

GULBARGA ELECTRICITY SUPPLY COMPANY LIMITED



ANNUAL PERFORMANCE REPORT FOR THE FY 2015-16

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 on 31-03-2016, consist of 131 Nos. of 33KV Substations, 22 Nos. of 66 KV Sub Stations, 106 Nos. of 110 KV Sub - Stations and 14 Nos. of 220 KV Sub - Stations.
- 1.03 The Company has following Distribution infrastructure, as on 31.03.16
- | | | |
|----|--------------------------------------|--------------|
| a. | 33 KV Line | : 2632.00kms |
| b. | H.T. Lines (11 KV Lines) | :52486.78kms |
| c. | L.T. Lines (433/220 V Lines) | :83058.63kms |
| d. | 11KV/433 V Distribution Transformers | :76884 Nos |

2.0 Operation:

2.01 The Company has a Consumer base of **27,54,376** installations as on 31-03-2016 the details is as follows:

01	BJ/KJ	596571	09	Water Works (HT)	123
02	Domestic	1487714	10	Industrial (HT)	1299
03	Commercial (LT)	229324	11	Commercial (HT)	434
04	IP Sets	332991	12	Lift Irrigation (HT)	257
05	Industrial (LT)	56063	13	Colonies (HT-4)	30
06	Water Supply (LT)	15922	14	KPCL	29
07	Street Light Circuits	12567			
08	Temporary	21043			

Total (LT) = 27,52,195

Total (HT) = 2181

Total Consumers = 27,54,37

3. Purchase and Sale of Power:-

Power Purchase cost for the FY 2015-16 is Rs. 2802.83 Crores (Provisional)

Particulars	In MU
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Power Purchase (at IF Point)	7993.77
Sales (Metered+ Un-metered)	6476.64
T&D Losses	1517.13
% Loss	18.98%

4. Revenue Demand and Collection:

The Consumer category wise Demand raised and Collection made during 2015-16 . the details is as follows:

(Rs in crores .)

Sl. No.	Category	Demand	Collection
1	LT-1 (BJ/KJ)	67.61	60.67
2	LT-2 (AEH)	466.66	447.29
3	LT-3 (Commercial)	226.16	219.58
4	LT-4 (IP)	1454.96	1456.17
5	LT-5 (Industrial)	104.61	103.06
6	LT-6 (Water Supply & Street Lights)	263.11	213.78
7	LT-7 (Temporary)	21.47	20.95
8	HT-1 (Water Supply)	48.79	67.28
9	HT-2a (Industrial)	693.82	696.13
10	HT-2b (Commercial)	60.06	59.82
11	HT-2c Education Institute	10.16	9.77
12	HT-3a (LI)	19.59	19.62
13	HT-4 (Colonies)	0.68	0.59
14	HT -5	6.19	6.47
15	KPCL	3.42	3.42
	Total	3454.92	3391.78

5. Capital Expenditure:

5.01 Capital Expenditure proposed to be incurred during the FY-15-16 on various works is to the tune of Rs. 515.00 Crores. The category wise break up is as follows :

Work Wise Capital Budget for the FY 2015-16

Rs. In Lakhs

SI No	Particulars	Total Budget FY 15-16 Rs In Lakhs
I	Mandatory works, Social obligations and other works	
a	GKS-SC (SCP)	960.00
b	GKS-ST (TSP)	560.00
c	GKS-BC	240.00
d	GKS-Min	240.00
	GKS Tot	2000.00
i	RGVY	2000.00
j	Rehabilitation of Flood affected villages (Special Programme)	500.00
k	Water Works	500.00
	Sub-Total	5000.00
II	Expansion of Distribution Network and System Improvement works.	
a	E&I works	
	Additional DTCs	
i	25 kVA	300.00
	63 kVA	175.00
	100 kVA	125.00
	Sub-Total	600.00
ii	Enhancement of DTCs	
	25kVA to 63kVA	200.00
	63kVA to 100kVA	100.00
	Sub-Total	300.00
iii	Shifting of existing transformers to load center	30.00
iv	LT Line Conversion of 1 Ph 2 wire or 1 Ph 3 wire to 3Ph 5 Wire.	40.00
v	Providing SMC Box to DTCs.	30.00
vi	Replacement of Broken poles	200.00
b	Energisation of IP Sets under General category	300.00
c	Service Connection works other than IP/BJ/KJ/Water works.	1500.00
d	Construction of new 33kV Stations.	1500.00
e	Augmentation of 33kV Stations	500.00
f	Construction of new 33kV Lines/Link Lines	200.00
g	Construction of new 11kV Lines for 33kV / 110kV Sub-Stations (Including SDP)	2000.00
h	Niranthara Jyoti Yojana	8000.00
i	RAPDRP Part-A	1000.00
j	RAPDRP Part-B	4000.00
k	Creating Infrastructure to UAIP Sets Regularized during 2010-12.	4000.00

	Sub-Total	24200.00
III	Reduction of T&D and AT&C losses.	
a	Providing meters to IP Sets above 10 HP	30.00
b	Providing meters to BJ/KJ .	40.00
c	Providing meters to Street Lights.	30.00
d	Providing Timer Switches to Street Lights.	100.00
e	Replacement of Faulty / MNR energy meters by static meters.	500.00
f	Shifting of meters to outside premises	100.00
g	DTC Metering of RAPDRP	0
h	DTC Metering of non RAPDRP	1000.00
i	Replacement of 33kV Line Rabbit Conductor by Coyote Conductor	100.00
j	11kV Re-Conductoring	500.00
k	LT Re-Conductoring	300.00
l	HVDS	10000.00
m	Taluka wise segregation of 11kV feeders	100.00
	Sub-Total	12800.00
IV	New Initiative Works	
a	IT Initiatives, Automation and Call Centers	500.00
b	Establishing ALDC & SCADA	50.00
c	R&M to SCADA	50.00
	Sub total	600.00
V	Replacement and other miscellaneous works	
a	Replacement of failed Distribution Transformers	5000.00
b	Replacement of Power Transformers	200.00
c	Replacement of Old and failed equipments and other works of existing 33kV Stations & Lines.	1000.00
d	R&M to 33kV Stations	100.00
e	R&M to 33kV Lines	100.00
f	R&M to DTCs	100.00
g	R&M to Lines	200.00
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)	500.00
i	T&P Materials	
	i) Furniture	100.00
	ii) Safety Materials	100.00
j	Civil Engineering works	100.00
	Sub-Total	7500.00

VI	Other Works as approved in Tariff Order 2013, for the Capex	
a	Providing ETV Meters	100.00
b	Providing HT Metering Cubicle	50.00
c	Providing ABC UG Cables & Lines	100.00
d	SCP & TSP Work	
	i) Energization of IP Sets	100.00
	ii) Electrification of HB's/JC's	50.00
	iii) KutiraJyothi	50.00
e	RE General Works	
	i) KutiraJyothi	50.00
f	Replacement of Electromagnetic meters by Static meters	100.00
	Sub-Total	600.00
	Grand Total (I+II+III+IV+V+VI)	51500

6. Electrification Works:

6.01 **Electrification of Rural areas** :12th plan RGGVY is under progress 1264 No's of Ashrayacolony, Harija Basthis, Thandas in GESCOM jurisdiction have been proposed during 2015-16. Electrification of these areas will be completed in the year 2016-17.

6.02 **Electrification of Drinking Water supply**: Total 1040 nos.of drinking water supply schemes were energized during 2015-16.

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 Rajiv Gandhi Grameena Vidyuthikaran Yojana.

RGGVY 12th plan scheme for Gulbarga district was sanctioned at a cost of Rs. 12.23 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.DWA issued on 1-9-2015.Survey work under progress. The work will be completed in the year 2016-17.

The project includes :

- 1.Intensive electrification of villages : 1264 Nos.
- 2.Electrification of BPL households : 26,518 Nos.

DPRs & estimate for DDUGJY plan for six districts of Kalburgi ,Yadgir, Bidar, Raichur, Koppal and Bellary were prepared and submitted to REC Bangalore vide T.O. Ltr. No. GESCOM/CEE(CP)/ EEE(NJ)/15-16/18500 Dtd: 10.07.2015 for an amount of Rs. 1432.05 Crs. Out of which Rs. 499.30 Crs(including PMA charges) was sanctioned to GESCOM under DDUGJY Project .

7. Progress achieved up to March-2016 in respect of works under Special Government Schemes is as follows:

Sl. No	Scheme/Category	Installations serviced during 2015-16
1	IP Set (Under SCP & TSP)	53
2	BPL (BJ/KJ)	0
3	Ganga Kalyan	3,051
4	Electrification of Harijan Basthis/Janata Colonies etc.	0

- 7.01 **IP sets** :There were total 3,30,873 Nos. of IP sets existing in the company as on 31.03.2016.

- 7.02 **Authorization of IP sets** : The Company has identified 17,105 nos. unauthorized IP sets out of which 10,797 nos. are regularized and balance 6,308nos. IP sets regularization work is under progress .

8.0 Metering:

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:

- Metering of BJ/KJ installations has been taken up on priority and 25400Nos. of installations have been metered during the year
- 11,448 Nos of non-recording meters were replaced and 1,762 Nos. direct connection installations were provided with meters during the year.
- The Company has giving fund to each O&M Divisions for procuring Energy Meters for:
 - Replacing MNR Meters
 - Providing Meters to DC installations
 - Providing 100 % Metering to BJ/KJ Installations

9.0 Energy Audit:

- 9.01 **DTC Metering**: The Company has total 11,197Nos. DTCs in Towns and Cities and 65,687 Nos. DTCs in rural. The Turnkey contracts has been awarded for metering and auditing of 8,483 Nos. DTCs in urban area and 49,011 Nos. of DTCs in rural areas .

9.02 **Periodic Calibration of Energy meters** : The Company has taken up periodic rating of installations as per KERC directives & the Company has created additional rating batches in MRT wing for calibrating of Meters.

10.0 System Improvement Works:

10.01 R-APDRP: This scheme was sanctioned for 21 towns in GESCOM. In that ,Part A sanctioned for Atomization of system of Rs.37.37 Crore, estimated Revised sanctioned amount dtd: 28-7-14 is Rs.34.11 Crs.and Part B for system improvement of sanctioned Rs. 200.79 Crore. Amount released under part - A is 19.19 Crore and Amount Released by PFC under part- B is Rs.30.11 Crs by PFC, Counterfund released by REC is Rs.52.62 Crs. part -A work is under implementation and also part-B work under progress.

10.02 New Sub Stations: The Company has commissioned 4 Nos. of new 33/11KV Sub-Stations out of 15 proposals. The balance sub-stations works are expected to be completed during the year 2016-17.

10.03 New DTCs: Total **4,246** Nos. of Distribution Transformers of different capacities were added to the distribution system during 2015-16 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-16 are 76,884 Nos. Transformer failure rate during the year was 15.72%

10.04 New Lines: During the year 2704.83 kms of HT Lines was added and 1331.63 km of LT lines were added to the system. Total length of 11 kV line and LT line at the end of year is 52486.78kms and 83058.63 kms respectively.

11.0 Activities of Vigilance Wing:

In order to curtail the theft & pilferage of electricity, the Vigilance Wing has inspected 9788 installations during the year. Out of this, 6267 cognizable cases and 980 non-cognizable cases were booked. The demand for back billing charges raised was to the tune of Rs.1088.45 lakhs out of which Rs. 660.73 lakhs was recovered. A compounding amount Demanded of Rs. 163.13 Lakhs has been raised,out of which Rs. 165.54 lakhs has been collected.

12.0 Improvement Initiatives:

12.01 Out of 999 GVPs (Gram vidyut pratinidhi) 919 Nos. of GVPs are working in GESCOM were entered in agreement of Micro Feeder Franchisees as per Company norms.

12.02 Web based Total Revenue Management (TRM): The Web based TRM has been implemented to all 51 Sub-divisions in Rural areas of GESCOM by M/s. N Soft (India) Services Pvt. Ltd., Bengaluru and for 21 RAPDRP towns by M/s Infosys, Bengaluru.

- 12.03 **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.
- 12.04 **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.
- 12.05 **Communication:** Broadband connectivity has been established and the availability of network connectivity is continuously monitored by deploying IT assistants.
- 12.06 **ABT:** The IP link has been established between SLDC and GESCOM for real time display of Intra-State-UI flows.
- 12.07 **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 for attending and also complaints registering by calling short code 1912 was provided. .
- 12.08 **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 & VSAT 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.
- 12.09 **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.
- 12.10 **Use of Hand held machines for Bill generation:** GVP's and meter readers are using the Hand held machines for Spot billing.Hence total billing process computerized.
- 12.11 **ON-LINE Bill Payment:** Commenced online bill payment facility from July-2014. Presently the facility for R-APDRP implemented 21 towns commenced and it will be proposed to extended to whole of GESCOM shortly.
- 12.12 **Video Conferencing facility:** Video conferencing facility is provided at Corporate Office, by taking dedicated lines from BSNL.
- 12.13 **PC Penetration:** Internet connectivity has been provided to Corporate Office/ Zonal Office/ Circle Office and Divisional Office by dedicated BSNL lease line.

- 12.14 **Consumer Grievance Redressal Forum(CGRF):** 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 quaters like Kalaburagi Bidar, Yadgir, Bellary, Raichur & Koppal. The complaints received & redressed at CGRF after formation in revenue districts are as follows. Total 23 cases are registered before CGRF & in that 1 cases have been disposed and 22 cases are pending as on 31.03.2016. The field officers have been asked to make all efforts to comply with the Standards of Performance set by the KERC.
- 12.15 **Information under Right to Information Act:** RTI applications are being forwarded to concerned officers immediately and continuously persuading to give satisfactory reply from the concerned. Because of the effort their was no adverse remark from commissioner RTI, Bengaluru.
- 12.17 **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)

13.0 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

14.0 Company staffs::

The details of manpower in various cadres as on 31.03.2016 are as under; after implementation of 371(J),HK region position posts are created group wise and vacancy filling and staffs appointment process under progress.

Group	Sanctioned Strength	Working strength	No. of Vacant Posts
A	338	218	120
B	383	280	103
C	3471	2080	1391
D	6061	3390	2671

Deputation Staff	77	63	14
TOTAL	10330	6031	4299

15.0 Challenges/Problems faced by the Company:

- 15.01 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.
- 15.02 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.
- 15.03 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.
- 15.04 **The Company has following material Procured in the year 2015-16**
The amount for Total Line Material procurement in the year 2015- 16 is Rs.104.72 crores and Transformer procurement in the year 2015-16 is Rs. 109.55 crores expenses.

16.00 Company's Plan for 2015-16

- 16.01 The Company endeavors to bring down the energy losses and provide better quality of power supply to the consumers.
- 16.02 The Company plans to establish 12 numbers of 33/11 KV sub stations in its jurisdiction.
- 16.03 The Company would like to install more ATP Kiosks to help consumers for bill electricity payment.
- 16.04 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.

17.06 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 Abstract showing Progress of Nirantara Jyothi Yojane as follows:

Sl. No	Phase	No. of taluks	No. of proposed NJY feeders	No. of villages covered	Total project cost Rs. in Crs	Total awarded cost	Expenditure Booked	No. of feeders Commissioned	No. of feeders Completed	Work under Progress
1	Phase-I	20	235	2765	286.89	338.74	372.02	170	13	52
2	Phase-II	10	109	1087	153.8	169.94	145.68	74	11	24
Total		30	344	3852	440.69	508.68	517.70	244	24	76

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.

18.00 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.
- ◆ 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.
- ◆ Replacement of 3ph 3 wire meters with 3ph 4 wire DLMS protocol energy meters along with HT Metering Cubicle is taken up in the 21 towns of RAPDRP area in the first phase

18.01 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.
- ◆ Strategic business unit is being implemented in 11 Sub Division.

- ◆ Proposed to install automated transformer testing facility in all 4 O&M Circle headquarters.
- ◆ **DSM Measures:**
- ◆ Orders placed on M/s ESL for replacement of one lakh incandescent bulbs with LED.
- ◆ Replace conventional Agri Pumps with energy efficient pumps in Bidar Division as Pilot Project.

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