

GULBARGA ELECTRICITY SUPPLY COMPANY LIMITED



ANNUAL PERFORMANCE REPORT FOR FY 2011-12

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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 10th year of operation.

1.02 The Transmission and Distribution Network through which power is supplied to the Company, as on 31-03-2012, consist of 125 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 31.03.12

a.	HT Lines (11 KV Lines)	:	37369.519	kms
b.	LT Lines (433/220 V Lines)	:	75608.745	kms
c.	11KV/433 V Distribution Transformers	:	53663	Nos

The Company has been able to achieve a ratio of 1:2.023 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 2350862 installations as on 31-3-2012 is as follows:

01	BJ/KJ	556208	09	Water Works (HT)	72
02	Domestic	1246358	10	Industrial (HT)	965
03	Commercial (LT)	184970	11	Commercial (HT)	235
04	IP Sets	278806	12	Lift Irrigation (HT)	148
05	Industrial (LT)	45576	13	Colonies (HT-4)	32
06	Water Supply (LT)	15303	14	KPCL	1
07	Street Light Circuits	10459			
08	Temporary	11729			

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Total (LT)	2349409	Total (HT)	1453
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Total Consumers : **2350862**

3.0 Purchase and Sale of Power:-

Power Purchase cost for FY 11-12 is Rs. 1780.02 Crores (Provisional)

Particulars	In MU
Power Purchase (at IF Point)	6961.00
Sales(Metered+Unmeterd)	5453.36
T&D Losses	1507.64
% Loss	21.66%

4.0 Revenue Demand and Collection:

The Consumer category wise Demand raised and Collection made during 11-12 is as follows:

(Rs in crores .)

Sl. No.	Category	Demand	Collection
1	LT-1 (BJ/KJ)	64.08	32.50
2	LT-2 (AEH)	269.69	264.39
3	LT-3 (Commercial)	144.16	143.40
4	LT-4 (IP)	1063.28	810.69
5	LT-5 (Industrial)	86.01	85.28
6	LT-6 (Water Supply & Street Lights)	161.99	59.36
7	LT-7 (Temporary)	20.74	22.06
8	HT-1 (Water Supply)	31.80	19.73
9	HT-2a (Industrial)	522.21	520.42
10	HT-2b (Commercial)	33.95	33.56
11	HT-3a (LI)	12.01	9.43
12	HT-4 (Colonies)	7.40	7.35
13	KPCL	0.95	2.93
	Total	2420.07	2011.1

5.0 Capital Expenditure:

5.01 Capital Expenditure proposed to be incurred during the FY-11-12 on various works is to the tune of Rs. 572.19 Crores. The category wise break up is as follows:

Sl. No.	Work (Scheme)	Budget Provision in Rs. Crores	Remarks
1	System Augmentation & Strengthening	4.15	
a	Extension & Improvement and Re conducting of 33 KV & 11KV	93.00	
b	Accelerate Power Development & reform Programme (APDRP)		
	a) Part A	18.00	
	b) Part B	150.00	
c	Replacement of faulty Distribution Transformers including power transformer	7.90	
	Sub-Total-1	273.05	
2	Service connection	27.17	
	Sub-Total-2	27.17	
3	Rural Electrification (General)		
a	Electrification of Hamlets/HB's/JC's/AC's/Thandas ect., (RGGVY)	0.45	
b	Energisation of IP Sets (GK)	1.05	
c	Kutir Jyothi	0.125	
	Sub-Total-3		
4	TRIBAL SUB-PLAN		
a	Electrification of Hamlets	0.00	
b	Energisation of IP Sets	0.00	
c	Kutir Jyothi	0.5	
	Sub-Total-4	0.50	
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	
	Sub-Total-5	2.33	
6	Tools and Plant and Computers	0.02	
	Civil Engineering Works	3.00	
	Metering.		
	Customer Metering.	12.00	
	DTC Metering	30.00	

	Transformer (Power & distribution. Replacement of faulty ones)		
	a) Construction of New Sub-stations lines	40.00	
	b) Augmentation of 33 KV Sub-station		
	c) Renovation of 33 KV S/s		
	Computerization		
	Providing micro controller (RLMS)	0.50	
	Sub-Total-6	85.52	
7	Drinking Water Supply	6.00	
	Sub -Total -7	6.00	
8	Regularization of unauthorized IP Sets	1.00	
	Sub-Total-8	1.00	
9	Niratarajyothi Scheme	150.00	
	Sub-Total-9	15.00	
10	SCADA works	5.00	
	Sub-Total-10	5.00	
11	Rehabilitation Works	20.00	
	Sub-Total-11	20.00	
	Total (1 to 11)	572.19 (crores)	

6.0 Electrification Works:

6.01 954 locations of Ashraya colony, Harijan Basthis, Thandas in GESCOM jurisdiction have been electrified.

6.02 476 drinking water supply schemes were energized during 11-12.

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 2010-11.

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 2011-12 is as follows:

- 1.Intensive electrification of villages : 209 Nos.
- 2.Electrification of BPL houses : 19607 Nos
- 3.Financial progress : 766.21 lakhs

Cumulative progress as at the end of March 2012 is as follows:

- 1.Intensive electrification of villages
 - Target : 1344 nos
 - Achievement : 1060 nos
- 2.Electrification of BPL houses
 - Target : 58973 nos
 - Achievement : 33030 nos

6.04 Progress achieved up to March-12 in respect of works under Special Government Schemes is as follows:

Sl. No	Scheme/Category	Installations serviced during 2011-12
1	IP Set (Under SCP & TSP)	12
2	BJ/KJ-BPL	255
3	Ganga Kalyan	4489
4	Electrification of Harijan Basthis/Janata Colonies etc.	954 (under RGGVY)

6.05 There were 278806 IP sets as on 31.03.2012.

6.06 The Company has identified 26485 un-authorized IP sets out of which 8239 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 11289 installations have been metered during the year.
- b) 52357 non-recording meters were replaced and 15055 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 (5891 DTCs in Towns and Cities) and 25% of rural DTCs (i.e 13673 DTCs in Rural Parts). Turnkey contracts have been awarded for metering of balance 3569 DTCs in urban area and 27012 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 part 'B' tendering is in progress.
- 9.02 **New Sub Stations:** The Company has commissioned 5 Nos. of new 33/11KV Sub Stations out of 12 proposals. The balance works are expected to be completed during 2012-13.
- 9.03 **New DTCs: 3518** Nos. of Distribution Transformers of different capacities were added to the distribution system during 10-11 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 11-12 are 53663 Nos. Transformer failure rate during the year was 23.32%.
- 9.04 **New Lines:** During the year 932.29 km of LT lines were added to the system. Total length of 11 kV line and LT line at the end of year is 37369.519 kms and 75608.745 kms, respectively.
- 9.05 **HT to LT Ratio:** HT to LT ratio in GESCOM stands at **1:2.023**.
- 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. An expenditure of Rs. 82.03 Crores is incurred. Out of which 70 Nos with the length 1358 Km work is completed and the balance work is dropped.
- 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 26663 installations during the year. Out of this, 12960 cognizable cases and 13849 non-cognizable cases were booked. The demand for back billing charges raised was to the tune of Rs.1642.06 lakhs out of which Rs. 480.37 lakhs was recovered. A compounding fee Demand of Rs. 348.03 Lakhs has been raised, of which Rs. 185.92 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 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 31.03.2012 are as under:

Group	Sanctioned Strength	Working strength	No. of Vacant Posts	Remarks
A	264	167	117	
B	344	202	142	
C	3320	2106	1214	
D	4386	2601	1785	
Deputation Staff	77	55	22	Vigilance
TOTAL	8411	5131	3280	

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 2011-12:

- 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 karanaYojana.
- 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 AGOTE 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.

Further tender were called for 20 talukas under Phase-I on partial turnkey basis, out of which detailed work awards were issued for 11 talukas and works are under progress. Fresh tenders are floated for balance 1 taluka tendered on TTK basiness, work under progress 4 talukas tendered on TTK basiness are under evaluation process for remaining 3 taluks tendered on TTK basses LOI to be issued. Approximate cost of this project is Rs.286.89 crores.

Under phase II tenders were floated for 8 talukas, for 5 talukas tendered on PTK basiness are work under progress and 3 talukas tendered on TTK basiness work under progress. Approximate cost of this project is Rs. 103.117 crores

Major materials is procured for PTK works
