt. Ltd., Bengaluru have filed a writ Petition at High Court of Karnataka, Bengaluru (WP. No. 44453-44455/2014) and got technical TRM of work. Hence the contract period of Web based TRM Services GESCOM by M/s. N Soft (India) Services Pvt. Ltd., Bengaluru was extended for six months. The evacuation of write petition is to be expected.
- 11.03 **Training Center at Corporate office:** A centralized in-house Training Center has been established at the Corporate Office GESCOM, Gulbarga on date 26.03.2008. Employees have been trained in different, related aspects to handle the activities quite efficiently.
- 11.04 **Hosting of Website**: GESCOM is having own website i.e., www.gescom.in the link is maintained by World Web Hosting (WWH) and the maintenance charges of Rs. 41,400/-per annum.

- 11.05 **Communication**: Broadband connectivity has been established and the availability of network connectivity is continuously monitored by deploying IT assistants.
- 11.06 **ABT:** The IP link has been established between SLDC and GESCOM for real time display of Intra-State-UI flows.
- 11.07 **Customer Care Center**: A 24x7 Customer Care Center is Established in corporate office, GESCOM, Kalaburagi to provide services to the consumers for attending billing issues, Power supply issues, water supply new connections issues etc. The issues are referred to concerned official/Officers, Receive the feedback on the complaint and complainant is given feedback.
- 11.08 **SCADA & DCC**: The SCADA project amounting to Rs. 15.09 Crores and covering 86 Nos. of 33/11 KV Sub- Stations is taken up in phase-1 in GESCOM. The RTUs & Interface panels are erected at 82 Nos of 33/11 KV sub- stations. Erection & SAT work is under progress at 2 Nos of S/S. And remaining 2 Nos of 33/11 KV S/S are upgraded to 110 KV S/S.

In phase-2 the SCADA project amounting to Rs. 2.83 Crores and covering 21 Nos of 33/11 KV Sub-Stations in GESCOM the RTUs UPS, Interface panels & VSAT are received at all the 21 Sub-Stations. The erection of RTU & Interfacing panel completed and UPS & VSAT erection work is under progress at all the 21 S/S. The Distribution Control Center (DCC) at Corporate Office is functioning.

- 11.09 **E-Tendering:** The concept of e-procurement has been successfully implemented in GESCOM. All the tenders of GESCOM are being carried out through e- procurement portal.
- 11.10 **Use of Hand held machines for Bill generation:** GVP's and meter readers are using the Hand held machines for billing.
- 11.11 **Centralized HT Billing:** Centralized HT Billing system or High Value Consumer Management System (HVCM) is the means through which the information about HT consumers is gathered and analyzed. MRIs have been given to all O&M Sub Divisions for this purpose. The Billing information of HT Consumers from different Divisional offices can be sent through E- Mail into the system. The System will generate the bills and sent to Consumers. The System will generate various types of report based on the data fed, to ensure accurate and reliable output.
- 11.12 **ON-LINE Bill Payment:** Commenced online bill payment facility from July-2014. Presently the facility for R-APDRP towns consumers commenced and it will be proposed to extended to whole of GESCOM shortly.

- 11.13 **Video Conferencing facility:** Video conferencing facility is provided at Corporate Office, 4 line of ISDN by BSNL on 29-03-2006. Now from last 3 months the KESWAN has giving video conferencing facility at Corporate Office.
- 11.14 **PC Penetration:** Internet connectivity has been provided to Corporate Office/Zonal Office/Circle Office and Divisional Office BSNL lease line.
- 11.15 Consumer Grievance Redressal Forum: The Company has
 Constituted Consumer Grievance Redressal Forum, as mandated by
 the regulations issued by the Karnataka Electricity Regulatory
 Commission to address Consumer Grievances. There are 6 Nos of
 CGRF in all the 6 Nos of revenue districts of GESCOM area. They are
 constituted at district head quatres like Kalaburagi Bidar, Yadgir,
 Bellary, Raichur & Koppal. The complaints received & redressed at
 CGRF after formation in revenue districts are as follows. Out of 23
 cases before CGRF & 1 cases have been disposed and 22 cases are
 pending as on 31.03.2015. The field officers have been asked to make all
 efforts to comply with the Standards of Performance set by the KERC.
- 11.16 Information under Right to Information Act: RTI applications are being forwarded to concerned officers immediately and continuously persuading to give satisfactory replay from the concerned. Because of the effort their was no adverse remark from commissioner RTI, Bengaluru.
- 11.17 Local Area Network: LAN has established at Corporate Office and also extended to O&M Zonal office Kalaburagi using UTP-5 cable. 256 kbps leased line from BSNL is used internet access from all the PCs of Corporate office through a gateway (x-series 225 IBM server 2 Nos)
- Remote Automatic Meter Reading: Remote automatic meter 11.18 reading of DTCs is taken up in GESCOM. in order to achieve accurate energy audit at cutting edge level with minimum human intervention. The RAMR will be transferred to central locations in corporate office and also for respective Divisional headquarters. Necessary components such as modems sim cards base computer software etc., are included in the turnkey awards. Total turnkey awards for DTC metering including RAMR (Remote automatic meter reading) are placed under ten LoTs. LOT-1:481 Nos of DTC metering of Bidar division LOT -2: 127 Nos of DTC metering in Humnabad division LOT-3: 775 Nos of DTC metering in Gulbarga-1 division LOT-4: 447 Nos of DTC metering of Gulbarga-2/Sedam division LOT -5: 832 Nos of DTC metering in Yadgir division LOT-6: 554 Nos of DTC metering in Bellary division LOT-7:1139 Nos of DTC metering of Hospet division LOT -8: 1186 Nos of DTC metering in Koppal/Gangavathi division LOT-9: 1129 Nos of DTC metering in Raichur/Sindhanur division LOT-10: 7138 Nos of DTC metering in R.APDRP towns Out of 13808 Nos of DTCs, 4495

Nos of DTC have been metered and balance of 9313 Nos DTC are yet to be metered by M/S OMNE Agate System Pvt Ltd.

12.0 Future 'IT' Initiatives:

- Establishing Centralized Data Warehouse Server
- Establishing LAN and WAN Connectivity from 22.07.2014
- Geographical Information System (GIS) by infosys for RAPDRP towns
- Extension of ATP Kiosks to other Towns
- Establishing Intranet server
- Document Management System
- Web based HRM System
- Financial Accounting Package
- Computerization of Accounting
- Online Cash Management System

13.0 Personnel Position:

The details of manpower in various cadres as on 31.03.2015 are as under:

Group	Sanctioned Strength	Working strength	No. of Vacant Posts
A	333	218	115
В	378	121	257
С	3454	2069	1385
D	3644	2424	1220
Deputation Staff	77	60	17
TOTAL	7886	4892	2994

14.0 Challenges/Problems faced by the Company:

- 14.01 Metering of all installation is essential for the Company to properly Record the consumption and claim the subsidy receivable from the Government. However, there has been stiff resistance from the farmers and consumers of BJ/KJ Installations for metering of these category installations. On many occasions, the consumers have released the meters and Metering of installations being a statutory requirement, the Company is taking support from the Government for the initiatives in this regard.
- A large portion of the Company's consumers are from rural areas. The collection efficiency in respect of IP set consumers is very low. The Company has taken up massive disconnection drive in a bid to recover its dues. There has been some opposition to the disconnection drive from consumers and other quarters. The Company is seeking support of the Government and people's representatives.

14.03 The subsidy payable by the Government and dues in respect of local bodies need to be released regularly. The Company is financing its capital expenditure projects by resorting to borrowings.

14.04 The Company has following material Procured in the year 2014-15

- a. No.of 11 KV CT's Procured during the year is 142 Nos and Amounting Rs.60.125 lakhs
- b. No.of 11 KV PT's Procured during the year is 35 Nos and Amounting Rs 9.76 lakhs
- c. No.of 33 KV CT's Procured during the year is 105 Nos and Amounting Rs.36.89 lakhs
- d. No.of 33 KV PT's Procured during the year is 34 Nos and Amounting Rs. 12.71lakhs
- e. 3131 Nos of 25 KVA ,1138 Nos of 63 KVA and 309 Nos of 100 KVA Transformers is procured in the year 2014-15
- f. 370 Nos of 25 KVA ,258 Nos of 63 KVA and 86 Nos of 100 KVA Transfomers Bank was procured in the year 2014-15
- g. Total 31 Nos Distribution Transformer repair centers are existing at the end of 31.03.2015

Total Line Material procured in the year 2014- 15 is **Rs.4894.21 Lakhs** and Total Transformer procured in the year 2014-15 is **Rs. 3542.13 Lakhs**

15.00 Company's Plan for 2015-16

- 15.01 The Company endeavors to bring down the energy losses and provide better quality of supply to the consumers.
- 15.02 The Company plans to establish 12 numbers of 33/11 KV sub stations in its jurisdiction.
- 15.03 The company has already electrified all habitating with population of 100 and above. Under Rajiv Gandhi Grameen Vidyuti karanaYojana. during 2014-15, 1070 Nos. of houses have been provided with electricity.
- 15.04 The Company would like to install more ATP Kiosks to help consumers.
- 15.05 Detailed Projects Reports have been prepared for creation of infrastructure for unauthorized IP sets—which have been regularized. RECL is being approached for financial assistances for the purpose.

15.06 NJY (Nirantara Jyothi Yojane):

To arrange uninterrupted 24 hours power supply to non-agricultural loads of villages, new feeders are being drawn under Nirantara Jyothi Yojane, The Scheme was taken up in 20 taluks under Phase-I at an estimate cost of Rs. 286.89 Crs, where in out of 235 feeders, 160 feeders are

Commissioned and 75 feeders works are under progress. Under Phase-II 10 taluks works taken up at an estimate cost of 153.8 Crs, where in out of 109 feeders 64 feeders are commissioned and balance 45 feeders works are under progress.

Under Phase-I on Partial turnkey/Total turnkey, out of which detailed work awards are issued for 20 taluks, 11 taluks under PTK and 9 taluks under TTK and works were under progress.

Under Phase-II on Partial turnkey/Total turnkey, out of which detailed work awards are issued for 10 taluks, 5 taluks under PTK and 5 taluks under TTK and works were under progress.

An analysis of the scheme under Phase-I & Phase-II commissioned feeder was made and following results are found.

- 1. To provide 24 hours power supply to non-agricultural loads in rural areas.
- 2. Maintain uninterrupted and better quality power supply to non-agricultural loads.
- 3. Better control on agricultural loads on existing loads.
- 4. Improved load management.
- 5. Reduction in non-agricultural load on existing transformers.
- 6. Improvement in voltage.
- 7. Increase in billed energy and demand.
- 8. Reduction in peak load on the system.

16.00 New Initiatives taken-up/Proposed in GESCOM

Infrastructure Improvement /Addition.

- ♦ 12 Nos. of 33/11 Sub Stations to be taken up to improve voltage and also to provide reliable power supply to consumers. Tenders already in process. Entrusted works of 4 Sub Stations at Yergol, Mudhol (B) Lakhangaon & Rupalgudi.
- ◆ Pilot project of HVDS works proposed to be taken up at turvihal (Sindhanoor Taluka) being tendered at an estimated cost of Rs. 11 Crores.
- ◆ Providing infrastructure to unauthorized IP Sets is taken up. Works under process in Koppal, Bidar, Gulbarga 1& 2, Humnabad & Hospet Divisions. Simultaneously an exercise is being carried out to take the inventory of IP Sets is in progress.
- ◆ DPR,s prepared for replacement of existing HT & LT overhead conductors by Underground cable system in Glubarga, Bidar, Raichur & Bellary town limits. The DPR preparation work is entrusted to M/s L&T and M/s Schneider electric. DPR preparation works in final stage and expected shortly.

16.01 Other Initiatives

♦ Online application receiving facility made available to consumers who are interested in applying Roof Top solar Generation units.

- ♦ Proposed to take up power smart feeder/Transformer management system for pilot study in Kalaburagi to measure instantaneous/ Real-time voltage/load.
- Stretigic business unit is being implemented in 11 Sub Division.
- ◆ Proposed to install automated transformer testing facility in all 4 O&M Circle headquarters.
