

**GULBARGA ELECTRICITY SUPPLY COMPANY LIMITED**



**ANNUAL PERFORMANCE REPORT FOR FY 2012-13**

## GULBARGA ELECTRICITY SUPPLY COMPANY LIMITED



### ANNUAL PERFORMANCE REPORT FOR FY-2012-13

#### 1.0 Introduction:

1.01 GESCOM was formed on 01-06-02 comprising of 6 Districts namely, Bidar, Gulbarga, Raichur, Bellary and Koppal. & Yadgir Since then, the Company has successfully entered into 10<sup>th</sup> year of operation.

1.02 The Transmission and Distribution Network through which power is supplied to the Company, as on 31-03-2013, consist of 128 Nos. of 33KV Substations, 20 Nos. of 66 KV Sub Stations, 91 Nos. of 110 KV Sub - Stations and 12 Nos. of 220 KV Sub - Stations.

1.03 The Company has following Distribution infrastructure, as on 31.03.13

a.	HT Lines (11 KV Lines)	:	40423.93	kms
b.	LT Lines (433/220 V Lines)	:	76985.65	kms
c.	11KV/433 V Distribution Transformers	:	56930	Nos

The Company has been able to achieve a ratio of 1:2.904 between HT and LT Lines. The Company's aim is to see that this ratio is reduced to an acceptable figure of 1:2 in a short period.

#### 2.0 Operation:

2.01 The Company has a Consumer base of 24,39,319 installations as on 31-3-2013 is as follows:

01	BJ/KJ	563171	09	Water Works (HT)	85
02	Domestic	1299486	10	Industrial (HT)	1055
03	Commercial (LT)	195390	11	Commercial (HT)	254
04	IP Sets	287455	12	Lift Irrigation (HT)	172
05	Industrial (LT)	48248	13	Colonies (HT-4)	34
06	Water Supply (LT)	15065	14	KPCL	13
07	Street Light Circuits	10221			
08	Temporary	18670			

	-----		-----
<b>Total (LT)</b>	<b>2437706</b>	<b>Total (HT)</b>	<b>1613</b>
	-----		-----

Total Consumers : **2439319**

### 3.0 Purchase and Sale of Power:-

Power Purchase cost for FY 12-13 is Rs. 2058.53 Crores (Provisional)

Particulars	In MU
Power Purchase (at IF Point)	6820.41
Sales(Metered+Unmeterd)	5521.25
T&D Losses	1543.102
% Loss	21.844%

### 4.0 Revenue Demand and Collection:

The Consumer category wise Demand raised and Collection made during 12-13 is as follows:

(Rs in crores .)

Sl. No.	Category	Demand	Collection
1	LT-1 (BJ/KJ)	73.31	77.81
2	LT-2 (AEH)	303.81	294.79
3	LT-3 (Commercial)	160.59	155.02
4	LT-4 (IP)	1218.22	1102.80
5	LT-5 (Industrial)	90.50	88.67
6	LT-6 (Water Supply & Street Lights)	154.26	73.72
7	LT-7 (Temporary)	18.57	16.48
8	HT-1 (Water Supply)	34.44	25.46
9	HT-2a (Industrial)	582.00	589.22
10	HT-2b (Commercial)	39.66	41.23
11	HT-3a (LI)	14.74	14.81
12	HT-4 (Colonies)	8.33	8.00
13	KPCL	13.95	6.02
	<b>Total</b>	<b>2712.38</b>	<b>2494.03</b>

### 5.0 Capital Expenditure:

5.01 Capital Expenditure proposed to be incurred during the FY-12-13 on various works is to the tune of Rs. **529.67 Crores**. The category wise break up is as follows:

Sl. No.	Work (Scheme)	Budget Provision in Rs. Crores	Remarks
<b>1</b>	System Augmentation & Strengthening	25.00	
a	Extension & Improvement and Re conducting of 33 KV & 11KV	18.00	
b	Accelerate Power Development & reform Programme (APDRP)		
	a) Part A	10.00	
	b) Part B	150.00	
c	Replacement of faulty Distribution Transformers including power transformer	4.50	
	<b>Sub-Total-1</b>	<b>207.5</b>	
2	Service connection	8.00	
	<b>Sub-Total-2</b>	<b>8.00</b>	
3	Rural Electrification (General)		
a	Electrification of Hamlets/HB's/JC's/AC's/Thandas ect., (RGGVY)	0.21	
b	Energisation of IP Sets (GK)	20.00	
c	Kutir Jyothi	0.13	
	<b>Sub-Total-3</b>	<b>20.34</b>	
4	TRIBAL SUB-PLAN		
a	Electrification of Hamlets	0.00	
b	Energisation of IP Sets	0.00	
c	Kutir Jyothi	0.00	
	<b>Sub-Total-4</b>	<b>0.00</b>	
5	SPECIAL COMPONENT PLAN		
a	Electrification of Hamlets (BH/AC/JCs) /Thandas etc., (RGGVY)	0.45	
b	Energisation of IP Sets	1.75	
c	Kutir Jyothi	0.13	
	<b>Sub-Total-5</b>	<b>2.33</b>	
6	Tools and Plant and Computers	0.02	
	Civil Engineering Works	5.00	
	Metering.		
	Customer Metering.	5.00	
	DTC Metering	100.00	

	Transformer (Power & distribution. Replacement of faulty ones)	3.00	
	a) Construction of New Sub-stations lines	40.00	
	b) Augmentation of 33 KV Sub-station	0.00	
	c) Renovation of 33 KV S/s	0.00	
	Computerization		
	Providing micro controller (RLMS)	0.50	
	<b>Sub-Total-6</b>	<b>153.52</b>	
7	Drinking Water Supply	5.00	
	<b>Sub -Total -7</b>	<b>5.00</b>	
8	Regularization of unauthorized IP Sets	20.00	
	<b>Sub-Total-8</b>	<b>20.00</b>	
9	Niratarajyothi Scheme	100.00	
	<b>Sub-Total-9</b>	<b>100.00</b>	
10	SCADA works	3.00	
	<b>Sub-Total-10</b>	<b>3.00</b>	
11	<b>Rehabilitation Works</b>	10.00	
	<b>Sub-Total-11</b>	<b>10.00</b>	
	<b>Total (1 to 11)</b>	<b>529.67</b> <b>(crores)</b>	

## 6.0 Electrification Works:

6.01 Zero locations of Ashraya colony, Harijan Basthis, Thandas in GESCOM jurisdiction have been electrified.

6.02 1435 drinking water supply schemes were energized during 12-13.

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 and BPL installations and electrification of Habitations under the aegis of M/S. Rajiv Gandhi Grameena Vidyuthikaran Yojana at a cost of 122.96 Crores covering 2588 villages. RGGVY schemes sanctioned under Xth plan were completed during 2012-13

RGGVY scheme for Gulbarga district was sanctioned (which included newly formed Yadgir district) during 2008 at a revised cost of Rs.61.89 crores. The progress during the year 2012-13 is as follows:

1.Intensive electrification of villages : 0 Nos.

2.Electrification of BPL houses : 9770 Nos

3.Financial progress : 766.21 lakhs

Cumulative progress as at the end of March 2013 is as follows:

1.Intensive electrification of villages

Target : 1344 nos

Achievement : 1069 nos

2.Electrification of BPL houses

Target : 58973 nos

Achievement : 43825 nos

6.04 Progress achieved up to March-13 in respect of works under Special Government Schemes is as follows:

Sl. No	Scheme/Category	Installations serviced during 2012-13
1	IP Set (Under SCP & TSP)	153
2	BJ/KJ-BPL	157
3	Ganga Kalyan	4131
4	Electrification of Harijan Basthis/Janata Colonies etc.	0 (under RGGVY)

6.05 There were 287916 IP sets as on 31.03.2013.

6.06 The Company has identified 27282 un-authorized IP sets out of which 8909 are regularized and for balance work is under progress for regularization.

## 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 & 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 6802 installations have been metered during the year.
- b) 19365 non-recording meters were replaced and 7746 direct connection installations were provided with meters during the year.
- c) The Company has given a 'Revolving Fund' of Rs. 10 Lakhs each to all 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 The Company has taken up Energy Audit of urban DTCs 7809 DTCs in Towns and Cities) and 25% of rural DTCs (i.e 27620 DTCs in Rural Parts). Turnkey contracts have been awarded for metering of balance 2163 DTCs in urban area and 19338 DTCs in rural areas.

8.02 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.37.32 Crore and Part B for Rs. 200.79 Crore. Amount released under part A is 11.20 Crore and part B is Rs. 30.12 crore part 'A' is under implementation and also part 'B' work under progress.
- 9.02 **New Sub Stations:** The Company has commissioned 2 Nos. of new 33/11KV Sub Stations out of 10 proposals. The balance works are expected to be completed during 2012-13
- 9.03 **New DTCs: 3267** Nos. of Distribution Transformers of different capacities were added to the distribution system during 12-13 to bifurcate the Load, improve tailend voltage and to bring down the losses & also the failure rate. The total nos. of distribution transformer at the end of FY-13 are 56930 Nos. Transformer failure rate during the year was 23.32%.
- 9.04 **New Lines:** During the year 1377.019 km of LT lines were added to the system. Total length of 11 kV line and LT line at the end of year is 40423.93 kms and 76985.76 kms, respectively.
- 9.05 **HT to LT Ratio:** HT to LT ratio in GESCOM stands at **1:2.904**.
- 9.06 **Re-conductoring 33 KV Lines:** The Company has taken up re-conductoring of 86 Nos. of 33 KV Lines by replacing Rabbit ACSR by Coyote ACSR to reduce the line losses. Total 1715 Km of 33 line by re-conductoring work is taken up, out of which 70 Nos with the length 1358 Km work is completed and the balance work is dropped. An expenditure of Rs. 82.03 Crores is incurred.
- 9.07 **Re- conductoring 11 KV Lines:** Similarly, the Company has taken up measures in reducing the line losses in 11 KV lines also. 576 Nos. of 11 KV Feeders with a total length of 11,607 kms are proposed for replacement of assorted smaller size conductors like Squirrel/Weasel ACSR by Rabbit ACSR at an expenditure of Rs. 208.76 Crores. Out which 454 Nos with 9171 Km work is completed and balance work is dropped

## 10.0 Activities of Vigilance Wing:

- 10.01 In order to curtail the theft of energy, the Vigilance Wing has inspected 22297 installations during the year. Out of this, 8459 cognizable cases and 13838 non-cognizable cases were booked. The demand for back billing charges raised was to the tune of Rs.2804.14 lakhs out of which Rs. 564.03 lakhs was recovered. A compounding fee Demand of Rs. 361.04 Lakhs has been raised, of which Rs. 128.22 lakhs has been collected.

**11.0 Improvement Initiatives:**

- 11.01 All the 896 working GVPs were converted in to Micro Feeder Franchisees as per the guidelines provided under RGGVY scheme .
- 11.02 **Web based Total Revenue Management (TRM):** Web based total revenue management has been implemented in all the 40 Sub- divisions of GESCOM by N- Soft, Indian services Bangalore and M/s Infosys at CSD-II Gulbarga.
- 11.03 **Training Center at Corporate office:** A centralized in-house Training Center has been established at the Corporate Office GESCOM, Gulbarga and as on date 857 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](http://www.gescom.in) and links are provided to KPTCL and other ESCOMs and it is updated from time to time.
- 11.05 **Communication:** For the Corporate office and Gulbarga Division-I, Gulbarga Division-II, Raichur, and Bellary Divisional offices, broadband connectivity has been established and for all other Sub Divisional offices and Divisional, Circle and Zonal offices, 'dial up' connectivity has been established for communication and accessibility.
- 11.06 **ABT:** The IP link has been established between SLDC and GESCOM for real time display of Intra-State-UI flows. This make shift arrangement is to continue till such time a full fledged ALDC (Area Load Desp-atch Centre) is established in GESCOM, as per the directives of KERC.
- 11.07 **Customer Care Center:** A 24x7 Customer Care Center is established in Gulbarga to provide service to attend billing issues, Power supply issues, water supply new connections issues etc. The issues are referred to concerned official/Officers, resolution feedback is obtained and complaint is given feedback. The history of record is maintained.
- 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 GESCOM. The TRUs & Interface panels are erected at 50 sub- stations and work at Balance 36 sub-station is under progress. 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 **Any Time Payment (ATP):** Any Time Payment (ATP) kiosks have been successfully installed at 6 locations i.e 2 in Gulbarga City, 1 each in Bidar, Bellary, Raichur and Hospet for the benefit of Consumers.
- 11.13 **Video Conferencing facility:** Video Conferencing facility has been installed at Corporate Office, GESCOM, O&M Zone-Bellary and under V-Con Network of KPTCL. The Company has plans to extend this facility to O&M Divisions also.
- 11.14 **PC Penetration:** Computer System and Internet connectivity has been provided to all Sub divisional, Divisional, Circle, Zonal and Corporate Office of the GESCOM.
- 11.15 **Consumer Grievance Redressal Forum:** The Company has also Constituted a Consumer Grievance Redressal Forum, as mandated by the regulations issued by the Karnataka Electricity Regulatory Commission to address Consumer Grievances. The field officers have been asked to make all out efforts to comply with the Standards of Performance set by the KERC.
- 11.16 **Information under Right to Information Act:** The detailed information about the GESCOM has been available in GESCOM website has per at RTI Act, 2005.
- 11.17 **Local Area Network :** LAN has established at Corporate office and also extended to O&M Zonal Office Gulbarga 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).
- 11.18 **Remote Automatic Meter Reading:** Remote automatic meter 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 three LoTs. LOT-1:2782 Nos of DTC metering three towns of Bidar, Gulbarga and Raichur Towns amounting to Rs. 13.89 Crores. LOT -2: 1632 Nos of DTC metering in 22 towns amounting to Rs. 10.54 Crores. LOT-3: 6750 Nos of DTC metering in rural areas covering 25% of total DTCs, Amounting to Rs. 34.51 Crs, out of the awarded quantity 150 DTCs are pending for providing metering. Tendering is completed for balance 75% of rural DTCs also.

## 12.0 Future 'IT' Initiatives:

- Establishing Centralized Data Warehouse Server
- Establishing LAN and WAN Connectivity
- Geographical Information System (GIS)
- 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 31.03.2013 are as under:

Group	Sanctioned Strength	Working strength	No. of Vacant Posts	Remarks
A	306	234	72	
B	359	143	216	
C	3373	2082	1291	
D	4190	2462	1728	
Deputation Staff	77	58	19	Vigilance
<b>TOTAL</b>	<b>8305</b>	<b>4979</b>	<b>3326</b>	

## 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.

- 14.02 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.

### **15.0 Company's Plan for 2012-13**

- 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 10 numbers of 33/11 KV sub stations in its jurisdiction. For this, purpose the Company has tied up funds with M/s Rural Electrification Corporation Ltd., & M/s. Power Finance Corporation Ltd.
- 15.03 Further, the Company proposes to complete electrification of more than 250 Nos. Harijan Basthis/Thandas/Ashraya Colonies/Janatha Colonies etc, comprising of over 40187 BPL households for which, Turn Key Contracts have been issued under Rajiv Gandhi Grameen Vidyuti karana Yojana. During 12-13, 9583 houses have been provided with electricity.
- 15.04 The Company would like to install more ATP Kiosks to help consumers.
- 15.05 For accurate measurement of energy consumed and to facilitate energy audit, it is proposed to meter balance 75% of DTCs in rural area and 21 towns where are R-APDRP work is going on, tender has been called and award is issued to M/s OMNI AGATE System Private limited Chennai.
- 15.06 Detailed Projects Reports have been prepared for HVDS projects.
- 15.07 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.
- 15.08 To arrange uninterrupted 24 hours power supply to Non- agricultural loads of villages, new feeders are being drawn under Nirantara Jyothi Yojana, by observing the advantages of Nirantara Jyothi Grama Yojana of Gujarat State. Pilot scheme was taken up in Kustagi taluka of Koppal district at an estimate cost of Rs. 17.34 Crores, where in out of 13

feeders, 10 feeders are commissioned and 3 feeders works are under progress.

Further tender were called for 20 talukas under Phase-I on partial turnkey/Total turnkey basis, out of which detailed work awards are issued for 18 talukas, 11 talukas under PTK and 7 talukas under TTK and works were under progress.

1. For balance 2 taluks, tendering is under process. Out of 235 feeders, 49 feeders are commissioned 26 feeders work is completed 107 feeders work is under progress and 53 feeders work is to be taken up. Approximate cost of the project is Rs.286.89 Crs.
2. Under phase –II tenders are floated for 10 taluks approximate cost of the project RS. 153.80 for 5 taluks work is under progress on PTK basis and 3 taluks work is under progress on TTK basis for balance 2 talukas tenders are floated on TTK basis & tendering is under process. Out of 109 feeders, 9 feeders are commissioned 11 feeders are completed, 55 feeders works is under progress and 35 feeders work is to be taken up.

GESCOM Supplies major materials to partial turnkey works.

\*\*\*\*\*