



GOVERNMENT OF KARNATAKA

DEPARTMENT OF ENERGY

ANNUAL REPORT

1994-95

DEPARTMENT OF ENERGY

The Department of Energy was established in May 1989 by bifurcating Electricity from the Department of Public Works and Electricity, Department. During October 1993, Non Conventional Energy has also been entrusted to the Energy Department. With these changes the following items come under the purview of the Department of Energy.

1. Power generation
2. Power transmission and distribution
3. Non Conventional energy (except rural energy coming under RDPR Department)

The following Organisations and departments come under the administrative control of Department of Energy

1. Karnataka Power Corporation
2. Karnataka Electricity Board
3. Department of Electrical Inspectorate

The Achievements of the Department of Energy and its organisations in the year 1994-95 and the programmes for the year 1995-96 in power generation, transmission and distribution and non conventional energy are indicated in the subsequent paragraphs.

In Karnataka Power is being generated both in the public sector and private sector. K.P.C. and K.E.B. are the major power generators.

KARNATAKA POWER CORPORATION LTD

ANNUAL ADMINISTRATIVE REPORT
FOR THE YEAR 1994-95

1.00 PREAMBLE :

The Karnataka Power Corporation Ltd is a wholly owned Government of Karnataka Undertaking entrusted with the responsibility of investigation, construction, operation & maintenance of power projects in the State of Karnataka. The installed capacity of the Corporation at the beginning of the year was 2916.15 MW. During the year, Raichur Thermal Power Station (210 MW) was successfully put on commercial run. Apart from the Operation & Maintenance of different power stations, the Corporation is executing several power projects. The status of works in these projects is briefly described below :-

2.00 OPERATION AND MAINTENANCE OF
POWER PROJECTS:

2.01 The Corporation has in operation 12 nos. of Hydro and One Thermal Power Plant with a total installed capacity of 2916 MW. The energy planned to be produced during 1994-95 from all the Power Stations is 13069 MU against which

World Bank. The World Bank have cancelled their assistance from 1.8.93. The balance works are taken up from the Plan assistance. The date of completion of Kadra dam was revised with a view to store water in Kadra dam upto EL 25 M during June 1995 so as to facilitate drawal of water for the testing of circulating system of Kaiga Plant as per NPCL requirements.

The amount spent for Kadra Dam and Power House upto Dec.'94 is Rs.185.00 crores against the estimated cost of Rs.260 crores. First unit of 50 MW is programmed to be commissioned during Aug.'96.

The total estimated cost for Kodalalli Dam & Power House is Rs.186 crores and upto Dec.'94, an amount of Rs.85.00 crores has been spent. The commissioning of the 1st unit is programmed to be completed by April 1997.

3.03 GERUSOPPA HYDRO ELECTRIC PROJECT (4 X 60 MW):

Gerusoppa Hydro Electric Project (4 X 60 MW) is a tail race scheme on Sharavathi river d/s of SGS. It envisages generation of power through water released from SGS and from a small

commissioning of 1st unit is programmed for 1998-99.

3.04 BHADRA RIGHT BANK CANAL POWER HOUSE:

The Bhadra scheme involves installation of additional unit of 6 MW on Bhadra Right Bank Canal Power House. The total estimated cost of Bhadra Right Bank Canal Power House is Rs.14.53 crores and upto Dec. 1994, an amount of Rs.0.70 crore has been spent. Financing for this project will be met out of plan assistance.

3.05 BRINDAVAN SMALL HYDEL SCHEME:

The Brindavan Small Hydel Scheme consists of installation of 2 Units 6 MW each. The total estimated cost of Brindavan Scheme is Rs.34 crores and upto Dec. 1994, an amount of Rs.2.90 crores has been spent. The project is under financial assistance from OECF through REC. Both the units of this scheme will be commissioned during the early part of 9th Plan.

4.00 RENOVATION

4.01 SHARAVATHI GENERATING STATION

The Sharavathi Generating Station has 10 units each of 89.1 MW. The units

drop schemes on Tungabhadra Left Bank Canal in Raichur district were identified and undertaken. These schemes are (1) Kalmala (0.4 MW), (2) Ganekal (0.35 MW), (3) Sirwar (1 MW) and (4) Mallapura (2x4.5 MW). While Kalmala and Sirwar were commissioned during 1990 and 1992 respectively and Ganekal and Mallapur were commissioned during 93-94.

6.00 FINANCE :

The Revised plan outlay for 1994-95 for capital works is Rs.297 crores. The Govt of Karnataka has so far released Rs.32.35 crores during the year. KPC has also been sanctioned a term loan of Rs.40.13 crores by LIC during the current year. IDBI has sanctioned Rs.20 crores under the bill Re-discounting scheme. A line of credit of Rs.3 crores has been sanctioned by M/s HDFC for funding the House Building Advance Scheme of the Corporation. The Fixed Deposit Scheme of the Corporation was continued during the year and an amount of Rs.38.79 crores received as deposits to the end of December 1994. In all 132 crores has been drawn as loans during the year and out of which a sum of Rs. 33.32 crores has already been repaid. The Corporation has also drawn Rs.30 crores loan from M/s VISL for the Kadra Project.

4. New Schemes

(Advance action):-

a) Hydro	816	
b) Thermal	14200	

Total ...	37600	
	+	838 PFC

The Ongoing Projects include Kadra & Kodalalli, Gerusoppa, Brindavan and Bhadra Right Bank Hydel Projects and RTPS Unit 4 works. New Schemes on which advance is proposed are Mulki Dam, Sarpadi, Shivasamudram, Almatti, Mahadayi, Gangavali, Dandeli, Jurala, Singur, Varahi Stage II, Mini/Micro Hydels and RTPS Units 5 & 6.

During 1995-96 it is expected to add 28.8 MW by uprating the balance 2 units of SGS.

8.02 The planned generation from KPCL Stations during 1995-96 is 14804 MU i.e., 5002 MU from Thermal and 9802 MU from Hydel sources. Total revenue from sale of energy is expected to be about Rs.991.54 Crores. O&M expenses is estimated to be Rs.125.68 Crores and that of fuel charges to be Rs.421 Crores. Payment of interest and royalty and repayment of principal to creditors are expected to total Rs.470.36 Crores.

actual generation upto Dec.'94 was 11248.82 MU. At the end of Dec.'94 we have generated additionally 1646.8176 MU of energy, surpassing the target fixed of to that period. It was possible to surpass the targetted energy production due to the efficient operation and maintenance aided by good monsoon showers.

3.00 ONGOING PROJECTS :

3.01 RTPS STAGE-II UNIT-4 (1X 210 MW):

RTPS Stage-II Unit-4 (1 X 210 MW) is being financed by OECF, Japan. The total estimated cost of RTPS Unit-4 is Rs.670.50 crores and upto Dec. 1994, an amount of Rs.533 crores has been spent. The unit was synchronised during September 1994 and was commissioned on coal and full load was reached in Jan.'95.

3.02 KALINADI HYDRO ELECTRIC PROJECT STAGE-II :

Out of three schemes of Kali River Stage-II works on two schemes viz., Kodalalli Dam and Power House (3x40 MW) and Kadra Dam & Power House (3 x 50 MW) were undertaken from 1988 with the financial assistance from KFEED and

independent catchment area. The scheme comprises of construction of a concrete dam and a power house at its foot. The work on the construction of dam and power house started from 1988 with the financial assistance from World Bank. From the beginning, Gerusoppa Project is facing problems from environmentalist. The Govt of India had also revoked its earlier orders according environments clearance to this project by its letter dated 31.7.1992. The World Bank have also cancelled their assistance from 1.8.1993.

With further studies on environment issues and persuance, MOEF/GOI in their order dtd 8.11.93 have communicated their fresh approval for releases of 700 Ha of forest land for the project. Accordingly, Govt of Karnataka vide GO dtd 1.12.93 have also issued orders for the release of 700 Ha of forest land for the project. In view of the orders received from MOEF/GOI and Forest Department, Govt of Karnataka, Supreme Court was requested for the withdrawal of special leave petition filed by KPCL earlier. Supreme Court, vide their order dtd 7.1.94 have granted permission to withdraw the special leave petition. The total estimated cost of the project is Rs.232 crores and upto Dec.'1994, an amount of Rs.76.33 crores is spent. The

have been in operation for the past 30 years. In view of the improved technology now available and the service already rendered by these units, uprating of the units has been taken up. This results in raising the installed capacity of each machine from 89.1 MW to 103.5 MW and the Station as a whole would add 144 MW of generating capacity. The renovation is proposed to be brought in progressively unit after unit. Units 1 to 8 are already completed. The work on Units No.9 & 10 is under progress and renovation is expected to be completed during 95-96.

4.02 NAGJHARI POWER STATION :

There are Six units of 135 MW each and the first three units with BMGT coils are proposed to be uprated by replacement of Epoxy coils. The uprating is being carried out by M/s BHEL for Unit No.2. The work is expected to be completed during this financial year. The uprating of balance two units will be taken up after the observations of the performance of Unit-2.

5.00 MINI HYDELS :

With a view to harness the canal flows for power generation, four canal

7.00 PERSONNEL & INDUSTRIAL RELATIONS :

During 1994-95, Industrial Relations were by and large peaceful. Ex-gratia of 8.33%(limited to Rs.1600/-) in lieu of bonus was paid to all employees of the Corporation.

8.00 PROPOSED PLAN OF ACTIVITIES IN 1995-96

8.01 The Corporation proposes to continue the execution of balance works of commissioned projects and ongoing projects. The capital expenditure is estimated at Rs.384.38 Crores. In order to maintain the tempo of works and keep up with the works of commissioning of the ongoing projects, especially those which were being financed earlier by external agencies and also taking into account the spill over payment of previous years, the need based requirement of funds of Rs.37600 lakhs (+838 PFC) has been provided in the 1995-96 Budget and the main breakup of which is as follows:

Rs. in lakhs

1. Completed Schemes	879
2. Ongoing Schemes	24280+838(PFC)
3. Deposit Contribution works	485

PRIVATE SECTOR PARTICIPATION IN POWER DEVELOPMENT :

Keeping in view the ever growing industrial development State Government had taken a decision during 1988 to raise the installed capacity of the State to 7200 MW with corresponding energy capability of 35000 MU by 2000 AD. However, recently, on review of the demand for power in the agricultural and industrial sector it was felt by Govt that a total installed capacity of 9000 MW would be necessary by 2000 A.D. Thus it has become necessary to take urgent steps to ensure additional generation capacity of atleast 4000 MW of Power. Considering the magnitude of this proposition costing about atleast 15000 to 17000 Crores, it will not be possible to achieve this by Govt Sector alone in view of financial constraints. Hence private sector participation is permitted by State Government in various areas of Power development covering Thermal, Hydro, Solar, Wind etc. The various incentives offered for the Private Entrepreneurs for encouraging investment in Power Sector. As on today, one hydro project operated by Private Sector of 18 MW capacity is generating power in the State.

Further, major thermal & hydro, DG sets, Micro/Mini/Small and Wind energy projects aggregating to 4409.6 MW which have been allotted/MOUs signed with various private parties for power development in Karnataka are as follows:-

Sl. No.	Name of the Project	Cap.in MW	Name of the Firm
THERMAL/DG SETS :			
1.	Hospet TPS	500	HOK Inter-continental Ltd
2.	RTPS 5 & 6	500	PPI
3.	Mangalore TPS	1000	Cogentrix
4.	TPS at Bellary	300	Jindal
5.	TPS at Mangalore	360	Jaiprakash Engg. & Steel Co.Ltd.
6.	Devanagonthi White Field	76	Independent Power Services Corpn.
7.	Hoodi, B'lore	40	Khoday India Ltd
8.	Kolar, Indi, Bidar & Jamkhandi	80	HMG Power Ltd.
9.	Bijapur	150	KEI Energy
10.	Koppal	50	Kirloskar Oil Engine Ltd.
11.	Tubinakere, Mandya	130	India Power Partners
12.	DG at Peenya	50	Subhash Projects & Marketing
13.	DG at Tumkur	50	-do-
14.	Multifuel TPS at White Field	200	Karnataka Breweries

Sl. No.	Name of the Project	Cap.in MW	Name of the Firm
HYDEL (MAJOR/MEDIUM):			
1.	Almatti Dam PH	600	The Asia Power Co.
HYDRO (MICRO, MINI/SMALL)			
1.	Shivapur MHS	18	Bhoruka Power Corpn.Ltd.
2.	Shahapur MHS	5.95	-do-
3.	Rajankollur NLBC	1.3	-do-
4.	Kumaradhara	48	-do-
5.	Varahi IDPH	15	-do-
6.	Anveri MHS	1.3	Dandeli Steel & Ferro Alloys Ltd.
7.	Tunga Anicut	20	-do-
8.	Malaprabha RBC	2	TSP Ltd.
9.	Attihalla	0.35	Yuken India Ltd.
10.	Tippagondanahalli	0.15	-do-
11.	Vrishabavathi Sites A & B	0.25	-do-
12.	Shiva MHS	3	Cauvery Hydro Energy
13.	Dhupdal MHS	2.8	Gokak Mills Ltd.

Sl. No.	Name of the Project	Cap.in MW	Name of the Firm
14.	Nugu MHS	2	North East Energy
15.	Harangi LBC	4.5	-do-
16.	Link Canal MHS	1.5	Graphite India Ltd.
17.	Chunchanakatte Scheme	15	-do-
18.	Madhavamanthri Anicut	3.5	M/s Rukmini Steel Industries Ltd
19.	Cesvy MHS	6.5	C.V. Mathew Charayil
20.	Varahi Tailrace	15	The Sandur Manganese & Iron Ores
21.	Hemavathi LBC	15	-do-
22.	Keerthihole	21	Subhash Projects & Marketing Ltd.
23.	Rabini DPH	20	-do-
24.	Hemavathi RBC	2	-do-
25.	Narayanapur LBC	9	Murudeshwar Power Corpn.
26.	Anandka	9	Arvind Mills
27.	Holalu	0.5	Aparna Alloys Pvt.Ltd.
28.	Payashwini	3	Thermit Alloys Pvt.Ltd.

Sl. No.	Name of the Project	Cap.in MW	Name of the Firm
29.	Upper Kaneri	3.5	Gujarat Spinner Ltd.
30.	Lakshmantheertha	3	Jayashree Industries Ltd.
31.	Bhadra LBC	1.5	Arun Engg.Group
		253.6	

WIND ENERGY :

1.	Kappatagudda	5	Vestas RRB Ltd.
2.	Kappatagudda	2	Doddannavar & Brothers
3.	Jogimath	5	NEPC Micon Ltd.
4.	Jogimath	5	Graphite India
5.	Jogimath	5	Consolidated Energy Consultancy Pvt.Ltd.
6.	Gokak Hills	2	Gokak Mills Ltd.
7.	Kappatagudda Hills	5	Subhash Projects & Marketing
8.	Kappatagudda Hills	5	Tripower Energy System
9.	Jogimatti	5	-do-
10.	Kappatagudda	2	Muhlen Bau Eqpt. Ltd.

Sl. No.	Name of the Project	Cap.in MW	Name of the Firm
11.	Bommanahalli	2	M.C.C Ltd.
12.	Kappatagudda	2	BHP Engrs.
13.	Kappatagudda	2	Subhadra Textiles
14.	Kappatagudda	2	Wipro Financial Services Ltd.
15.	Bababudangiri Hills	5	Triveni Engg. Works Ltd.

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OTHERS :

1.	Plant using Agricultural waste etc. at Belgundi	16	Global Energy Ltd.
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TOTAL CAPACITY 4409.6

KARNATAKA ELECTRICITY BOARD

- 1.00 The Karnataka Electricity Board is mainly entrusted with the responsibility of transmission and distribution of power to all the consumers of the State except in Hukkeri Taluk of Belgaum District, where this work is managed by the Hukkeri Taluk Rural Electric Co-operative Society.

In addition, Board is owning and operating following Five Generating Stations.

1. Shivasamudram
2. Shimsha
3. M.G.H.E., Jog
4. Munirabad
5. Yelahanka Diesel Generator Plant

The sources of power to the Board are

- a) From the above Five Generating Stations and State's share of power from Thungabhadra Dam Power House.
- b) Generating Stations owned and operated by M/s. Karnataka Power Corporation Limited. The Board is purchasing the energy from M/s. K.P.C. Ltd., at the rates fixed by the State Government.
- c) Board is also availing its share from the Three Central Sector Power Projects in the Southern Region Viz., Ramagundam Super Thermal Power Station, Madras Atomic Power Plant and Neyveli Lignite Corporation Station.

The following table gives the details of power generated and imported during the year 1993-94 and 1994-95 (Upto the end of December 1994)

YEAR	Installed capacity in MW both KEB and KPCL	Energy Generated (including auxiliary consumption in MUs)	Energy Imported in MUs**
1993-94	3260	14285	3530
1994-95	3470	12109 *	2284 *

* Upto the end of December 1994.

** This includes State's share from Central Sector Power Projects.

During the year 1993-94, 14044.32 MUs of energy was sold to the different categories of consumers within the State. During the year 1994-95, 15123 MUs (provisional) of energy is expected to be sold to different categories of consumers.

The Board's programme of works for 1994-95 contemplates an outlay of Rs. 281.17 Crores under plan and Rs. 162.20 Crores outside the plan. Details for the past two years (1992-93 and 1993-94) and also for 1994-95 are furnished in the table below:

YEAR	PLAN (Rs. in Crores)	OUTSIDE PLAN (Rs. in Crores)	TOTAL (Rs. in Crores)
1992-93	238.39	276.87	515.26
1993-94	316.08	95.08	411.16
1994-95	281.17	162.20	443.37
	(Revised Estimate)	(Revised Estimate)	

The outside plan funding includes assistance from REC Ltd., New Delhi, under their SPA and other programmes and partly funded by Commercial Banks under NABARD refinance. Further, this also includes the loan assistance from French Government through Power Finance Corporation for establishing 120MW D.G. Plant at Yelahanka near Bangalore, and loan assistance from PFC/ADB for construction of Transmission lines, Sub-Stations, Urban Distribution Improvement Scheme etc., and System Improvement Works.

1.01 TRANSMISSION LINES AND STEP DOWN STATIONS :

The Transmission and Distribution Net Work needs to be expanded and improved in order to meet the growing demand for power and energy. Board is giving maximum attention in this direction. New transmission lines are being drawn and new sub-stations are being established every year. Wherever necessary, capacitor banks have also been established which ensures good voltage profile to the consumers. On the 11kV side express feeders have been drawn and re-location of transformer centres, reinforcement of conductors etc., System Improvement works have been taken-up.

During 1994-95 a provision of Rs. 154 Crores (plan) was made for construction of new transmission line and sub-station works and for enhancement of capacities of the sub-stations. This includes Rs. 57.59 Crores for construction of transmission lines and sub-stations under erstwhile World Bank Projects. Progress during 1994-95 is furnished below :

TRANSMISSION LINES :

Voltage KV	Circuit length in Kms. as on 31-3-94	Achievement during the year 1994-95 (as at the end of Dec. 1994)
400	334.00 (charged at 220 kv)	372.00 (charged at 220 kv)
220	5986.10	150.00
110	5027.65	113.60
66	4223.70	311.74
33	5044.55	117.80
Total	20616.00	1055.24

SUB-STATIONS :

Voltage in kv	No. as on 31-3-1994	Achievement during 1994-95		Total M.V.A.
		New No.	Modified No.	
220	20	3	1	355.00
110	81	1	15	155.00
66	142	11	20	220.40
33	172	5	2	35.00
Total	415	20	38	765.40

**1.02 PROJECT EXECUTED UNDER FINANCIAL ASSISTANCE
FROM THE WORLD BANK :**

World Bank had sanctioned loan totalling to about 261.2 Million U.S. Dollars (Rs. 667 Crores) to KEB for two projects KPP-I and KPP-II. KEB has completed and commissioned one 400 kv line and four 220 kv lines and four 220 kv stations. Several 400 kv/220 kv Station and line works are also under progress. Total expenditure incurred upto the end of Nov. 1994 is Rs. 267.29 Crores.

The above loan was under suspension since 8.4.93 and subsequently cancelled since 26.10.1993. In view of this Board has taken steps to execute the uncompleted works through plan funds.

Further, Board has approached Asian Development Bank through PFC to finance for strengthening the Transmission and Distribution net work and also to improve the Distribution system in about 22 important cities of the state.

Asian Development Bank has sanctioned schemes worth Rs. 442 crores through PFC and Board has taken action to execute all these works in two phases.

During 1994-95, a sum of Rs. 57.59 crores has been allotted



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for the erstwhile World Bank Aided Projects and for 1995-96 a sum of Rs. 35 crores has been allocated.

Karnataka Electricity Board has established a Diesel Generating Stations of 120 MW capacity at Yelahanka near Bangalore, at a cost of Rs. 249.60 crores as at the end of December 1994. Loan Assistance given by French Government for this project was availed through Power Finance Corporation.

Further, Loan Assistance has been availed from the Power Finance Corporation for installing shunt capacitors of 607 MVAR capacity, modernisation of Load Despatch Centre at Bangalore, improvement of Urban Distribution Network in Bangalore City and these works are being executed.

1.03 ELECTRICITY CONSUMPTION :

Despite shortage of power, power supply to new installations was continued to be extended. Total No. of New Installations serviced during the year 1993-94 was Rs. 3.51-lakhs. Numbers of IP Set serviced has been significant and continued to be on the rise every year.

Details of No. of New Installations serviced during the year 1994-95 upto the end of October 1994 is furnished below

Category	Installations added dur. 1993-94	Installations added during the year 1994-95 (upto the end of Oct. 1994)
Domestic Lighting	2,00,796	1,11,109
All Electric Home	61,832	39,028
Commercial Lighting	28,741	17,653
L.T. Power	9,415	6,417
H.T. Power	83	60
Water Works (LT Power)	2,958	1,650
I.P. Sets (including I.P. Sets serviced by Hukkeri Rural Electric Co-op. Society)	47,865	29,890
Total	3,51,690	2,05,807

The total No. of different category of Electricity Consumers of Board as at the end of Oct. 1994 is 66.38 Lakhs.

1.04 HAMLET ELECTRIFICATION :

During the year 1994-95 it is targeted to electrify 400 Hamlets. 190 Hamlets have been electrified upto the end of Dec. 1994. Total number of Hamlets electrified as on 31-12-94 is 9635.

1.05 ENERGISATION OF I.P. SETS :

During the year 1994-95 it is targeted to energise 60,000 I.P. Sets. Board has already energised 38,392 I.P. Sets as at the end of Dec. 1994. During this year Hukkeri Taluk Rural Electric Co-operative Society has energised 472 I.P. Sets in Hukkeri Taluk.

1.06 BHAGYA JYOTHI SCHEME :

Bhagya Jyothi Scheme was commenced in the State during the year 1979-80. The scheme envisages extending one bulb connection to the house holds of the weaker sections of the Society in already electrified villages. During the year 1994-95, it is targeted to extend the facility to 1000 house holds per each Rural Assembly Constituency. 1,14,459 beneficiaries (provisional) have been given connection upto the end of Dec. 1994. Total number of beneficiaries under this scheme in the State as on 31-12-1994 is 8,77,893 (provisional).

1.07 ELECTRIFICATION OF HARIJAN BASTHIES, TANDAS AND JANATHA COLONIES :

During 1994-95, it is targeted to Electrify 470 Nos. Harijan Basthies/Tandas/Janatha Colonies against which upto the end of Dec. 1994, 644 Harijan Basthies/Tandas/Janatha Colonies have been electrified. As on 31-12-1994, 8388 Harijan Basthies/Tandas/Janatha Colonies have been electrified;

As on 31-3-1994, REC Ltd., had sanctioned schemes for electrification of 8580 Harijan Basthies/Tandas and Janatha

Colonies out of which 7303 Harijan Basties/Tandas/Janatha Colonies have been electrified upto 31-12-94. During 1994-95 till Dec. 1994 REC Ltd., has not sanctioned any schemes.

1.08 SPECIAL COMPONENT PLAN :

Under this scheme, I.P. Sets belonging to Schedule Caste applicants only are energised. During 1993-94, 3050 I.P. Sets were energised under this programme. During 1994-95 upto the end of Dec. 1994 1518 I.P. Sets (Provisional) have been energised.

1.09 TRIBAL COLONIES ELECTRIFICATION UNDER TRIBAL SUB-PLAN (STATE PLAN)

Upto the end of 31-3-1994, 520 Nos. of Tribal Colonies have been electrified. During 1994-95, it is targeted to electrify 50 Tribal Colonies, against which 30 Tribal Colonies have been electrified upto the end of December 1994. Cumulative total number of tribal colonies electrified as on 31-3-94 is 550. These Tribal Colonies are situated in the Districts of Chickmagalur, Dakshina Kannada, Mysore and Kodagu.

1.10 RURAL ELECTRIC CO-OPERATIVE SOCIETIES :

The Economic and Planning Council has recommended formation of Rural Electric Co-operative Societies in the State so that the Electrification of particular area in Rural Part is done efficiently and expeditiously. The Hukkeri Taluk Rural Electric Co-operative Society is already functioning in the

State and is looking after distribution of power to the Electricity consumers of Hukkeri Taluk in Belgaum District by purchasing power from the Board at bulk rate. Further, two more Rural Electric Co-operative Societies, one at Aland Taluk in Gulbarga District and the other is Hadagali Taluk in Bellary District have been sanctioned and further action is being taken.

1.11 ENERGY AVAILABILITY AND POWER CUT :

During the year 1994-95, unrestricted energy requirement in the State is of the order of 22,000 M.U. and estimated availability from all source i.e., KEB's Generation, power purchase from K.P.C. Ltd., State's share from Central Power Projects and imports from neighbouring States is of the order of 19.420 M.U.

There was no power cut on any category of consumer in the State with effect from 10-6-1993 until 8-3-1995. Due to steep increase in peak demand, 25% demand cut has been introduced from 8-3-95 on all H.T. consumers with contract demand of 251 KVA and above. This will be in force upto 15.4.95.

1.12 PILFERAGE OF ENERGY :

With a view to check the pilferage of energy, the Vigilance Squad has been strengthened and the same is headed by a Chief Engineer, Electy. (Technical Audit and Quality Control) and Deputy Inspector General of Police assisted by two Superintendents of Police (one at Bangalore and the other at Hubli) and four Executive Engineers, Elecl., Technical Audit Cell (at Zonal Head Quarters).

During the year 1994-95 upto the end of Dec. 1994 surprise checks were carried out on 21,134 installations. 53 Nos. of cognisable offences were detected during this period and total amount involved in these cases is Rs. 69.41 Lakhs. 2537 Nos. of Non-cognisable offences were also detected during this period and total amount involved in these cases is Rs. 325.32 Lakhs.

1.13. PROGRAMME FOR 1995-96

The plan allocation for the financial year 1995-96 is Rs. 304.00 Crores for the plan works of KEB and Rs. 287.00 Crores for works outside plan. The plan programme envisages (a) completion of on going projects of VII Plan period (b) execution of Transmission Lines and sub-station works of VIII Five year plan (c) Implementation of extension and improvement works and energy conservation schemes (d) commencing the works of Master Plan Schemes for Major Towns and Cities and (e) Implementation of Rural Electrification Programme i.e., Electrification of Hamlets, Harijan Basthies and Tribal Colonies and Bhagya Jyothi House holds and also Energisation of I.P. Sets.

For the Year 1995-95 also KEB has plans to continue the Rural Electrification Programme and energisation of I.P. Sets along with extending Bhagya Jyothi connection to rural poor as per the targets and guidelines to the fixed by Government.

ANNEXURE-I

**DETAILS OF GENERATING STATIONS
WHICH ARE UNDER THE CONTROL OF KEB**

	Name of the Generating station	Installed capacity in MWS	Energy Generation during 93-94 in MUS	Energy Generation during 1994-95 (upto the end of Dec.94) in MUs
1.	K. Seshadri Iyer Hydro Electric Generating Strn., Shivasamudram.	42.00	91	69
2.	Shimasha Hydro Electric Generating Station	17.20	96	70
3.	M.G.H.E. Jog	120.00	492	360
4.	Munirabad Power House	27.00	93	75
5.	T.B. Dam Power House (20% share of Karnataka)	14.40	39	30
6.	D.G. Plant Yelahanka	127.80	147	254
	TOTAL	348.40	958	858

Details in respect of Generating Stations owned and operated by M/s.K.P.C. Ltd., will have to be furnished by K.P.C. Ltd.,

ANNEXURE-I

**DETAILS OF STATE'S SHARE OF
POWER FROM CENTRAL SECTOR PROJECTS**

(In Million Units)

Sl.No.	Projects	Actually received during 93-94	Actually received during 1994-95 (upto the end of Dec. 1994)
1.	Ramagundam Super Thermal Power Station.	2274	1359
2.	Neyveli Lignite Corporation	1057	677
3.	Madras Atomic Power Plant	171	232
Total		3502	2268

ELECTRICAL INSPECTORATE
OBJECTIVES, FUNCTIONS AND ADMINISTRATIONS

1. The department of the, Electrical Inspectorate headed by the Chief Electrical Inspector and Ex-Officio Additional Secretary to Government (Licensing) (also Chairman, Licensing Advisory and Examination Board, the Chief Inspector of Lifts and Cinemas and Chairman, Board of Examiners for Cinema Operators) is working under the Administrative control of Department of Energy. The Department is entrusted with the responsibility of ensuring the safety aspects and proper administration of I.E. Rules, I.E., Act, Karnataka Cinema Acts and Rules, Karnataka Lift Act and Rules, Karnataka Licensing Rules.

2. In order to ensure the implementation of I.E. Acts and Rules, the following are the important works carried out by the Department.

(a) Initial and Periodical Inspection of Electrical Installations of Factories, K.E.B., Installations, Consumer Installations, Neon Signs, EHV/HV Installations, Lifts, Generator Sets and Multistoreyed Buildings (Statistics Sheet enclosed), Cinema Installations.

(b) Scrutiny of drawings and to accord approval for Electrical Installation drawings, K.E.B., Installations, Consumer EHT/HT Installations, Generator Sets, Multistoreyed buildings and Cinemas. The following numbers of drawings have been approved during the Period from April to End of December 1994.

1. Consumer HT/EHT Installations	...	116
2. Diesel Generator Sets	...	473
3. Cinema Installations	...	24
4. Multistoreyed Buildings	...	54

(c) All the Electrical Accidents occurred during April to December 1994 enumerated below. Investigated and remedial measures were suggested to the authorities concerned for avoiding recurrence of such accidents and to take preventive measures to the utmost possible extent.

(i) Total Accidents Human (Fatal)	80 Nos.
(ii) Total Accidents Animal (Fatal)	219 Nos
iii) Non Fatal to Human beings	243 Nos.

(d) Several types of complaints from the Suppliers/consumers and Licenced Electrical Contractors were received in this office and reasonable settlement were arrived at rendering natural justice to the aggrieved by mutual understanding and co-operation as far as possible.

(e) The monthly meetings of the Licensing Advisory and Examination Board were held during every month in the year 1994-95 and the following number of licences and permits were issued and renewed during the period from April to December 1994.

	New Licences/ permits	Renewal
1. Class I Contractor	520	591
3. Class III Contractor	1109	06
4. Supervisor Permits	864	1109
5. Wiremen Permits	982	911
6. Special Wiremen Permits	07	18

Industrial Supervisor, Mining Supervisor and Wiremen Examinatoinns were conducted during the month of January and February 1995.

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(f) During the year upto December 94, 91 nos. of New Cinema Operators permits were issued. As on today, there are 3709 nos. Cinema Operators Licences holders in the State.

0043 REVENUE 1994-95 (AS ON 31ST DEC. 1994)

	Rs.
1. Tax and duties on sale of electricity.	2,69,33,650/-
2. Inspection fees under I.E., Rules	76,89,360/-
3. Inspection fee under Cinema	92,520/-

OTHER RECEIPTS

1. Fees towards Renewal of Licences & permits	13,20,320/-
2. Examination Fees	76,064/-
3. Fee under Lift Act	42,000/-
4. Other items	3,43,747/-
5. Recoveries of over payments	11,258/-
	3,65,08,919/-

2045 EXPENDITURE 1994-95
(AS ON 31ST DECEMBER 1995)

1. Salary (a)Officers	10,80,000/-
(b)Staff	34,75,475/-
2. Dearness Allowances	35,97,300/-
3. Other Allowances	6,60,000/-
4. Travelling Expenses	1,82,480/-
5. Office Expenses	5,11,000/-
6. Rent, Rates & Taxes	2,15,853/-
7. Payment of Professional & other sources	2,84,500/-
Total;	1,00,06,608/-

CHIEF ELECTRICAL INSPECTOR TO GOVERNMENT.

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