

ANNUAL ADMINISTRATION REPORT

2015-16



KERALA STATE ELECTRICITY BOARD LIMITED

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PREFACE

It is my pleasure to present the Annual Administration Report of Kerala State Electricity Board Limited for the year 2015-16. It is the third report of KSEB Ltd, since the company was formed only in the year 2013. But if the total history of this integral utility of the state is taken into account, this report is 59th in the series.

Going through this report, you may find that the major event in the power scenario of the state during the reporting period was the commissioning of 400 KV Mysore - Areakode line, which enhanced the power import capability of the state from 1800 MW to 2400MW. Commissioning of eight 110 kV substations, three 66kV substations, three 33 kV substations and 140.14 km of lines in the voltage levels above and including 33KV are the other achievements in the transmission side in summary.

42.566 MW was the capacity that could be added in the generation side including contributions from IPPs and Prosumers. It may be noted that this newly added capacity came exclusively from renewable energy sector. That the consumers owned solar power plants are picking momentum is a point to be highlighted here.

Demand growth of the state far out paces the little capacity addition happening within. Procuring energy through term contracts and from the power market were the only options to meet the extra demand. Reporting period witnessed proactive measures on managing the grid without power cuts and load shedding.

T&D losses were reduced during the period from 14.57% to 14.37%. This achievement was also in consequence to the works done in the distribution sector, such as addition of 2,022km of 11kV lines. 3,81,247 numbers of new consumers were added to the network for which 3,312 km of LT lines had to be drawn additionally. 2,389 Distribution Transformers were also installed. Domestic Efficient Lighting programme which was initiated in this period to distribute LED bulbs, is expected to reach 75 lakh domestic consumers.

I place on record, my appreciation for the contribution made by the officers and employees at every level, and thank them for their good work.

Thiruvananthapuram
Date: 21.11.2016

Dr.K. Ellangovan, IAS
Chairman&Managing Director,
KSEBL

1. MANAGEMENT

Annual Administration is the most authenticated report on the functions and achievements of the organization for the year under report. As per the order of Government of Kerala numbered G.O(P)No.207/2014/GAD dated Thiruvananthapuram 24.07.2014 each government department and public sector undertakings should publish the Annual Administration Report without fail.

That the functions of Corporate planning and Supply Chain Management were brought immediately under a Director was one of the major developments, at the topmost management, that the year 2015-16 witnessed. Creation of a Chief Engineer's office in the distribution sector for the Kannur region was another noteworthy development.

Ensuing pages contain precise but relevant account of the functions and achievements of various wings of KSEBL for the financial year 2015-16.

1.1 BOARD OF DIRECTORS OF KSEB LIMITED DURING 2015-16 (From 1.04.2015 to 31.03.2016)

Board of Directors	Name	Term
Chairman & Managing Director	M. Sivasankar, IAS	
Director (Finance)	S. Venugopal	Till 9-8-2015
	N.Sivasankara Pillai	From 10.8.2015
Director (Distribution & Safety)	M. Muhammed Ali Rawther	Till 31.5.2015
	B.Neena	From 1.6.2015
Director (Transmission & System Operation)	Venugopalan. K	Till 30.5.2015
	P.Vijayakumari	From 1.6.2015
Director (Generation Civil)	Baburaj .J	Till 31.5.2015
	C.V.Nandan	From 1.6.2015
Director (Generation Electrical & SCM)	Baburaj J	Till 31.5.2015
Director (Generation Electrical & HRM)	C.V.Nandan	From 1.6.2015
Director(Corporate Planning &SCM)	Dr.O.Asokan	From 1.6.2015
Director (Ex Officio)	Dr. K.M. Abraham ,Addl. Chief Secretary (Finance), GoK	From 1.4.2015
Director (Ex Officio)	M. Sivasankar, IAS, Secretary (Power), GoK	From 1.4.2015
Director (Non Official)	Adv. B. Babu Prasad	From 1.4.2015

1.2 .STRATEGIC BUSINESS UNITS

In consistence with the State Government policy, the utility is not unbundled and is corporatized as a single company handling all the functions of Generation, Transmission and Distribution. There are three Strategic Business Units (SBU) in the company namely, Generation, Transmission, and Distribution which are headed by the Directors concerned.

1.2.1 GENERATION SBU

The Director (Generation) heads the Generation SBU who is assisted in management by the following Chief Engineers:

- Chief Engineer (Civil Construction - North)
- Chief Engineer (Civil Construction - South)
- Chief Engineer (Civil - Investigation & Planning)
- Chief Engineer (Civil - Dam Safety & DRIP)
- Chief Engineer(Generation)
- Chief Engineer(PED)

1.2.1.1. The Generation SBU operates and maintains 34 hydroelectric generating stations, 2 thermal power plants, and the wind farm at Kanjikode. Renovation, modernization and up-rating of the old hydroelectric projects which have surpassed their useful life are also being carried out by this wing. Investigation, planning and design of all hydroelectric projects, land acquisition matters connected with various hydel projects, works connected with the environmental and forest clearance aspects of generation schemes, safety and maintenance of dams and connected structures, construction works of all hydroelectric and thermal projects come under the Generation SBU. Other activities include construction and maintenance of various office buildings, fabrication of line materials for distribution, yard structures for substations and accessories for hydraulic structures.

1.2.2 TRANSMISSION SBU

1.2.2.1 Director (Transmission & System Operation) heads the Transmission SBU. The following three Chief Engineers manage the operations of this SBU.

- Chief Engineer (Transmission - North)
- Chief Engineer (Transmission - South)
- Chief Engineer (Transmission - System Operation)

1.2.2.2 Transmission SBU manages the construction, operation and maintenance of EHT substations and transmission lines and the supply of power to EHT consumers. Transmission SBU is responsible for the implementation of transmission loss reduction programs and coordinating the activities for system development. Transmission SBU has absolute control

over all load dispatch activities, with full responsibility for real time management and matters pertaining to protection system and communication system. Scheduling of generation, scheduling of annual maintenance, import of power from independent power producers and central generating stations and export of power are managed by this SBU. Other important activities include monitoring of daily system statistics, implementing policy matters related to merit-order dispatching, communication planning, networking of computers and co-ordination of activities under the system operation circles.

- North zone headed by Chief Engineer (Transmission - North) with its headquarters at Kozhikode is divided into 5 Transmission Circles, 15 Divisions, 58 subdivisions.
- South zone is headed by Chief Engineer (Transmission - South) with its headquarters at Thiruvananthapuram has 6 Transmission Circles, 17 Divisions, 59 Subdivisions.
- System Operation is headed by Chief Engineer (Transmission - System Operation) with its headquarters at Kalamassery has 3 System Operation Circles, 6 Divisions, 38 Subdivisions and 19 Sections.

1.2.3. DISTRIBUTION SBU

1.2.3.1. The Distribution Licensing area of KSEB at the beginning of the year had 3 zones/regions namely South, Central and North, each headed by a Chief Engineer. Vide B.O dated 03.03.2016 , the North region was bifurcated to form the fourth region with headquarters at Kannur. Electrical Circles Vadakara, Kalpetta, Kannur, Sreekandapuram and Kasaragod of erstwhile Distribution (North) were detached from, and brought under the Chief Engineer at Kannur. There are no changes for the HQs of the other /existing regional offices of the Chief Engineers. Names of the offices of the 4 regional Chief Engineers after the change are given below.

- Chief Engineer Thiruvananthapuram Region [Formerly Chief Engineer Distribution (South)]
- Chief Engineer Ernakulam Region [Formerly Chief Engineer Distribution (Central)]
- Chief Engineer Kozhikode Region [Formerly Chief Engineer Distribution (North), part of which has now been attached to the Kannur region]
- Chief Engineer Kannur Region [Newly formed comprising of 5 circles from the erstwhile North region]

The Centrally aided projects were brought directly under a chief Engineer for which the post of Chief Engineer (HRM) was shifted and re-designated as Chief Engineer (Centrally Aided Projects & Safety). Also, Chief Engineer(IT) was re-designated as (IT& Customer Relations). These changes were brought vide G.O dated 05.06.15

Chief Engineer (Centrally Aided Projects & Safety) and Chief Engineer (IT&CR) report to Director (Distribution & Safety).

1.2.3. 2 Distribution SBU manages distribution of electricity business in the State other than in other Licensee's areas. The activities of the SBU include construction, operation and maintenance of distribution network upto a voltage level of 11KV. Implementation of Central

sector schemes like RAPDRP Part B, RGGVY, DDUGJY, IPDS etc., distribution sector projects funded externally, like MP LAD/MLA LAD/ Kerala Development Scheme are undertaken by this SBU.

- Thiruvananthapuram Region with its headquarters at Thiruvananthapuram has 7 Electrical Circles, 22 Divisions (including TMR Divisions at Thirumala & Pallom), 63 Subdivisions and 217 Electrical Sections.
- Ernakulam Region with its headquarters at Ernakulam has 7 Electrical Circles, 25 Divisions (including TMR Division at Angamaly), 69 Subdivisions and 236 Electrical Sections.
Kozhikode Region with its headquarters at Kozhikode has 6 Electrical Circles 18 Divisions (including TMR Division at Shoranur), 46 Subdivisions, 136 Electrical Sections.
- The Kannur Region headed by the Chief Engineer with headquarters at Kannur has 5 Electrical Circles, 11 Divisions (including TMR Division at Kannur), 33 Electrical Sub divisions, 189 Electrical sections.

1.3 CORPORATE OFFICE

1.3.1. Corporate office under Chairman & Managing Director deals with the corporate affairs of KSEBL. Financial management, corporate planning, legal affairs, human resources management, tariff, regulatory and commercial matters are some of the key functions carried out by the Corporate office. Heads of Departments of the Corporate office functioning under the direct supervision of the Chairman & Managing Director are as follows:

- Legal Adviser & Disciplinary Enquiry Officer
- Chief Vigilance Officer
- Secretary (Administration)
- Chief Engineer (Renewable Energy & Energy Savings)

1.3.2 Director (Finance) controls the financial management, internal audit, tariff and commercial aspects and is assisted by the following Heads of Departments:

- Chief Engineer (Commercial & Tariff)
- Financial Advisor
- Chief Internal Auditor
- Special Officer (Revenue).

1.3.3 Director (Corporate Planning & SCM)

Vide GO dated 30.05.15, Government reconstituted the Board of Directors of KSEBL and by which Director (Corporate planning & SCM) was inducted. As per B.O dated 15.06.15, Chief Engineer (Thermal Projects) who was reporting directly to the CMD, and the Planning wing which was functioning under Chief Engineer (Corporate Planning) were brought under Director (Corporate planning & SCM).

Vide B.O dated 15.06.15, the post of Chief Engineer (Corporate Planning) was re-designated as Chief Engineer (Renewable Energy& Energy savings).

1.3.4 Secretary (Administration) is the authorised representative of KSEBL for general administration and legal matters and is assisted by,

- Regional Personnel Officer
- Chief Public Relations Officer
- Resident Engineer, New Delhi

1.3.5 Government vide orders dated 08.06.2015 accorded sanction to create one post of Company Secretary. It was also ordered on 16.09.2015 to fill up the post of Assistant Company Secretary from among the qualified hands in KSEBL. Accordingly Assistant Company Secretary was posted vide B.O dated 26.12.2015.

Assistant Company Secretary reports to Secretary (Administration) and hold full additional charge of Company Secretary of Kerala State Electricity Board Limited. Assistant Company Secretary attend all statutory duties as specified in the Indian Companies Act 2013 which was being .performed by Secretary(Administration).

1.4 ORGANISATION CHART

Organisation chart of Kerala State Electricity Board Ltd is shown in Annexure.

2. PHONE NUMBERS & e-mail id OF IMPORTANT OFFICES

2.1 DIRECTORS OF KSEBL

Sl. No	Designation	e- mail	Phone
1	Chairman & Managing Director	cmdkseb@kseb.in	9446008002/9446008040(o)
2	Director (Finance)	dfkseb@kseb.in	9446008003/9446008603(o)
3	Director (Distribution&Safety)	ddkseb@kseb.in	9446008818/9446008818(o)
4	Director (Trans.& System Operations)	dtkseb@kseb.in	9446008444/9446008884(o)
5	Director (Generation Civil&HRM)	dgckseb@kseb.in	9446008004
6	Director(Corporate planning & SCM)	dscmcp@kseb.in	9446008009

2.2 CHIEF ENGINEERS & OTHER HoDS

Sl. No	Designation	e- mail	Phone
1	CE (Generation)	cegen@kseb.in	9446008203/ 9496009370 (o)
2	CE(HRM)	cehrm@kseb.in	9446008008 / 9446008825 (o)
3	CE(IT)	ceit@kseb.in	9446008017 / 9446008893 (o)
4	CE (Commercial & Tariff)	cect@kseb.in	9446008137 / 9446008819 (o)
5	CE(PED)	ceped@kseb.in	9446008207 / 9446008858 (o)
6	CE(Civil Construction-South)	ceccs@kseb.in	9446008013 / 9496011907 (o)
7	CE(Civil Construction-North)	ceccn@kseb.in	9446008206 / 9496011534 (o)
8	CE(I&P)	ceip@kseb.in	9496011730 / 9446008969 (o)
9	CE(Dam Safety)	cedamsafety@kseb.in	9446008005 / 9446008967 (o)
10	CE(SCM)	cescmkseb@ksebnet.com	9496018448/04712514525(o)
11	CE(Transmission South)	cets@kseb.in	9446008010 / 9446008904 (o)
12	CE(Transmission North)	cetn@kseb.in	9446008205 / 9496010972 (o)
13	CE(System Operation)	ceso@kseb.in	9446008202 / 9496011900 (o)
14	CE(Thiruvananthapuram region)	ceds@kseb.in	9446008011 / 9446008039 (o)
15	CE(Ernakulam region)	cedc@kseb.in	9446008201 / 9496008717 (o)
16	CE(Kozhikkode region)	cedn@kseb.in	9446008204 / 9496010689 (o)
17	CE(Kannur region)	cedkkseb@gmail.com	0497 2707202
18	Chief Vigilance Officer	cvo@kseb.in	9446008006 / 9496008876 (o)
19	CE (APTS)	ceapts@kseb.in	9446008016
20	LA & DEO	ladeo@kseb.in	9446008015 / 9446008615 (o)
21	Chief Internal Auditor	cia@kseb.in	9446008208 / 9496011837 (o)
22	Chief Public Relations Officer	dpr@kseb.in	9446008179 / 9496011848 (o)
23	Financial Advisor	fa@kseb.in	9446008014 / 9496008814 (o)
24	Secretary (Administration)	secretary@kseb.in	9446008012 / 9446008612 (o)
25	Assistant Company Secretary	cs@kseb.in	9446009219/04712514491(o) 04712514620(o)

3. MAIN FUNCTIONS OF VARIOUS WINGS

3.1 RENEWABLE ENERGY & ENERGY SAVINGS

Renewable Energy & Energy Savings is headed by the Chief Engineer(Renewable Energy &Energy Savings). For effective implementation of energy conservation activities, an Energy savings co-ordination (ESCO) team is functioning under this office. The Innovation group co-ordinates the functions related with the start-up village in Kochi.

Identify viable and beneficial renewable energy projects and prepare DPR for submission to Central and State Governments for approval and financing ,Tendering and awarding of renewable energy projects and innovation works, design and implementation of Distributed Decentralized generation projects and sustainable micro grids ,Smart grid, Find out innovative ideas and works in the power sector, Identify innovators from Start up village and co ordinate them ,ESCO model implementation ,Supply side Management and Demand side management ,Energy Auditing ,Implementation of DELP are the main functions .

3.2 CENTRALLY AIDED PROJECTS &SAFETY

Documentation, liaisoning with State and Central Government , Monitoring of Centrally Aided Projects such as RAPDRP, RGGVY ,IPDS, DDUGJY, monitoring the progress of implementation of all centrally aided projects ,all safety related activities .

The main objective of the safety wing is to maintain a persistent and systematic safety culture in the organization by reducing the accident to zero level. Safety wing has jurisdiction all over Kerala in Generation, Transmission and Distribution sectors and Civil wing of KSEBL. The safety officers conduct periodic inspections at various offices and ascertain safety preparedness and suggest improvements.

3.3 COMMERCIAL & TARIFF

Chief Engineer (Commercial & Tariff) reports to Director (Finance) and is part of Corporate office. Deals with the matters related to procurement of power, regulatory affairs including tariff, cost of distribution works, other licensees, arrear clearance etc.

3.3.1 Commercial wing invites tenders related to purchase / sale / banking of Power, evaluates bids, issues Lol and executes agreements. Monitors matters related with open access and transmission corridors. Executes Transmission Supply agreements, verifies & issues admissibility of bills on purchase of energy from Central Generating Stations, Independent Power Producers as well as other Generators and Traders. Raises invoices for sale of power to other utilities / traders, settles accounts in the case of banking arrangements, deviation accounts & reactive energy etc.

3.3.2 Tariff & Regulatory Affairs Cell (TRAC) prepares & files Aggregate Revenue Requirement & Expected Revenue from charges and other allied activities to obtain approval from KSERC. Prepares and files tariff proposals for the approval of KSERC. Implements tariff revision orders of KSERC including preparation of billing procedures and ready reckoners. Collection and analysis of data related to power generation scheduling, power purchase and revenue collection, other performance parameters such as borrowings, power purchase, employee cost, T & D loss, consumption pattern of consumers etc. for the costing of service and marginal cost of electrical energy. Files petition and counter affidavits on petition filed by CPSUs and IPPs.

Files appeal petitions before Appellate Tribunal for Electricity against the orders of KSERC.

3.4 PROJECTS ELECTRICAL DESIGN (PED)

Projects Electrical Design headed by Chief Engineer (PED), reports to Director (Generation&HRM). The pre-contract activities and post-contract activities such as design, preparation of technical specifications, tendering, scrutiny and approval of drawings, design documents and QAP, inspection and test witnessing at works, monitoring and supervision of erection works, testing and commissioning etc in respect of E & M works for new power generation projects and RMU of existing power projects are under taken by this wing. Prepare technical specification of E&M estimate including power evacuation of projects based on preliminary design and site visit, for incorporating the same in the DPR of new projects. DPR preparation of RMU works are also done in this office.

3.5 INFORMATION TECHNOLOGY

Chief Engineer (IT) heads the IT wing. Main areas of work are software development, testing, implementation and maintenance related to the automation of various functional areas, setting up and maintaining IT infrastructure including servers, storage, backup units, LAN/WAN, security devices, design, planning and implementation of R-APDRP and IPDS projects, providing help desk for Orumanet, HRIS, e-tendering. IT wing is engaged in the automation of LT and HT billing, HR Management system.

3.6 THERMAL PROJECTS

Installation of gas based generator sets of total capacity 39.86 MW at Brahmapuram Diesel plant, 350-475 MW gas based combined cycle power plant at Brahmapuram, , Petcoke based plant at Kochi, Coal based project at Cheemeni, Procurement of 200 MW Solar power from Independent developers within the state which are handled by the Chief Engineer, Thermal projects.

The place of office of the Chief Engineer (Thermal Projects), Kalamassery has been redeployed vide B.O no.764/2016 dtd 04-3-2016. The Deputy Chief Engineer, Brahmapuram Diesel Power plant (BDPP) is entrusted with the residual works in the office of the Chief Engineer (Thermal Projects).

3.7 SYSTEM OPERATION

This office is headed by Chief Engineer(System Operation).The State LD operations and related works are managed at this office. Load Dispatch Activities, and all the activities in the Communication, SCADA, Protection, Power equipment testing and Meter testing field come under this office.

3.8 SUPPLY CHAIN MANAGEMENT

Supply Chain Management headed by Chief Engineer (SCM), reports to Director (Corporate Planning&SCM). Prepares the Purchase Plan for procurement of centralized distribution and transmission materials and place it before the Purchase Committee and Full Board for approval. Procures materials based on purchase plan. Arrange the raw materials required for the fabrication of line materials. Inventory control is exercised by the three SBUs. This office monitors and reviews the flow of materials.

3.9 CIVIL INVESTIGATION AND PLANNING

This wing is headed by Chief Engineer (Civil I&P) under Generation SBU. Identifies the potential of hydro-electric schemes, both small and large, that can be taken up for implementation, conducting preliminary and detailed investigation/ survey jobs, preparation of Preliminary/ Detailed Investigation Reports (PIR/ DIR) and preparation of Draft Detailed Project Reports (DPR) for those projects that are found technically feasible and economically viable. Investigation of Capacity Addition of existing major power project, pumped storage scheme and solar projects are also dealt with. Activities related in obtaining Forest and Environmental Clearances for the various projects, issues on Inter-State water disputes, Clean Development Mechanism (CDM), financial assistance from MNRE for the implementation of HEP through Forest Environmental Management Unit (FEMU) are dealt under this office.

3.10 DAM SAFETY

Safety aspects of 58 dams of KSEBL are monitored by the Dam Safety Wing headed by Chief Engineer (Civil-Dam Safety & DRIP) under Generation SBU. Other major functions includes monitoring of dams, instrumentation and preparation of inspection reports, maintenance of dams and connected structures, operation of intake, spillway gates and disperser valves as and when required and its maintenance, general upkeep and maintenance of the dam and its connected structures to ensure their security, arranging security at vital points, material testing, mix design and model studies, monitoring of seismic network, upkeep & maintenance of colony at Vazhathope, Kakkad, Kochu Pamba, Pambala & Padinjarethara, issues regarding land encroachment in Idukki, Ayyappancovil, Lower Periyar, Anayirankal, Kakkad and demarcation of land and land issues at Thariode, research activities based on the dam monitoring results especially for the major & old dams, implementation of Dam Rehabilitation and Improvement Project aided by World Bank.

3.11 FINANCE & ACCOUNTS

Finance and Accounts wing is headed by the Financial Advisor and reports to Director (Finance). This office undertakes financial management in terms of long term and short term resource mobilization, working capital management, investment management, financial planning, budgeting and budgetary control, management of cash flows, corporate banking and treasury management.

3.12 INTERNAL AUDIT

The Chief Internal Auditor heads the Internal Audit wing and reports to Director (Finance). This office carries out post audit, pre-audit and pre-check functions by the teams in the corporate office as well as Regional Audit offices. Precheck bills in respect of capital expenditure and Repairs and maintenance bills related to Transmission, System operation, IT and Civil wings are done by the RCA office. Other audit sections at the head office are Work audit section for audit of work bills, EAD/GAD sections for audit of establishment bills, Pay fixation & Pension audit sections for audit of pay/pension fixation, GPF sections for maintenance of GPF, ARI section as interface between KSEBoard Ltd and the Accountant General/Govt/PUC and the RAO monitoring cell responsible for review follow up and consolidation of audit report of Regional Audit Offices.

3.13 LEGAL WING

Legal wing is headed by the Legal Advisor and Disciplinary Enquiry Officer (LA & DEO), who is a District Judge from the judiciary on deputation, reports to Chairman & Managing Director. The main function of this wing is to conduct cases filed by and against KSEBL before various courts up to Hon'ble Supreme Court, other Judicial Fora and Tribunals.

KSEBL has 79 standing Counsels for handling the cases before Lower courts in the state, three Senior Standing Counsels and eight Standing Counsels for High court, and one standing counsel for Supreme court.

LA & DEO gives legal advice and clarification on the legal matters on various files, important legal issues taken up by various field officers of KSEBL and scrutinize reports of title deeds for the acquisition of properties. Agreements executed between KSEBL and the contractors, power purchase agreements and tender documents are vetted by LA & DEO.

3.14 CHIEF PUBLIC RELATIONS OFFICER

Public Relations Department headed by Chief Public Relations Officer and reports to Chairman & Managing Director. This is a major wing of KSEBL and plays a central role in the management of communication between KSEBL and its various Public. It acts as an interface to maintain a healthy relationship among KSEBL, Public and media. Also, processes statewide tender notices for publication in newspapers, Government website and website of KSEBL. Advertisements related to disciplinary proceedings, statutory notices etc, display and special advertisements in connection with construction/commissioning and inauguration of projects, substations and new offices, various activities of KSEBL like energy conservation, safety etc are published in newspapers. The facebook page of KSEBL (<https://www.facebook.com/ksebl>) managed by this wing. KSEBL also uses Twitter (<https://twitter.com/KSEBLtd>) to communicate to the public.

3.15 PERSONNEL DEPARTMENT

Personnel Department is headed by the Regional Personnel Officer and reports to Secretary (Administration). Functions as an effective machinery in evolving decisions related to Personnel Management, Industrial Relations and Labour Welfare functions related to collective bargaining, conciliation, arbitration and adjudication. Department conducts review of representation of SC/ST employees in the organisation in every quarter. Conduct Workmen's Compensation cases directly and through counsels. Several cases of Industrial disputes, claim petitions, original petitions and gratuity cases also contested.

3.16 SPECIAL OFFICER (REVENUE)

HT/EHT billing and allied works are carried out under Special Officer (Revenue) and reports to Director (Finance). Activities such as monthly revenue billing and allied works of HT/EHT consumers, licensees, captive power plants, railway traction, interstate wheeling charges and reactive energy charges. Collection of cash deposit / additional cash deposit and its interest adjustments and accounting, issuance of disconnection/ reconnection notice to defaulters, follow up of revenue recovery and court cases pending before various courts/ other forums.

3.17 VIGILANCE & SECURITY

Vigilance and Security Wing headed by Inspector General of Police on deputation from the Police Department. Superintendent of Police was in-charge of Chief Vigilance Officer, reports to the Chairman & Managing Director. There are two wings namely Vigilance and Anti Power

Theft Squad (APTS) under the control of Chief Vigilance Officer.

3.17.1 Vigilance Wing is constituted to effectively combat corruption and misconduct on the part of officers / employees of KSEBL. It deals with complaints of misconduct, malpractices, irregularities, corruption, etc. against KSEBL Officials and also the security aspects of KSEBL's installations. Prepares Statement of Facts for cases at Hon'ble High Court, Lok Ayuktha, Civil Courts and CDRF where the Chairman or Chief Vigilance Officer is the respondent.

3.17.2 Anti Power Theft Squad (APTS) is constituted under Inspector General of Police as a central agency to detect pilferage and misuse of electricity all over the State of Kerala. Vide B.O dated 05.06.15 , Deputy Chief Engineer (APTS) post was upgraded to Chief Engineer (APTS). Three Executive Engineers under the control of Chief Engineer (APTS) Thiruvananthapuram co-ordinates the APTS activities in Southern, Central and Northern Region respectively and the Head Quarters of these three regional units are located at Thiruvananthapuram, Aluva and Kozhikode.

3.18 PLANNING WING

Planning wing headed by Executive Engineer directly report to Director (Corporate planning and SCM). The major functions of planning wing are preparation of annual, Five year and long term perspective plan ,regulatory and policy matters ,liaison with Central and State Governments ,MIS functions.

3.19 LAND MANAGEMENT UNIT (LMU)

The Land Management Unit (LMU) was constituted in KSEBL in 3-3-2014 for effective inventorisation of lands and to provide guidance for the effective management of land under the control of KSEBL.

3.20 POWER SYSTEM ENGINEERING

Power System Engineering wing is under the Transmission SBU. Conducts load flow studies using MiPower software to find out the feasibility of proposals for construction / up gradation / capacity enhancement of substations and power evacuation proposals for new /existing projects. Conducts short-circuit study for finding out the fault level of substations in the grid and loss study of transmission network. Designs Earth Mat for substations and prepares transmission plan.

3.21 RESIDENT ENGINEER

The Resident Engineer, New Delhi act as a liaison officer to interact with Ministry of Power, Central Electricity Authority, CERC, PFC, REC and other central government agencies. Also, monitors the conduct of cases at Hon'ble Supreme Court and other quasi Judicial Appellate Fora at New Delhi.

4. HUMAN RESOURCES

4.1 Deputy Chief Engineer (HRM I) with full power of Chief Engineer was in charge of affairs in the HR wing in the reporting period. Deputy Chief Engineer (HRM I) reports to Director (Generation & HRM). The main functions and responsibilities of the HRM are to make appointment to all cadres up to and including Assistant Executive Engineer and Assistant Accounts Officer/ Assistant Finance Officer, order transfer and posting of employees of and below the rank of AEE/ AAO/ AFO, report vacancies to Kerala Public Service Commission (except that of Electricity Workers), appointment on compassionate ground of the dependent employees, appointment of paid and unpaid apprentices, organising all the training related activities under the HRD Cell, sanctioning of all kinds of leave exceeding 120 days except study leave & leave without allowances, sanctioning of special disability leave of and below the category of AEE/AAO/AFO, pensioner claims, processing of income tax statement, life certificate, preparation of gradation list, sanctioning of medical advances etc.

Salient details on the working personnel in KSEBL for the financial year 2015-16 is as given below:

- Total working strength of personnel as on March 2016 is 36,742.

Generation	- 2,386
Transmission	- 3,991
Distribution	- 29,248
Corporate office	- 1,117
- 700 recruitments were made through PSC and 57 appointments were made under compassionate scheme.
- 8 candidates were appointed through sports quota.
- 996 paid apprentices and 1,457 unpaid apprentices were selected for appointment.
- 11 Nos. of supernumerary posts are operated during the year.
- 1,752 vacancies were reported to PSC.
- 2,454 numbers of promotions were effected on various categories of and below the rank of Assistant Executive Engineer (Electrical) and Assistant Accounts Officer.

4.2 Human Resource Development (HRD) Cell headed by Executive Engineer coordinates the training activities conducted at Power Engineers Training and Research Centre (PETARC) at Moolamattom, Regional Power Training Institutes at Thiruvananthapuram, Kottayam, Thrissur and Kozhikode, and at Vidyuthi Bhavanam, Thiruvananthapuram. This office also has the responsibility to depute officers for attending training programmes to centers outside the state such as ESCI Hyderabad, CIRE Hyderabad, CPRI Bangalore, PMI Noida, TNEB Madurai, NPTI Neyveli, PSTI Bangalore. Highlights of HRD cell during the period were:

- Deputed 161 employees for attending 58 Nos. various training programmes outside the state.

- Through National training programme of C&D employees (Sub Engineer, Senior Assistant, Overseer, Lineman, Meter Reader, Electricity Worker), KSEBL has trained 3,145 employees by conducting 137 programmes with the financial assistance of Ministry of Power.
- Trained 22,783 employees through 894 training programme including external programme, incurring an expenditure of Rs 2.7818 Cr.
- Permitted 2,850 students from professional colleges to do their project works and industrial training at various powerhouses and substations.
- Permitted students from ITI Malampuzha and Aryanad to undergo industrial training at free of cost.

5. IMPORTANT ACHIEVEMENTS / ACTIVITIES

5.1 GENERATION SBU

Description	No.	Capacity (MW)
Projects commissioned by KSEBL	4	21.011
Projects commissioned through private developers	0	0
Works in progress	9	166.6
Tenders invited	1	2
Works awarded	0	0
DPR approved and Administrative sanction accorded	1	24

5.2 TRANSMISSION SBU

Description	Achievement during 2015-16
No. of 220kV substations commissioned	0
No. of 110kV substations commissioned	8
No. of 66kV substations commissioned	3
No. of 33kV substations commissioned	3
Length of 220kV lines commissioned (km)	0.68
Length of 110kV lines commissioned (km)	66.67
Length of 66kV lines commissioned (km)	6
Length of 33kV lines commissioned (km)	66.79

5.3 DISTRIBUTION SBU

Description	Achievement during 2015-16
No. of service connections effected	381247
No. of street lights installed	57923
11 kV line constructed (km)	2022
LT line constructed (km)	3312
No. of distribution transformers installed	2389

5.4 PLANNING WING

- Prepared Annual Plan for 2016-17 including Capital investment plan for 2016-17 and revised capital investment plan for 2015-16 .
- Co-ordinated followed up action for pending issues including appeal petition on the allocation of Baitarni West Coal block. Explored options for getting re-allocation of Baitarni Coal block or allocation of new coal block under provisions of the Coal Mines(Special Provisions),Act 2015
- Submitted the reports to GoK on Subject Committee, demand for grant, Budget Speech, Governors Address
- Submitted Monthly plan progress report, and notes on the issues for Annual Conference of District Collectors and Head of Departments.
- Followed up with Government of Kerala and other agencies for the setting up of a coal based mega power project at Cheemeni in Kasargod district.
- Prepared the State Specific Document of Kerala for the '24x7 Power For All' programme in coordination with the consultant appointed by Ministry of Power, Government of India . Government of Kerala signed the document on 13.02.2016.
- Submitted notes on the issues to be taken up with Government of India in various conferences viz; Chief Minister's Conference, Power Minister's Conference, MP's Conference, Chief Secretaries Conference.
- Submitted to the Board of Directors, the status paper on matters such as power position, physical as well as financial performance of the strategic business units and Corporate office.
- Submitted details such as Quarterly performance report, Quarterly AT&C loss to PFC, Reliability index, 20 point programme progress report, data for All India Electricity Statistics, Data for Economic review ,Progress report/ RFD monitoring of transmission works etc to various State/Central organisations viz; CEA, PFC, State Planning Board, Government of Kerala.
- Provided support function for the signing of MoU between West Kallada Non conventional Energy Promoters Private Limited and KSEBL in connection with leasing of land for the 50 MW West Kallada floating solar project on 29.08.2015.
- Provided the Input details for 19th Electric Power Survey (EPS) to CEA .
- Prepared the list of beneficiaries of consumers belonging to SC/ST and BPL categories to whom free connection provided by KSEBL from 1.4.2014 for obtaining reimbursement from Government of Kerala.

5.5 RENEWABLE ENERGY & ENERGY SAVINGS

5.5.1 Solar projects commissioned / added to grid /tendered during 2015-16

No	Name of project	Capacity (MW)	Date of commissioning
	KSEBL		
1	Grid tied roof top SPV Chalayoor tribal colony, Agali in Palakkad district	0.096	31.8.2015
2	SPV at Kanjikode, Palakad	1	20.8.2015
3	Roof top SPV at Poringalkuthu Power house	0.05	10.09.2015
4	Banasurasagar floating solar pilot project	0.010	21.01.2016
	Total capacity added (KSEBL)	1.156	
	Wind project (IPP) Ahalya Alternate Energy Private Ltd	8.4	22.02.2016(2 nd Unit) 23.03.2016(1 st ,3 rd and 4 th unit)
	Connectivity to Solar Plant of EHT Consumer CIAL (Prosumer)	12	18.08.2015

		Capacity (MW)
1	Solar projects work under progress	9.3315
2	Solar projects tendered	27.1

5.5.2 Documentation preparation for projects

- Micro grid project proposals in Kottayam –DPR prepared for Pazhukkakanam SHEP/Solar/Wind projects at Erattupetah.
- SPV and biomass fueled producer gas engine near HNL factory at Irumbayam colony,Thalayolaparambu .
- 1WTG project in 12acres land near 220Kv S/s,Kanjikode
- Repowering 5 Nos. of wind generators in the existing wind farm near 220KV S/S Kanjikode for enhancing the annual generation from 1.95MU to 7.14 MU.
- Applied for extending accreditation of in house R&D lab.

5.5.3 ESCOT wing

- The project of improving energy efficiency in Drinking water scheme started.
- Energy Conservation activities in Ice plants started
- DELP project started
- The programme of LED street lighting in Alappuzha Municipality started
- Conducted Energy Conservation programme among the NSS volunteers of technical students
- KSEBL has been awarded with State Energy Conservation Award 2015 and National Energy Conservation Certificate of Merit 2015. These awards were for the recognition of energy efficiency and loss reduction activities of KSEBL.

5.5.4 INNOVATION GROUP

- Invited EoI and WO issued for the 500KWp floating solar project at either Banasurasagar or Kakkayam reservoirs funded from innovation fund.
- Completed the following innovative projects through Energy Open Innovation Zone in Startup village, Kalamassery with financial support from innovation fund of Govt. of Kerala
 - (a) 10KWp floating solar plant on ferro cement platform at Banasurasagar reservoir
 - (b) Eco solar pump
 - (c) Solar powered public space consisting of solar flower, solar canopy tree, solar tree, solar fountain, solar info shrub
 - (d) Completed innovative project 11KWp screw turbine in tail race of Poringalkuthu HEP

5.5.5 IMPLEMENTATION OF SOLAR PARK

- The tripartite arrangement (for IREDA & THDCIL) between KSEB, SECI has been signed on 31st March 2015 providing an overall framework to facilitate the early setting of the Solar Power Project in Kerala. 100 MW capacity implementation by SECI, for 50 MW SECI has proposed to implement the same through IREDA and 50 MW through THDCIL.
- 200 Megawatt Solar Park shall be at the identified locations of Ambalathara, Kinanoor, Karinthalam, Paivelikai and Meenja villages in Kasargode District.
- Permissive sanction for setting of solar park at 484.32 Acres of Government land comprised in Survey nos. 100/pt, 146/pt situated in Ambalathara Village has been issued Order vide G.O. (MS) No. 352 / 2015 / RD / Dated Tvpm. 25.07.2015. as phase 1.
- The Government of Kerala vide G.O (MS) No. 65/2016/RD dated 28.01.2016 of Revenue (L) Department accorded sanction for advance possession of 598.9487 acres to KSEBL under phase II .
- The implementation of 50 MW (AC) on behalf of IREDA has been awarded to the EPC Contractor M/s Jackson Engineer Limited on 29.10.2016 for Design, Engineering, Supply, Construction, Erection, Testing, Commissioning and O&M for 10 years at an EPC .The work commenced by the contractor.

5.6 SAFETY

- Action taken for making a centralized rate contract system for procuring 14 types of different safety materials and equipments in the distribution wing for speedy procurement of material.
- As part of implementation of uniform safety procedure in KSEBL, structure of safety wing modified with Safety liaison officers, safety coordinators and safety officers vide B.O dt 17.03.2015 in Generation, Transmission and Distribution wing with duties and functions of different levels of safety officers which came into force wef.01.04.15.
- Constituted a committee having 12 members, named "SAFE KSEBL" committee, by incorporating officers of Generation, Transmission and Distribution wings having adequate experience in respective fields for making recommendations on safety related issues and activities in KSEB Ltd.
- First time in the history of KSEB Ltd. a separate budget for safety activities has been prepared, which gives more thrust to the safety activities of KSEB Ltd. as well as the awareness given to Board Staff and Contract workers in specific and public in general and to make them more aware about the dangers of unsafe acts while dealing with Electrical Appliances and installations.
- The safety week 2015 was observed from 1st to 7th May with the cooperation of Department of Electrical Inspectorate, Bureau of Indian Standards, Institution of Engineers(India), Energy Management Centre, ANERT and Department of Factories and Boilers.

5.7 COMMERCIAL & TARIFF

5.7.1 Commercial Wing

- Executed agreement with Jindal Power Ltd on 27.06.2015 for advancing the date of commencement of supply of 200MW RTC power to KSEBL to 1.6.2016 from the initial start date (1.12.2015)
- Agreement for the purchase of 150MW RTC power from Maithon Power Ltd. executed on 29.6.2015 on long term basis for a period of 30 years from the date of COD of the station at CERC approved tariff
- Agreement was executed on 3.12.2015 between KSEBL and M/s NLC Ltd on long term basis for a period of 25 years from the date of CoD of the Thermal Power Station-2(2nd Expansion)(2x500MW) in Neyveli at Cuddalore district of Tamilnadu.
- KSEBL executed agreement with M/s LANCO Kondappalli Power Ltd. on 12.6.2015 for the purchase of 210MW RTC power for the period from August 2015 to September 2015 under the scheme for utilization of gas based power generation capacity notified by MoP, Gol at a rate of Rs 4.7/KWh at Kerala periphery.
- Agreement executed with M/s PTC India Ltd on 31.3.2016 for supply of RTC power 200 MW @ Rs 3.08/-at delivery point from 1.3.2017 to 30.06.2017 from Jindal Power Ltd/Jindal Steel Power Ltd .

Data on Power Procured from various sources during 2015-16

Description	Quantum(MU)	Amount in Crores
Central Generating stations	11471.074	4131.59
IPP(liquid fuel stations)	144.048	367.823
IPP(hydro stations)&CPP	79.882	26.4098
IPP(Wind)	57.402	17.955
Bilateral Contracts and Power Exchanges	4005.664	1770.4994
UI	693.336	138.2668
Sale through Power Exchanges	53.345	42.268

5.7.2. Tariff Wing

- Finalised the technical particulars and assessed the T&D loss for 2015-16.
- Collected and analyzed the category wise consumer details and energy consumption etc for 2015-16.
- Collected and analysed the data related to power generation scheduling, power purchase and revenue collection, other parameters such as borrowings, power purchase, employee cost, T&D loss, consumption pattern of consumers etc.for the costing of service and marginal cost of electrical energy.
- Filed comments and suggestions on draft regulations issued by KSERC.
- Addressed issues related to Consumer Grievance Redressal Forum(CGRF) and Electricity Ombudsman.
- Prepared and submitted counter to petitions filed by the stake holders,consumers and other licencees before Hon.KSERC on ARR&ERC and truing up of Licencees.
- Appropriate directions issued to field officers in implementing supply code.
- Suggested amendments on Kerala Electricity Supply Code 2014 before the Code review panel.
- Prepared argument note on various cases before APTEL.
- Filed replies before CERC on petition filed by CTU,CGS,NLC and other IPPs.
- Filed petitions before KSERC for approval for power procurement from M/s. Maithon Power Limited, M/s. LANCO, M/s. DVC and power contracted through DBFOO basis, the estimate for providing temporary service connection and tariff for public lighting at Sabarimala

for 2015-16, cost data for the materials and labour for the distribution works, for approval of TMR Thirumala, Pallom, Shornur and Kannur as approved laboratories

- Filed petitions before CERC in the matter of non grant of LTA from the start date sought for in the LTA applications made for PPAs excluded under DBFOO bidding formats.

5.8 PROJECTS – ELECTRICAL DESIGN (PED)

- The Chimmony(1x2.5MW) project dedicated to the nation on 22-5-2015
- Renovated Unit #4(9MW) machine of Poringalkuthu HEP(4x9MW) commissioned on 29-5-2015
- Agreement was executed with M/s FEPL-FUYUAN consortium for the E&M works of renovation of Sholayar (3x18MW) HEP on 6-7-2015
- The Adyanpara(2x1.5MW+1x0.5MW) project dedicated to the nation on 3-9-2015
- The penstock replacement works for the penstocks of Sholayar HEP tendered on 14-12-2015
- R&M works for the 1st stage machines of Idukky HEP retendered on 7-1-2016
- The Barapole (3x5MW) project dedicated to the nation on 29-2-2016

5.9 SYSTEM OPERATION

5.9.1. Grid management

- Efforts were taken to reduce the system intervention to minimum by availing power through URS, UI/deviation, purchase through traders and exchanges. There was no declared load shedding during 2015-16. Load management by system intervention was done only during exigencies, when the availability of power was at stake due to contingencies.
- The scheduling of power was done strictly on merit order basis including availing of URS power, surrendering of power, scheduling IPPs etc.
- The UI import / +ve Deviation during the year was 731.58MU at an average rate of Rs.1.98 per unit and UI export /-ve Deviation was 38.24MU at an average rate of Rs.1.81

5.9.2 Protection Audit related works

Submissions were made for PSDF grant and cumulative total of these submissions is Rs. 37.93 Crore. KSEBL received an amount of Rs. 5.08 Crore on 29.1.2016 and 4.88 Crores on 31.03.2016 as first installment of grant.

5.9.3 Protection Audit

The verification of works carried out under protection audit was done by M/s.Tractbel and team of Engineers from SRLDC and SRPC at Edamon S/s on 18.01.16. The time limit

granted by Hon'ble CERC for completing the works identified by the Protection Audit vide the order of 86/MP/2014 was 31.12.2014 for Phase –I and 31.12.2015 for Phase –II works.

5.9.4 SCADA Up-gradation Project

- Board accorded sanction for the Up gradation of existing 'ULDC SCADA/EMS amounting to Rs. 32.92 Crores.. The MOU with respect to this project signed between KSEB Ltd and M/s PGCIL on 04.06.12. The work awarded to M/s.Alstom .The LD operations with the new SCADA system wef 05.12.2015 .
- Purchase order and work order for Providing communication facility to Sholayar and Poringalkuth Power Houses including Supply, installation, Testing and commissioning of overhead Optic Fibre cable (ADSS) and other allied equipments and its accessories was issued to M/s SPIKTEL TECHNOLOGIES PVT. LTD. F-23,Roshanara Complex, RoshanaraRoad, Delhi – 110007 for Rs.1,12,42,684/-.- work is in progress
- Purchase order and work order for providing new fibre optic links (OPGW) between various stations Punalur-Tower, Aluva-Tap tower, Edayar-Kalamassery, Muvattupuzha-Kalamassery, Shornur-LILO tower, Nallalam-Arecode including supply, installation, testing & commissioning of Optic Fibre cable and other allied equipments and accessories was issued to M/s SPIKTEL TECHNOLOGIES PVT. LTD. F-23, Roshanara Complex, RoshanaraRoad, Delhi – 110007 for Rs.2,13,77,797/-.
- Purchase order and work order for Supply, Installation, Testing and commissioning including integration of Dam Level monitoring System at 7 locations, ie, at Sholayar, Kallarkutty, Poringalkuthu, Sengulam, Pambla, Kakki and Moozhiyar was issued to M/s.Integrated Instruments and services, Muvattupuzha- 686 661 for Rs.43,90,556/-.
- Purchase order and work order for Supply and installation testing and integration of 7 Nos Mini RTUs for small hydro electric project power stations at Malamkara, Chembukadavu, Urumi-2, Moozhithodu, Vilangad, Barapole and Kallada was issued to M/s Alind, Thiruvananthapuram for Rs.50,74,455/-
- Purchase order and work order for Supply & Installation of PLCC with Protection coupler was issued to M/s CGL for Rs 17,59,019/-..Supply completed.
- Purchase order for Supply of PLCC Spares was issued to M/s ABB for Rs. 6,32,479/-.. Supply completed.

5.10. POWER SYSTEM ENGINEERING

- Conducted load flow studies for 82 cases
- Designed Earth Mat for 15 substations.

- Launched updated version of “Power System Engineering Module”(PSEM) software. Development, implementation and maintenance of the various business modules of PSEM software has been carried out. LFS module, online version of SOS module etc. launched.
- Assessed technical loss of transmission network for various voltage levels for 2014-15, 2015-16, 2016-17 & 2017-18.
- Started preliminary works for reactive power planning.
- Fault studies conducted, GIS mapping of new substations and lines for the preparation of Grid map.
- Obtained approval from Board for the revised long term transmission plan for 2013-2032-TransGrid 2.0 project.
- Started design frame work of development of web based module for Asset Commissioning and Maintenance System(A-CAMS), Ground Grid Design proposals, Project Monitoring, Technical Audit, Interruption reporting and analysis, Equipment failure reporting and analysis, Protective Device Management system, LFS modules etc.
- Updated case files in PSS/E and carried out studies towards assessing import capability of S2 region and Kerala.
- Prepared agenda points for 27th, 28th & 29th SRPC meeting and comments on agenda points for 39th Standing Committee of Power system planning.
- Prepared single line diagram for 2015.

5.11. INFORMATION TECHNOLOGY

- Updates of tariff change implemented through LT billing software 'Oruma' in all Electrical Section offices.
- In the Digital India Knowledge Exchange Summit 2016, hosted by the Department of Information Technology, Government of Kerala and IT Mission, Kerala, the project “IT Initiatives In Kerala State Electricity Board Ltd.” submitted by KSEBL won award in the category, “Best Digital India Initiatives“ among the projects nominated by various organizations from different states.
- Migrated about 680 Electrical Sections from Oruma software to OrumaNet which provides the facilities to consumers such as Online payment facility and Anywhere payment facility, Web based services for consumers like view of bills, payment history, consumption details, meter reading history, TOD billing for high value LT consumers.
- HRIS is integrated to Single Sign On Module in Data Centre. Modules for e-transfer, Service Book Digitalization, Training Management, Vigilance Wing Management, Welfare Fund Management, Auditing, Attendance Management System, and Gradation of Employees are also being developed.
- Pay revision 2016 has been successfully implemented in HRIS

- The HT/EHT billing system with web based consumer services software is in maintenance phase. Now the direct entry of meter reading HT/EHT consumers can be done from Electrical sections. The update of tariff change was implemented to the date.
- Integration of SARAS with the LT Billing applications software ORUMA/ORUMA net and SCM is progressing.
- Cash deposit machines were installed in CCC(Centralized Customer Care Centre)for easy bill remittance for consumers
- A corporate service centre has been started functioning at CCC to provide single window payment facility for bulk/corporate consumers.
- Pilot Implementation of e-office (paperless office) package has been done in about 25 KSEBL offices including corporate offices.
- A full fledged Data Centre is set up in Vydyuthi Bhavanam,Trivandrum for hosting the software applications of KSEBL.
- About 680 Electrical sections were connected to the Data Centre.
- 295,023 incoming calls and 248069 complaints were registered and attended in the Call Centre set up at Vydyuthi Bhavanam,Trivandrum.
- 708 e-tenders were published during 2015-16 with total value of about 1506 Cr.
- Video Conferencing System has been set up in Vydyuthi Bhavan,Trivandrum,220KV substation,Brahmapuram, 220KV substation,Vadakara.and is functional from April 2015.
- Software development for Geographical Information System, Meter Data Management System, Energy Audit, and Network Analysis completed. Asset survey of all RAPDRP towns completed.
- PDA (spot billing machines) around 690 Nos. in 32 RAPDRP towns have been deployed
- Facility Management Services(FMS) of RAPDRP-IT implementation has been initiated.

5.12 THERMAL PROJECTS

- Tenders were invited for the work Installation of Gas based Generator sets of total capacity 39.86MW at BDPP and after evaluation and prequalification, LOA was Issued to M/s Wartsila India Pvt.Ltd , Navi Mumbai for the Design, Engineering, Supply,Erection,Testing and Commissioning of new Gas based Generator sets at BDPP on 3-6-2015. Contract Agreements for both Offshore and On shore Supplies were signed on 25.11.2015 and Assignment Agreement on 30.11.2015.
- EIA study for gas based CCPP (350 – 475 MW) at Brahmapuram was conducted by the Consultant,M/s Bhagavathy Ana Labs,Hyderabad and has submitted a Draft EIA report.

- Discussions initiated with M/s. KINFRA to make available 15mld of water required for the 400 MW project at Brahmapuram, under Industrial water supply scheme. In principle approval is given by KSEBL for the scheme for combining the 15 MLD requirement of KSEBL with the 30 MLD scheme of KINFRA/KEPIP,Kakkanad at an additional capital cost of Rs 16.87 Crore.
- Took up the matter of transfer of FACT land with the Government. Negotiations at Government level is made with BPCL again, to bring down the price of Petcoke.
- E tenders were invited dtd 29.2.2016 from Southern Railways approved consultants carrying out feasibility study for providing railway siding to the proposed site of Thermal Power Project at Cheemeni. Application sent to District Collector,Kasargode on 19.11.2015 for transferring 2000acres of land now available under the Plantation Corporation at Cheemeni.
- E tenders were invited on 17-2-2016 for the procurement of 200MW of Solar power from Solar Power Plants from Independent developers within the state.

5.13 CIVIL INVESTIGATION AND PLANNING (I & P)

PERFORMANCE IN A NUT SHELL

Description	Achievement during 2015-16
Obtaining MNRE assistance for projects	13.107Cr
DPR approved by the DPR approval committee	1 No.
DPR completed and submitted for approval	1 No.
DPR under preparation	1 No

5.14 DAM SAFETY

- Checked the Gate operation of all important dams viz; Idukki, Pambla, Cheruthoni, Kakki, Idamalayar, Sholayar, Moozhiyar, Ponmudi, Sengulam, Neriamangalam, Lower Periyar, Kuttiadi, Kallar & Irattayar.
- Analogue data collections for seismic studies are done at Idukki, Chottupara, Kulamavu Aladi, Meencut and Vallakadavu seismic stations.
- Carried out the pre-monsoon as well as post-monsoon inspection of all major dams.
- KSEBL has been selected by the High level Jury for “**CBIP award for excellence in operation and maintenance of large dams**” in connection with the implementation of DRIP works.

5.15 INTERNAL AUDIT

5.15.1 Details of targets / achievement of inspection of offices and follow up action on inspection

- Regional Audit Offices conducted 358 General Inspections, 66 monthly bill inspections, 29 Division audits and 7 Circle audits, 68 Special audits, 6 site inspection reports and 251 Surprise audits.
- Regional Audit Offices conducted total 785 audits and assessed Rs.28.52 Cr and realized Rs.29.16 Cr. including arrears.
- Examined 4738 nos. of Service Books by 'Pay fixation section' including the Service Books received at the Head Quarters. Objections raised for Rs.39.3 lakhs and effected recovery including the previous arrear is Rs 52.12 lakh. Detailed audit circulars for implementing LTS 2016 for staff and Officers Pay Revision 2016 issued from this section during 03/2016.
- 1480 employees were admitted to GPF, 700 GPF accounts were closed having a total value of Rs.49.83 Cr. Allotted employee codes to 384 new employees.
- EAD & GAD sections pre-audited 20360 bills. Conducted field audits in 24 ARUs.
- SOR (Audit) section audited 2631 accounts/related documents pertaining to HT/EHT consumers with a total value of 1880 Crores.
- Work Audit section pre-audited 2751 bills, which involved an amount of Rs.23.99 Cr.
- Pension Audit section raised objections to Rs.71.06 lakhs and realized Rs. 163 lakh including recoveries related to past periods. Audit circular with illustrations was prepared in connection with pension revision.
- Resident concurrent Audit section pre-checked 2030 bills valued Rs 385.47Cr
-

5.15.2 AUDIT REPORT INTERFACE

- The Audit Report Interface section had furnished replies to 11 reports having 28 Recommendations of Committee on Public Undertakings and 4 reports containing 4 recommendations of Committee on Public Accounts. Replies to 3 Audit Paras(Comml),2 Audit Paras(Revenue Receipt),4 Draft Paras, 2 Statement of Facts,3 Draft Reviews comprising 87 paras and 3 Audit Reviews containing 60 paras were submitted to the Accountant General/Government
- 35 inspection reports were closed and 180 inspection report paras were got dropped.

5.16 LEGAL WING

- Law Section has taken part in 32 Lok Adalaths at various courts. 389 cases settled in Adalaths for an amount of Rs.4.64 Cr as additional compensation for tree-cutting in connection with the line construction against a claim of Rs. 36.86 Cr.
- Out of the 18795 cases present in various courts, including that pending from previous years, 5347 cases disposed during the year.

5.16.1 Details of court cases

No.of cases pending as on 1.4.2015	15063 Nos
Cases filed during the year	3732 Nos
Total	18795 Nos
Cases disposed during the year	5347 Nos
Pending cases as on 31.3.2016	13448 Nos

5.16.2 Appeals

No.of cases pending as on 1.4.2015	582 Nos
Cases filed during the year	344 Nos
Total	926 Nos
Cases disposed during the year	212 Nos
Pending cases as on 31.3.2016	714 Nos

5.16.3 Details with respect to Lok Adalaths conducted by various district courts and other judicial for from 1.4.2015 TO 31.3.2016

No.of cases settled (Nos)	389
Claim Amount (Cr)	36.964
Settled Amount (Cr)	4.648

5.17 PERSONNEL DEPARTMENT

- Issued Board order for revising Dearness Pay/Dearness Relief to the employees/pensioners with effect from 1-7-2015.

Details of compensation claims disbursed/sanctioned for accidents are given below.

Description	Amount disbursed / sanctioned (Rs.)
Fatal and non-fatal accidents to petty contractors	76,82,396
Fatal and non-fatal accidents to employees	84,02,244
Reimbursement of medical claims to the accident victims	82,19,975
Claims to electrical accidents to Public	1,28,20,000
Claims to electrocution to cattle	7,55,000

Details of Employees Welfare Fund disbursed are shown below.

Description	No. of employees	Amount disbursed(Rs).
Retirement benefit	602	1,67,90,439
Legal heirs of deceased employees	83	3,92,06,187
Retired on invalid grounds	1	14,583
Voluntary retirement benefit	6	1,43,106
Resignation benefit	7	41200
Dismissed from service	14	1,40,797
Educational cash awards to class X students	378	13,23,378
Educational cash awards to class XII students	200	10,00,200

5.18 PUBLIC RELATIONS WING

- Arranged telecasting on a weekly half an hour television programme (Spandanam) on Dooradarshan on Saturdays and Sundays .Documentary films highlighting the consumer friendly activities and achievements of KSEBL are being produced by this department and exhibited on various occasions, Publishing of "SPANDANAM" a news letter.
- Based on the Safety Allocation Budget 2015-16,created documentaries, short animated strips, video news releases to convey the message related to safety of public through Visual and Social media, Leaflets and name slips showing safety messages were printed and distributed among KSEB offices.
- Arranged for the production of short animation videos with the characters of Cartoon Series, Boban and Molly to disseminate messages related to 'Labhaprabha season 3',Energy Conservation, Electrical safety and new online and web related services of KSEBL.
- Wide publicity of the online related services offered through Call Centre through social media and FM radio channels, theatres and through handing out of leaflets as part of implementation of Centralised Customer Care Centre module under RAPDRP scheme, have been done by this wing.
- Participated in more than 25 exhibitions, trade fairs etc.which is conducted by Universities, Colleges, Schools, Societies, Block Panchayaths, Temple and Church festivals, Govt. departments etc by arranging stalls.
- Wide publicity of Electrical safety and Energy Conservation through advertisements in Magazines and Souvenirs of various exhibitions and sponsorship of seminars and other functions.

- A 32 page booklet “Oorjam” 2011-2016” showing the achievements of KSEBL for the last 5 years the array of services offered by KSEBL along with modernization drive through RAPDRP, Central projects ,initiatives in innovation etc.had been designed published and distributed among various offices of KSEBL and the key publics of Kerala.
- Participated in the procession in connection with the 67th Republic day celebrations arranged by the revenue authorities, Kottarakkara to disseminate the messages of Energy conservation and Electrical safety and given full page back cover advertisement to popularize the promotions on Energy efficiency and Renewable energy, Energy conservation and other services offered by KSEBL. in Triveni note books.
- The wing has initiated the production and screening of short animation video for promoting online payment in movie theatres across Kerala.

5.19 SPECIAL OFFICER (REVENUE)

The details of number of HT/EHT consumers, demand and collection as on 31.03.2016 are given below.

EHT consumers	51 Nos.
HT consumers	5043 Nos.
Licensees (consumers)	46 Nos
Demand	3414.71 Cr
Collection	3124.29 Cr

5.20 SUPPLY CHAIN MANAGEMENT

- Store verification of Sub regional stores (25Nos), Manufacturing facilities (3Nos), TMR Division stores (5Nos.), Transmission Division store (1 No) and Generation circle stores (7 Nos) done by Store verification unit.
- Extended the validity of the Memorandum of Understanding signed with M/s. CPRI, Bangalore to carry out vendor empanelment for a further period of one year from 5.1.2016
- Request for vendor registration was invited for 31 categories of various distribution and transformer materials on 30.11.2015.A total of 58 firms were registered as vendors for 76 items till date.
- Realised an amount of Rs.20.15 Cr. through scrap disposal .
- Prepared Cost data for Transmission materials as on 30.9.15 and 31.3.16 and published in the website.
- Conducted 61Nos. of e-auction for the disposal of selected scrap items through the web portal of M/s. MSTC Ltd, Bangalore and realised Rs. 13.02 Cr.

Details of purchase orders Issued for procuring the materials centrally are listed below.

Sl. No.	Item	Rs. in Cr
1	Distribution Materials	114.2
2	Transmission materials	258.48
3	PSC poles	140.24
3	MS Rod, MS Flat, MS Angle, MS Channel, GI Pipe	12
4	Computer, UPS	8.24
	Total	532.64

5.21 VIGILANCE & APTS

Particulars		
Vigilance		
Petitions received for vigilance enquiry		1166 Nos.
Enquiry ordered		1166 Nos
Enquiry completed and report submitted		793 Cases
References handled		5175 Nos.
Complaints received over phone and rectified		745 Nos
Disciplinary proceedings/pending vigilance cases processed relating to incumbents		1002 Nos.
APTS		
Inspections conducted by APTS		34313 Nos.
Irregularities detected		4524 Nos
Theft detected		449 Cases
Total Amount assessed		Rs.31.33 Cr.
Total Amount realised		Rs.18.69 Cr.

5.22 LAND MANAGEMENT UNIT (LMU)

(1) About 964 Land parcels (Non Forest Land) were entered in the database.

- Distribution profit centre-50 land parcels having 22.32 Hectares(55.14Acres)
- Transmission profit centre-205 land parcels having 510.2315 Hectares(1260.27Acres)
- Generation profit centre-630 land parcels having 6936.87 Hectares (17134.07 Acres)

(2) Formulated Land Management policy for KSEBL.KSEBL is the first PSU in the Kerala State to bring out a policy document on land.

(3) An extent of 26.8Hectares (66.19Acres) of land in prime locations were got mutated in favour of KSEBL.

(4) Copies of 416 Awards relating to various landed properties of KSEBL have been traced out from different sources and uploaded.

6. SCHEMES FUNDED BY CENTRAL/ STATE / OTHER AGENCIES

6.1 RAJIV GANDHI GRAMEEN VYDYUDHIKARAN YOJANA (RGGVY)

Details of achievements of XI Plan RGGVY works (I & II phase) as on 31.03.2016 is tabulated below.

Sl. No	District	Sanctioned project cost (Rs. lakh)	Amount received from REC (Rs lakh)	Expenditure (Rs. lakh)	Date of completion
1	Thiruvananthapuram	2182.13	1197.032	1303.8	30.11.2015
2	Kollam	328.05	180.208	479.00	31.03.2015
3	Pathanamthitta	575.65	316.912	646.6	31.03.2015
4	Alappuzha	1366.81	753.24	1425.32	31.03.2015
5	Kottayam	796.51	436.94	619.26	30.11.2015
6	Ernakulam	2471.24	698.91	555.86	30.11.2015
7	Thrissur	1262.70	693.56	700.07	30.09.2015
8	Kasargode	1460.71	1149.58	1445.61	31.12.2014
9	Kannur	1971.40	1439.47	2285.51	31.12.2014
10	Kozhikode	1692.93	1212.29	1675.27	31.12.2014
11	Wayanad	1433.44	968.6	1571.89	31.12.2014
12	Palakkad	1635.40	1127.08	1716.95	31.12.2014
13	Malappuram	3263.46	2524.908	3147.1	31.03.2015

6.2 DEEN DAYAL UPADHYA GRAM JYOYHI YOJANA (DDUGJY)

Government of India sanctioned a total amount of Rs 485.37 Cr. for implementing DDUGJY in Kerala on 5.1.2016 as detailed below. Work include 33KV substations, 33KV lines, 11KV lines, distribution transformers, HT and LT lines, replacement of energy meters, BPL service connections etc.

Sl. No	Name of District	* Sansad Adarsh Gram Yojna	** Metering	Connec ting Unconn ected Hhs	System Strengt hening	Total sanctioned Cost (In Cr.)
1	Alappuzha	5.33	21.67	7.38	5.13	39.51
2	Ernakulam	3.23	19.18	5.11	10.50	38.02
3	Idukki	0.14	20.80	4.80	12.36	38.10
4	Kannur	2.67	23.59	9.73	3.46	39.45
5	Kasaragod	1.79	5.36	1.17	1.06	9.38
6	Kollam	3.64	17.36	4.47	8.58	34.05
7	Kottayam	4.03	20.24	6.53	11.62	42.42
8	Kozhikode	10.40	19.48	7.67	1.89	39.44
9	Malappuram	2.71	10.72	11.84	5.55	30.82
10	Palakkad	2.76	19.73	2.35	3.49	28.33

11	Pathanamthitta	5.03	8.35	6.18	6.02	25.58
12	Thiruvananthapuram	15.75	22.69	8.11	6.16	52.71
13	Thrissur	0.41	37.73	3.76	4.84	46.74
14	Wayanad	1.25	12.26	2.50	2.40	18.41
	Total	59.14	259.16	81.60	83.06	482.96
	PMA Charges					2.41
	Total					485.37

*Works exclusively for the Panchayats selected by the representative member of Parliament under Saansad Adarsh Gram Yojana (SAGY).

** Replacement of faulty and electro-mechanical meters with static meters to reduce AT & C loss

6.2 R- APDRP

The following works completed under R-APDRP Part-B amounting to Rs. 566.24 Cr against target amount of 1078.3Cr.

Description	Quantity
Construction of HT OH line	1393 km
Laying of HT UG Cable	796km
Reconductoring of HT OH line	496 km
Installation of distribution transformers	2056 Nos.
Construction of LT line	210 km
Reconductoring/conversion of LT line	5404 km
Replacing faulty/mechanical meters with electrostatic meters.	1037912 Nos.

6.3 LOCAL AREA DEVELOPMENT (LAD) WORKS

The physical and financial status of work carried out through MLA LAD fund is given below.

Region	Total no. of work	Completed work	Balance work	Amount remitted (Rs. lakh)	Amount for which work was completed (Rs. lakh)	Balance Amount (Rs. lakh)
South	64	51	13	82.5264	59.3507	23.1757
Central	42	37	5	66.952	56.9425	10.01
North	42	36	6	62.01	54.16	7.85
Total	148	124	24	211.488	170.453	41.035

The physical and financial progress of works carried out using MP LAD fund is given below.

Region	Total no. of works	Completed works	Balance work	Amount remitted (Rs. lakh)	Amount for which work was completed (Rs. lakh)	Balance Amount (Rs. lakh)
South	9	9	0	15.6908	15.6908	0
Central	18	17	1	60.1912	56.6392	3.552
North	3	1	2	32.53	11.88	20.65
Total	30	27	3	108.412	84.21	24.202

6.4 KERALA DEVELOPMENT SCHEME

Kerala Development Scheme works are distribution activities taken up by local bodies with their funds through KSEBL. The progress of work is given below.

Region	Total no. of works	Completed works	Balance work	Amount remitted (Rs. lakh)	Amount for which work was completed (Rs. lakh)	Balance amount (Rs. lakh)
South	921	732	189	1681.0194	1015.889	665.1301
Central	783	529	254	1554.1085	796.241	757.8675
North	700	489	211	1426.9	845.08	581.82
Total	2404	1750	654	4662.027	2657.21	2004.8176

7. FINANCES & ACCOUNTS

7.1 REVENUE RECEIPTS & EXPENDITURE(PROVISIONAL)

Total income for the year 2015-16 was Rs.11247.15 Cr. and the expenditure was Rs.11564.84 Cr. Statement of profit and loss for the year ended 31st March 2016 closed the account with Rs. 313.29 Cr. as loss. The details are shown below.

Rs. lakh

	Particulars	As at 31.03.2016	As at 31.03.2015
I	Revenue from operations	1,091,443.61	10,11,625.98
II	Other income	33,271.34	29,661.07
III	Total revenue (I+II)	1,124,714.95	10,41,287.05
IV	Expenses		
	Purchase of power	633,681.62	6,78,276.09
	Generation of power	10,425.53	20,991.20
	Repairs and maintenance	25,975.64	24,443.94
	Employee cost	310,453.25	2,72,084.04
	Administration & General expenses	32787.47	27,575.31
	Finance Cost	85,140.75	85,346.20
	Depreciation and Amortization expenses	49,122.12	45,969.87
	Others	8,898.01	14,624.31
	Total Expenses	1,156,484.39	11,69,310.96
V	Add/(less): Prior period credits/(charges)	440.09	733.71
VI	Profit/(loss) before exceptional and extra ordinary items and tax (III-IV+V)	(31,329.35)	(1,27,290.20)
VII	Exceptional items	-	-
VIII	Profit/(loss) before extra ordinary items and tax (VI-VII)	(31,329.35)	(1,27,290.20)
IX	Extraordinary items	-	-
X	Profit/(loss) before tax (VIII-IX)	(31,329.35)	(1,27,290.20)
XI	Tax expenses		
	Current tax	-	-
	Deferred tax	-	-
XII	Profit/(loss) for the period from continuing operations (VIII-IX)	(31,329.35)	(1,27,290.20)
XIII	Profit/(loss) from discontinuing operations	-	-
XIV	Tax expenses of discontinuing operations	-	-
XV	Profit/(loss) from discontinuing operations after tax (XIII-XIV)	-	-
XVI	Profit/(loss) for the period (XII+XV)	(31,329.35)	(1,27,290.20)
XVII	Earnings per equity share		
	(i) Basic	(0.90)	(3.64)
	(ii) Diluted	(0.90)	(3.64)

Balance Sheet as on 31st March 2016 is shown below.

Sl. No.	Liabilities	Rs. in lakhs	Sl. No.	Assets	Rs. in lakhs
1	a. Share Capital	349,905.00	1	Non-Current assets	
	b. Reserves and surplus	(161,372.18)		a. Fixed Assets	2216438.72
2	Contribution, grants and other long term reserve funds	83,206.16		b. Noncurrent investment	2000.01
3	Non Current Liabilities			c. Long term loans and advances	8671.86
	a. Long term borrowings	375,350.89		d. Other noncurrent assets	760,372.65
	b. Other long term liabilities	279,627.89	2	Current assets	
	c. Long term provisions	1,657,416.11		a. Current investments	-
4	Current liabilities			b. Inventories	29,010.86
	a. Short term borrowings	217,193.97		c. Trade receivables	159,279.56
	c. Trade payables	52,614.15		d. Cash and cash equivalents	24,162.91
	e. Other short term liabilities	352,985.96		e. Short term loan and advances	5090.12
	f. Short term provisions	2085.00		f. Other current assets	3986.27
	TOTAL	3,209,012.95		TOTAL	3,209,012.95

7.2 BORROWINGS & LOAN

Company borrowed Rs.2570.55 Cr. during 2015-16 from various financial institutions as against Rs.3510.91Cr. during 2014-15. Company had an outstanding long term loan of Rs. 3753.51Cr. including payments due on capital liabilities at the end of March 2016. The outstanding loan as on March 2015 was Rs.3699.35 Cr.

7.3 BORROWINGS AND LIABILITIES

As may be seen given below, there has been an increase in the loan outstanding and the interest expenditure during the year 2015-16.

Rs. crore

Year	Loan outstanding	Loan received	Repayment	Closing balance	Increase over previous year	Interest due for payment	Increase in interest over previous year
2013-14	2134.20	3336.86	2513.57	2957.49	823.3	127.28	34.93
2014-15	2957.49	3510.91	2769.04	3699.36	741.86	360.62	233.34
2015-16	3699.35	2570.55	2516.39	3753.51	54.15	403.33	42.71

7.4 REVENUE FROM SALE OF POWER

Revenue earned from sale of power and other income is given below.

SI No	Particulars	2015-16	2014-15
1	Energy sold (MU)		
	To the consumers within the State	19353.67	18426.27
	Outside the state	53.48	358.09
	Total sale	19407.15	18784.36
2	Revenue(Cr.)		
	From Tariff	10914.44	10116.26
	Non tariff	332.71	296.61
	Total (Rs. Cr.)	11247.15	10412.87

7.5 BUDGET PROVISIONS / EXPENDITURE OF THE ORGANISATION

Budget estimate and revised estimate for capital works and the expenditure made is given below.

Sector	Budget Estimate (Rs. Cr)	Revised Estimate (Rs. Cr)	Expenditure (Rs. Cr)
Generation	385.65	383.30	210.30
Transmission	240.00	185.00	232.23
Distribution	710.00	615.00	594.12
Others	17.35	21.70	7.21
Total	1353.00	1205.00	1043.86

8. EVENTS

8.1 IMPORTANT CAMPAIGNS BROUGHT OUT BY THE ORGANIZATION

- The wing cooperated with “The Earth Hour Campaign “of WWF 29th March 2016 by issuing a circular to switch off lights from 8.30PM to 9.30PM.
- Arrangements were made for the production of short animation videos with the characters of Cartoon Series, Boban and Molly to disseminate messages related to Labhaprabha season 3, Energy Conservation, Electrical safety and new online and web related services of KSEBL.
- A 32 pages booklet “Oorjam 2011-2016” showing the advertisements of KSEBL for the past 5 years the array of services offered by KSEBL along with modernization drive through RAPDRP, Central projects, initiatives in innovation etc. had been designed published and distributed among various offices of KSEBL and the key publics of Kerala.
- Arrangements were made to release a full page back cover advertisement to popularize the promotions on Energy efficiency, Renewable energy, Energy conservation and other services offered by KSEBL in Triveni Notebooks which are distributed throughout the state.

8.2 PARTICIPATION IN FAIRS, EXHIBITIONS

Conducted exhibitions at different places in co-ordination with field offices to convey the messages on Energy Conservation, Electrical Safety etc.

- Participated in more than 25 exhibitions, trade fairs etc. which is conducted by Universities, Colleges, Schools, Societies, Block Panchayaths, Temple and Church festivals, Govt. departments etc.
- Steps taken to distribute grid connected solar plant to 8 schools for ensuring participation of maximum number of students in the “Labhaprabha 2014” campaign. Consolation prizes like solar lantern will be given to the leaders who coordinated the programme.
- Participated in the procession in connection with the 67th Republic day celebrations arranged by the revenue authorities, Kottarakkara to disseminate the messages of Energy conservation and Electrical safety.
- Documentary films highlighting the consumer friendly activities and achievements of KSEBL are exhibited on various occasions.

9. HIGHLIGHTS OF KERALA POWER SYSTEM

Total Installed generating capacity	2875.15	MW	
Storage as on 01-04-2015	2038.096	MU	
Inflow	5791.05	MU	
Storage as on 31-3-2016	1628.911	MU	
The total generation	6791.85	MU	
Auxiliary consumption	52.60	MU	
Purchase through Traders	3086.84	MU	at Kerala Periphery
Purchase through Power exchange	715.21	MU	at Kerala Periphery
Swap Return	75.41	MU	at Kerala Periphery
Sale through Power exchange (at SR)	53.48	MU	at Kerala Periphery
CGS share	11048.70	MU	at Kerala Periphery
UI import/Deviation(+)	731.58	MU	@ average rate of Rs.1.98/-
UI export /Deviation(-)	38.24	MU	@ average rate of Rs.1.81/-
Total Power purchase	15897.76	MU	at Kerala Periphery
Total Generation and power purchase excluding PGCIL loss and Auxiliary consumption	22637.0	MU	
External PGCIL loss	550.60	MU	
Energy sale inside the state by KSEB	19325.07	MU	
Energy consumption within state including open access consumers	19460.32	MU	
Open access purchase at Kerala periphery/consumer end	142.00 MU / 135.25 MU		
Energy injection at generator end/KSEB periphery for sale through open access outside the state	40.44MU / 38.63 MU		
T&D loss in KSEBL system (including the loss on account of energy purchased/sale through open access)	3267.02	MU	(14.37%)
Maximum peak demand recoded	3860	MW	(28.3.2016 , 19:00-19:30 hrs)
Unrestricted peak demand	3985	MW	(28.3.2016 , 19:00-19:30 hrs)
Maximum daily consumption recorded	76.743MU		(31-3-2016)
Length of EHT lines	9367.97	KM	
Length of HT lines(11/22/33KV)	59476.66	KM	
Length of LT lines	285970	KM	
No.of EHT substations	250	Nos.	
No.of Distribution transformers	73460	Nos.	
Total consumers	11668031	Nos.	

10. MISCELLANEOUS MATTERS

10.1 GRIEVANCE REDRESSAL MECHANISM IN THE ORGANISATION

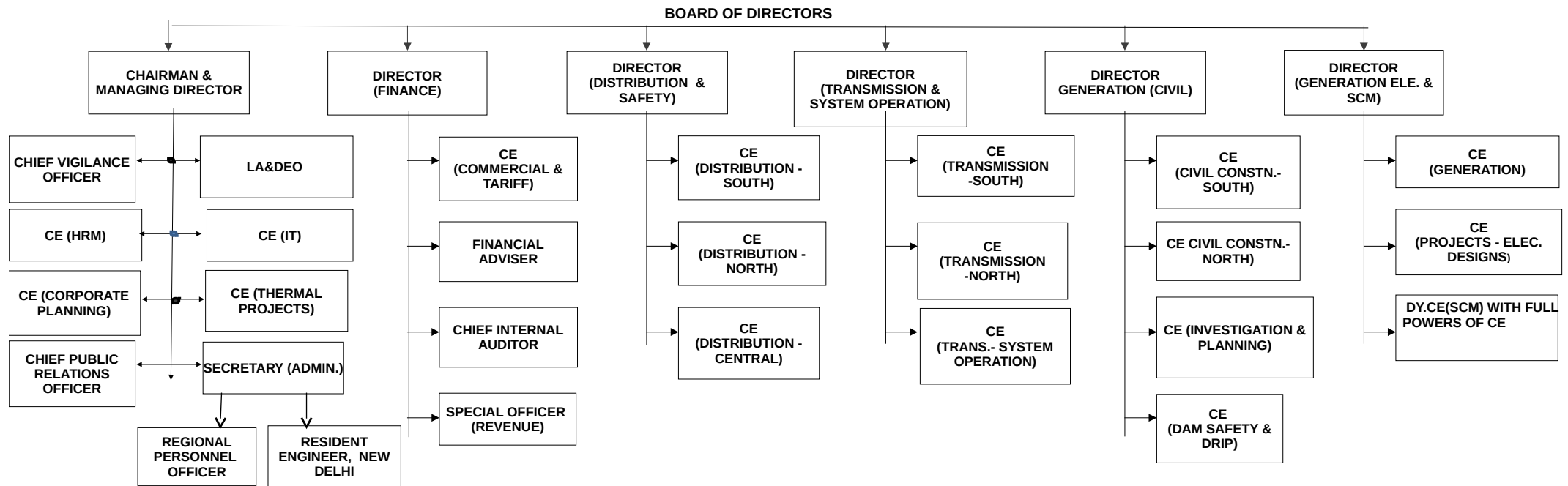
Details of complaints received, settled and pending for disposal are given below.

	South	Central	North	Total
Complaints received	384	173	260	817
Complaints settled	316	137	221	674
Complaints to be settled	68	36	39	143

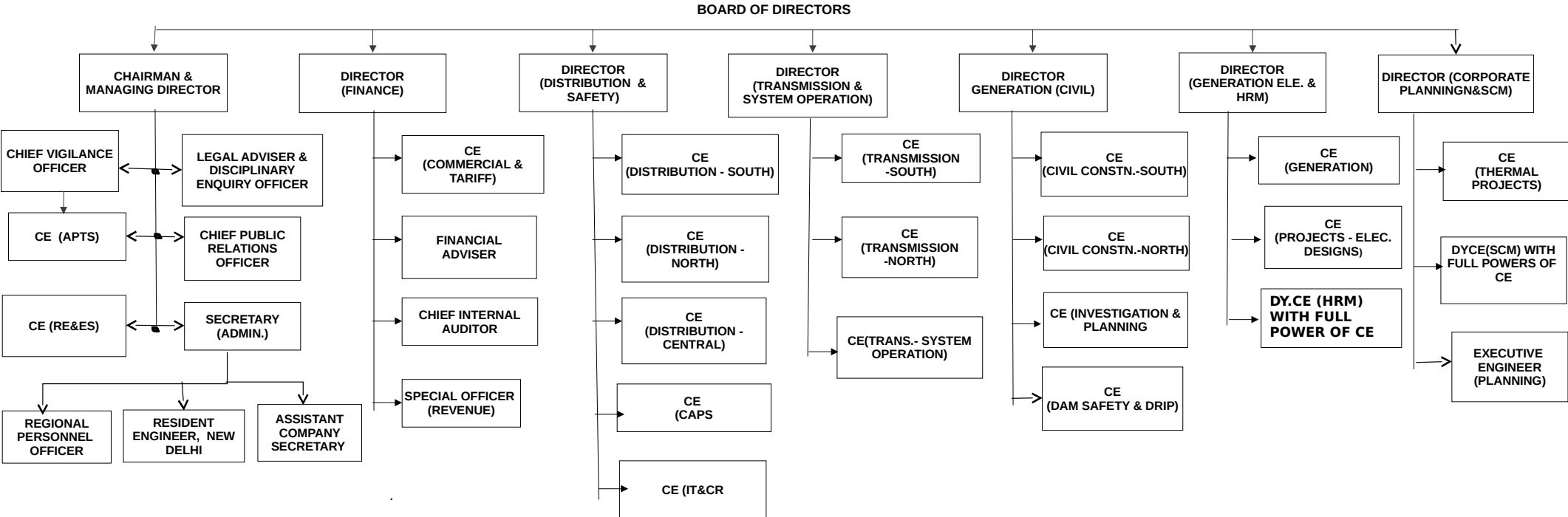
10.2 DEPARTMENTAL PUBLICATIONS

1. System Operation
2. Power System Statistics
3. Spandanam
4. ARR & ERC
5. Annual Accounts
6. Budget Estimate
7. Annual Plan
8. Annual Administration Report
9. Oorjam

ORGANISATION CHART FOR THE PERIOD FROM 1.04.15 TO 30.05.2015



ORGANISATION CHART FOR THE PERIOD FROM 31.05.2015 TO 02.03.2016



ORGANISATION CHART FOR THE PERIOD FROM 03.03.16 TO 31.03.2016

