

PREFACE


It is a matter of satisfaction that First Annual Administrative Report of Himachal Pradesh State Electricity Board Limited is being published for the year ending 31st March, 2011. HPSEB was established in 1971, as a body constituted under Section 5 of the erstwhile Electricity (Supply) Act, 1948 and has been responsible for coordinated development of power potential, generation, transmission and distribution of electricity within the State of Himachal Pradesh up to 10th June, 2010, when Govt. of Himachal Pradesh in exercise of Power under Section 131 (2), 132, 133 and other enabling provisions of Electricity Act 2003, vide the 'Himachal Pradesh Power Sector Reforms Transfer Scheme, 2010' transferred the functions of generation, distribution & trading of electricity to Himachal Pradesh State Electricity Board Limited (HPSEBL) established for the purpose.

From a humble beginning of serving only 1,79,616 consumers in 1971-72, HPSEBL was serving 15,23,837 consumers in 2001-02 and the numbers rose further to 19,69,397 in 2010-11 being serviced through 37 EHV, 22463 distribution sub stations and 86000 Km of HT & LT lines laid across the State. In 1971 the State had only 3279 electrified villages and with dedicated efforts of HPSEB staff, Himachal Pradesh became the first hilly State in the country to achieve 100% electrification of all census villages way back in the year 1988. Per capita consumption which was 61kwh during 1975 is presently 969kwh which speaks volumes of economic progress by the State. Also along the course, hydel potential of more than 21000 MW was identified which is being harnessed by all the stake holders i.e. State, Centre and IPPs under a multi-pronged strategy adopted by Govt. of H.P. to harness the potential expeditiously.

HPSEBL resolutely continues its efforts to provide environment friendly, quality and reliable power to all sections of society at competitive rates on sustainable basis. During the year under report, the targets for achieving the goals set out under Power Sector Reforms, implementation of IT initiatives under R-APDRP, computerized billing & accounting, GIS/GPS based asset valuation, ERP etc. remained high on agenda of BOD of this newly restructured set up. Results for 2010-11 indicate continuing trend of improvement in operating performance through strategic planning, timely execution of schemes / works & meticulous monitoring. T&D losses within the State have been brought down from 14.71% to 12.73% and also AT&C losses from 26.28% to 24.12%. Besides, EHV, HV & LV distribution system was strengthened by 678 Km of HT lines, 1109 Km of LT lines, 1 No. EHV Sub Station and 1161 Nos. of Distribution Sub Stations during 2010-11.

I wish to express my gratitude to the Govt. of H.P., HPERC and to Directors of Board for their support and encouragement. I place on record my sincere appreciation for the contribution made by the employees at all levels and thank them for their cooperation and support.

Shimla
31.03.2012


R.D. Dhiman
Chairman-cum-Managing Director

FIRST ANNUAL ADMINISTRATION REPORT

2010-2011

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HIGHLIGHTS:

S.No.	Item	Unit	Achievements 31.3.2010	Ending 31.3.2011
1	INSTALLED CAPACITY			
	a) Hydro	MW	466.95	466.95
	b) Diesel	MW	0.133	0.133
	Total	MW	467.083	467.083
2	RURAL ELECTRIFICATION			
	a) Villages Electrified	Nos.	17386	17415
	(Total as per 2001 Census 17495)	%	99.38%	99.54%
	b) Harijan Houses Electrified	Nos.	64424	65125
	c) Hamlets Electrified	Nos.	4623	4623
	*Total identified Hamlets=4182(5/89 Survey)	Nos.	4036(I)+587(UI)	4036(I)+587(UI)
	d) Pump-sets/Tubewells Energized	Nos.	15932	17639
	e) Consumers Connected	Nos.	1917689	1969397
	f) Connected Load	KW	4758077	5078152
	g) Distribution Sub-Stations	Nos.	21302	22463
		KVA	1834671	1904083
	h) HT Lines	Ckt.Km	30860	31538
	i) LT Lines	Km.	53797	54906
3	NET FIXED ASSETS:	Rs. In Lacs.	388963.07	389537.76

S.No.	Item	Unit	2008-09	2009-10
4	Energy Generated	MU	1804.14	2045.26
5	Energy Purchased	MU	6616.369	7649.42
6	Energy Sold			
	a) Within the State	MU	5814.329	6641.59
	b) Outside the State	MU	1284.020	1704.61
	c) Wheeling	MU	2326.830	2198.810
	Total (a+b)	MU	7098.349	8346.20
7	T&D Lossess	%	14.71	12.73
8	Maximum Demand	MW	1151	1278
9	Per Capita Consumption	KWH	864	969
10	Revenue from sale of Power	in Lac	297835.10	344963.13
11	Gross Revenue	in Lac	296606.32	353837.65

HIMACHAL PRADESH STATE ELECTRICITY BOARD LIMITED

COMPOSITION OF THE HPSEB LTD. (BOARD)

(1.4.2010 TO 31.3.2011)

S.No.	Description	Name	Period
1	Chairman-cum- Managing Director	Sh. Subhash C. Negi, IAS	01.04.2010 to 31.01.2011
		Sh. Deepak Sanan, IAS	01.02.2011 to 31.03.2011
2	Director (Personnel)	Sh. S.K.B.S. Negi, IAS	01.04.2010 to 31.03.2011
3	Director (Finance)	Sh. S.K.B.S. Negi, IAS	01.04.2010 to 31.03.2011
4	Director (Projects)	Er. B.S. Negi	01.04.2010 to 09.04.2010
		Er. R.M. Gupta	09.04.2010 to 30.04.2010
		Er. A.K. Dutta	10.05.2010 to 31.03.2011
5	Director (Technical)	Er. R.K. Dhiman	01.04.2010 to 31.12.2010
		Er. R.C Khillan	05.01.2011 to 31.03.2011
6	Director (Operation)	Er. S.K.Chaudhary	01.04.2010 to 31.05.2010
		Er. N.S. Bal	27.07.2010 to 31.12.2010
		Er. S.D. Rattan	05.01.2011 to 31.03.2011
7	Ex-Officio Director	Sh.Deepak Sanan, IAS Pr. Secretary (Power)	14.06.2010 to 31.03.2011
8	Ex-Officio Director	Sh.Ajay Tayagi, IAS Pr. Secretary (Finance)	14.06.2010 to 31.03.2011

ORGANIZATION & ADMINISTRATION

2.1. GENERAL:

The Himachal Pradesh State Electricity Board was constituted on the first day of September, 1971 in accordance with the Electricity (Supply) Act, 1948. which has been re-organized as Himachal Pradesh State Electricity Board Ltd. w.e.f. 14.06.10 under Company Act.1956. This First Annual Administration Report of the Himachal Pradesh State Electricity Board Ltd. for the year 2010-11 is being submitted to the State Government in pursuance of section 619-A of Company Act.1956.

2.2 CONSTITUTION OF THE BOARD:

In accordance with the Electricity (Supply) Act, 1948, read with section 131(I) of Electricity Act, 2003, the H.P. State Electricity Board Limited is constituted with eight Directors including the Chairman-cum-Managing Director, notified vide Notification No. MPP-A(I)-4 2009 dated 05.05.2010 and No. MPP-A (I)-4 /2009 dated 15.06.2010, which constitutes the Full Board. Out of eight Directors, six are Whole Time Directors including the Chairman-cum-Managing Director and two are EX-Officio Directors. Full Board (Board of Directors) is the supreme decision making authority of the H.P. State Electricity Board Limited. Six Whole Time Directors, collectively, are the second level decision making authority of the HPSEBL. Besides, each one of them is overall in-charge in respect of the assigned specific area of responsibility in the HPSEBL on a functional basis. The Executive Director (Pers.) and Chief Engineer (P&M) assist in the transaction/processing of cases for decision of the HPSEBL(Board).

2.3 MEETINGS:

During the year 2010-11, i.e.(w.e.f. 1.4.2010 to 31.3.2011) following meetings of the Board were held :

A. HPSEB's Meetings (1.4.2010 to 13.6.2010):

(i)	Management Committee (Full Board) Meetings	=	2
(ii)	Whole Time Members Meetings	=	5

B. HPSEBL's Meetings (14.6.2010 to 31.3.2011):

(i)	Board of Directors (Full Board) Meetings	=	5
(ii)	Whole Time Directors Meetings	=	8

2.4. ORGANISATIONAL SET UP:

The Head Office of the HPSEBL is located at Shimla. Overall control on different activities is exercised by the HPSEBL. through Administrative, Technical, and Finance & Accounts Wings. Organizational Structure of the HPSEBL as on 31.3.2011, is displayed in the Organizational Chart, preceding Chapter-2.

2.5 BOARD SECRETARIAT:

The Executive Director (Personnel) is overall in charge of Board's Sectt. in administrative matters and he acts as the Chief Executive Officer of the HPSEBL. He also acts as a link between the HPSEBL (Board) and Chief Engineer(s) as well as other Heads of Department in respect of personnel matters. The Executive Director (Personnel) is the Ex-Officio Vigilance Officer of HPSEBL Public Relation, Gaz. Estt./ Non-Gazetted Estt., HRD, R&E, Salary Admn., Confidential, PUC, Field & Tech. Estt. and Genl. Admn. of HPSEBL Sectt. Office as well as Land Acquisition Unit Legal Unit/ Personal Officer Unit/ Industrial Relation Unit, are also working under his administrative control.

2.6 CHIEF ENGINEER (P&M):

The Chief Engineer (P&M) is dealing with all technical matters concerned with Planning, Monitoring, Statistical data maintenance, Co ordination between different wings of the HPSEBL, including liaison with State and Central Govt. with regard to the activities of the HPSEBL (Board) and other works, pertaining to processing and sanction of estimates and project schemes etc. The monitoring and control at the HPSEBL (Board) level is being very effectively exercised with the introduction of modern management tools like CPM/PERT charts. Organizational set up of Chief Engineer (P&M) as on 31.3.2011, is given in the Organization Chart.

2.7 LEGAL UNIT:

The Legal unit in HPSEBL is headed by the Dy. Secretary (Law), who is assisted by the Law Officer Gr.I and other Secretarial staff. This unit renders advice on all the legal matters such as Civil, Criminal, Revenue, Service, Labour and Taxation etc. to the various units of the Board and its field units / offices.

The cases in the Hon'ble High Court of H.P. are prosecuted / defended by the Standing Counsel-cum-Legal Advisers and the cases in the Lower courts are entrusted to panel of lawyers notified by the HPSEBL. The writ petitions, complaints, etc. are however processed by the Legal Unit.

With the coming in force of Board's Notification bearing No. 465 dated 15.10.1988, read with office order bearing No. 170 dated 24.8.2009, all the High Court cases are examined, replies drafted and vetted by the Legal Unit, including the examination, preparation and finalization of the Lower Court matters. Besides, legal notices served on the Organization by the various Advocates/parties are examined in Legal Unit.

The Legal Unit supervises out-station matters / cases in various courts and has also been rendering assistance on legal matters to the officers of the Board as and when sought.

In addition, tendering of opinion on each and every reference emanating from various units of the HPSEBL is regular feature of the Legal Unit. The matters regulating the claims on account of compensation are also examined in the Legal Unit.

2.8 VIGILANCE/INQUIRY UNIT:

The Executive Director (Personal), HPSEBL, is the Ex officio Vigilance Officer of the HPSEBL (Board). All the vigilance/disciplinary cases, including complaints and inquiries are dealt by this unit.

The position of inquiry cases initiated /finalized against officers/officials during the year under report is tabulated as under:-

Sr.No	Description	Cases pending as on 31.3.2010	Cases initiated during 2010-11	Cases finalized during 2010-11	Cases pending as on 31.3.2011
(i)	Cases against officers	17	5	13	9
(ii)	Cases against officials	149	14	28	135
	Total:-	166	19	41	144

2.9 INDUSTRIAL RELATIONS UNIT:

This unit is headed by Dy. Director, (Industrial Relation). The main function of this Unit is to render advice on various labour problems and to maintain industrial harmony and cordial relations between the Management and Employees of the HPSEBL (Board). The relations of the HPSEBL (Board) and its employees remained cordial throughout the year. Under Section 3 of the Industrial Dispute Act, 1947, the HPSEBL (Board) has constituted works committees at Divisional Level and Liaison-cum-Grievances Committee at Chief Engineer/ Circle level/ Head Office level where representation has been given to employees to settle all disputes/ grievances of the staff amicably.

2.10 LAND ACQUISITION UNIT:

The Land Acquisition Officer, with head quarter at Mandi, is working in HPSEBL (Board) under the Administrative control of Executive Director (Pers.) and is dealing with all cases, relating to land acquisition and compensation in the HPSEBL(Board), whereas the administrative control of the office of Land Acquisition Officer, Shimla has been transferred to HPPCL. The position of Land Acquisition and Workmen Compensation cases, decided during the period under Report, is as under: -

Sr.No.	Name of the Court	Previous Balance (Nos.)	Received during the year (Nos.)	Total (Nos.)	Disposed during the year(Nos.)	Compensation Awarded (In Rupees)	Pending cases. (Nos.)
(i).	Land Acquisition Cases Mandi	16	15	31	4	26,55,199/-	27
(ii).	Workmen's compensation cases Mandi	82	6	88	-	-	88

Remarks:- All the workmen compensation cases have been transferred to District & Session Judge as per notification of H.P. Govt. vide No.2-9/86-Lab-II dated 22.08.2005 & 04.01.2011 and further notification of even No. 12-14-89-Shram-II dated 14.02.2011.

2.11 PUBLIC RELATION UNIT:

This unit is assigned publicity work relating to the working of the HPSEBL (Board), which is responsible for arranging wide coverage in Press, All India, Radio, TV and other related media regarding various activities of the HPSEBL (Board). The main activities under taken by this unit during the year 2010-11 are as under:-

- (i) Attending to Public grievances and constant interaction with concerned field offices/ units.
- (ii) Information dissemination and information resources management relating to HPSEB Ltd.(Board's) activities through mass media.
- (iii) 207 No. press releases & 109 No. display advertisement to highlight the activities of the HPSEB Ltd.(Board)have been issued.
- (iv) Maintaining regular contract and relations with Press Print media , Electronic media News Agencies and consumers etc.
- (v) Release of 448 No. classified advertisements to various news papers.

- (vi) One Board's level inauguration ceremonies and five foundation ceremonies were organized during the year.
- (vii) Regular and constant liaison with Public representatives, civil administrations, various Govt./ Semi Govt. departments, sister power utilities and other organizations/ agencies connected with the activities of the HPSEBL for the purpose of furtherance and smoothening the general interest of the Board.
- (viii) PR Cell participated with display of attractive Tableau on the occasion of Winter Carnival and Republic day Parade during January 2011.
- (ix) 11 No. Urja Mela exhibitions organized during the year.
- (x) 12 No. jingles were broadcast on All India Radio, Big 95 FM Radio Channel. FM 100.0 Dhamal 24 FM and OYE 104.8 FM.
- (xi) 7 No. video spots have been telecast on Doordarshan Kendra Shimla and LED Screen at Ridge (Shimla).

2.12 PERSONNEL OFFICER UNIT:

This unit is assigned the work relating to daily waged workers, cases of compassionate employment (Under Employment Scheme), as well as departmental inquiry cases.

During the period under report following decisions were taken by the HPSEBL (Board) :-

- (i) 47 No. Daily Wages workers have been regularized.

Court Cases of daily wages workers are also dealt in this unit.

2.13 FINANCE AND ACCOUNTS WING:

The Finance and Accounts Wing is headed by the Chief Accounts Officer. This wing has been assigned the function of maintaining accounts of the HPSEBL (Board), preparation of final/annual accounts and annual budget of the HPSEBL (Board), exercise internal checks over the accounts maintained in the various field offices, exercise financial control, financial planning, financial forecast, funds management, receipt and disbursement etc. The organizational set up of this wing as on 31.3.2010, is given in the Organization Chart. Further details are given in Chapter 8, captioned "Finance, Accounts and Audit".

2.14 TECHNICAL ORGANISATIONS:

The Technical Organizations of HPSEB Ltd.(Board) have been broadly classified as under:

- | | |
|-----------------------|-------------------------------|
| (i) Operation Wing | (v) Commercial Wing.. |
| (ii) Generation Wing. | (vi) Material Management Wing |
| (iii) ESCM Wing. | (vii) System Planning Wing |
| (iv) Project Wing. | (viii) System Operation Wing |

(i) OPERATION WING:

The Operation Wing of HPSEBL is headed by three Chief Engineers viz. Chief Engineer (OP) North, Chief Engineer (OP) South and Chief Engineer (OP) Central Zone. This Wing is mainly responsible for operation and maintenance of entire electricity sub-transmission & distribution system. In an ongoing effort to do a better job of meeting its consumers needs, operation wing provides a broad range of services, not only for major industrial customers but for domestic consumers as well. Besides this, the construction works relating to Rural Electrification, Construction of Sub Transmission System upto 33 KV, System Improvement and execution of deposit works are entrusted to this Wing.

(ii) GENERATION WING:

The Generation Wing of HPSEBL is headed by Chief Engineer (Gen.) and has been entrusted the duties of Planning, Design, Procurement and Execution of all electrical works of new Projects including Renovation & Modernization, Operation and Maintenance of existing power houses under the control of Chief Engineer (Generation).

(iii) TRANSMISSION WING:

This Wing, headed by Chief Engineer (Electrical System), has been assigned the duties of Planning, Design, Procurement, Construction, Operation and Maintenance of EHV/HV lines and Sub-Stations (66 KV and above) in the State.

(iv) PROJECT WING:

Investigation, planning, design and execution of Hydel Projects are entrusted to this Wing. There are three Chief Engineers under this wing as detailed hereunder and the organizational setup of each Chief Engineer as on 31.3.2011, is given in the Organization Chart.

(a) CHIEF ENGINEER (PROJECTS-CUM- ARBITRATION) SHIMLA:

Execution of civil works of Bhaba Augmentation Hydro Electric Project, Ghanvi Stage-II Hydro Electric Project, and the investigation works in Satluj Basin have been entrusted to this Chief Engineer. He is also the cadre controlling authority for Junior Engineers of Civil/Mech. Cadre and the technical staff.

(b) CHIEF ENGINEER (I&P), SUNDERNAGAR:

This unit has been assigned the works of Survey & Investigation, formulation of PFRs & DPRs of Hydroelectric Schemes in Ravi, Beas & Chenab Basins and obtaining the Techno-economic & MOEF clearances from Govt. of India.

(c) MD BEAS VALLEY POWER CORPORATION LIMITED JOGINDERNAGAR:

This unit has been assigned the execution of civil works of Uhl Stage-III HEP(100MW)

(d)CHIEF ENGINEER (DESIGN) HPSEBL {Now General Manager (Designs) HPPCL} SUNDERNAGAR:

Design & preparation of const. drawings & technical specifications of civil/mechanical components of the ongoing projects, like Bhaba Aug., Ganvi Stage-II, and Uhl Stage-III have been entrusted to this Chief Engineer. Central soil and concrete research lab, attached with this wing, carries out all kinds of tests on construction materials and concrete for various projects under construction / investigation. Meteorological data, rainfall, discharge and silt data etc. are also maintained in this wing. In addition to this, Chief Engineer (Designs) gives technical advice to the field units during construction and maintenance problems of commissioned projects in State Sector. The administrative control of Chief Engineer (Design) HPSEBL, Sundernagar has been transferred to HPPCL.

(v) COMMERCIAL WING:

The Commercial Wing is headed by Chief Engineer (Commercial) and is functioning in HPSEBL Ltd. under the overall control of Director (Operation). The Chief Engineer is dealing with updating of Sales Manual, working out and filing of scientific and commercially viable tariff to Regulatory Commission for approval and also dealing with H.P. State Regulatory Commission on different issues relating to tariff reforms from time to time, energy conservation, energy audit, working out of circle-wise and overall transmission and distribution losses, checking of pilferage of energy, maintaining of data related with number of consumers, connected load, HT/LT lines, distribution sub stations, pending applications, dead stop/defective energy meters, power house-wise monthly energy generation, energy purchased and energy sold at HPSEBL level, dealing with power availability cases and processing cases of load sanction to get the approval of the Board, issuing NOC for installation of DG sets as standby/captive source of Power, preparation of data for State Level single window clearance and monitoring authority, STC (Sub-Transmission Committee) meeting, EHV transmission committee meeting, preparation of data of maximum demand regarding various 33KV & EHV substation & for assessment of financial resources for the annual plan of the HPSEBL Ltd. and devising ways and means to ensure accurate metering, billing and collection, to manage billing for energy sale.

(vi) MATERIAL MANAGEMENT WING:

This wing of HPSEBL is headed by Chief Engineer (MM) under the over all control of Director Operation, HPSEBL. This unit is mainly dealing with the bulk procurement of stores like cement, steel, conductor and all kinds of electrical equipments below 33 KV according to the requirement of various field units as well as procurement of stationery and printing works of HPSEBL. The Chief Engineer (MM) is also the Secretary to the Store Purchase Committee of HPSEBL and arranges approvals of all the purchase cases, pertaining to different units of HPSEBL from the Store Purchase Committee. The detailed activities of this unit have been given in Chapter VI, captioned 'Material Management'.

Besides the Chief Engineer (MM), three Design Units i.e. Superintending Engineer, Design (ES), Superintending Engineer Design, Power Houses (Electrical) Superintending Engineer, Design (Electrical) Uhl Stage-III have also been entrusted with the procurement / purchase of classified equipments, for transmission lines & substations of 33 KV & higher voltages and also electro-mechanical equipments for different power houses in addition to other duties of Planning and Designs, the details of which have been given in para 6.6.A, 6.7.A & 6.7 B of Chapter 6, captioned 'Planning and Design'.

In addition to above, field officers of various levels also have powers to purchase miscellaneous items for day to day working requirements as per the Delegation of Financial Powers of HPSEBL.

(vii) SYSTEM PLANNING WING:

System Planning Wing is headed by Chief Engineer (SP) Electrical and is entrusted with the long terms planning of Transmission, Sub-transmission and Distribution system in Himachal Pradesh, preparation of electrical chapters of new & future Hydro Electric Projects, preparation of schemes for rural electrification, system improvement and for

requirement of capacitors in various sub stations. Revision of transmission schemes is also undertaken by this Wing. The Chief Engineer (System Planning) is the Nodal Officer in respect of schemes of electrical works, being funded by M/s PFC Ltd., APDRP & RGGVY schemes of Ministry of Power, Govt. of India and Ministry of Non-Conventional Energy Sources, New Delhi. He is also the signatory of all the loan documents, relating to PFC financed Electrical Schemes, besides forwarding the payments and reimbursement claims, pertaining to these schemes.

(viii) CHIEF ENGINEER (SYSTEM OPERATION), SHIMLA:

This office came into existence w.e.f. 11.10.2005, under the control of Director (Tech.) and since then, it is functioning in Vidyut Bhawan, Shimla-4. Four units, comprising the Superintending Engineer (Interstate), Superintending Engineer (PR&CERC), Superintending Engineer SLDC and Superintending Engineer (IT) have been attached to this office. This Chief Engineer is dealing with interstate billing matters in respect of CPSU, Shared Generation in Power Projects, Power Tariff by CERC, ensure operation and maintainability of Grid Discipline, to monitor and control power flow on real time basis in respect of identified substations/power houses of H.P. system, CERC Regulations on open access under the provisions of Electricity Act, 2003 and other allied matters.

2.15 STRENGTH OF BOARD EMPLOYEES:

The class-wise sanctioned posts in HPSEB as on 31.3.2011, are tabulated below. These posts are for Revenue as well as for Capital Works:

Class	Total
I	1089
II	642
III	15758
IV	8100
Total:	<u>25589</u>

Personal Posts:

a) Regular/Work-charge	2837
b) D/Wages/Part-Time	725

UNITS RE-ORGANIZED/CREATED/DISBANDED:-

- (i) Vide Order No. 60 dated 26.8.2010 created a Electrical Division at Baddi along with a Electrical Sub-Division at Manpura and also transferred the administrative control of Electrical Sub-Division Baddi / Barotiwala and Goela from Electrical Division Parwanoo to newly created Division at Baddi under the administrative control of Operation Circle, HPSEBL, Solan.
- (ii) Vide Order No.67 dated 20.10.2010 created a Electrical Plant & Machinery Division(*Non Accounting*) with its headquarter at Chulla under overall control of Managing Director, Beas Valley Power Corporation Limited, Joginder Nagar
- (iii) Vide Order No.62 Bhaba Store Sub-Division at Parwanoo wind up in view of the non-utility.

POSTS UP-GRADED:

Vide order No.13 dated 9.2.2011, 82Nos. work charge incumbents converted in regular personal post who have completed 3 years services up to 31.3.2010.

**A SENIORITY LISTS PREPARED / CIRCULATED DURING THE YEAR 2010-11:
GAZETTED STAFF:**

- (i) Provisional Seniority list of CE (E) as it stood on 3.02.2011 circulated vide letter No. HPSEBL (SECTT.)/101-19/2011-135453-502 dated 8.2.2011.
- (ii) Provisional Seniority list of CE (C/M) as it stood on 31.1.2011, circulated vide letter No. HPSEBL (SECTT.)/102-68/2011-140831-55 dated 22.2.2011.
- (iii) Provisional Seniority List of SE (E) as it stood on 1.10.2009 circulated letter No. HPSEBL (SECTT.)/101-20/2010-101530-630 dated 10.11.2010.
- (iv) Final Seniority list of SE(C/M) as it stood on 31.12.2009 circulated vide letter No. HPSEBL (SECTT.)/102-69/2009-67521-61 dated 19.8.2010.
- (v) Revised Provisional Seniority list of AEE/AE (E) as it stood on 1.1.2008 circulated vide letter No. HPSEBL (SECTT.)/101-23/2010-3409-3609 dated 23.4.2010.
- (vi) Provisional Seniority list of AEE/AE(C/M) as it stood on 1.1.2008 circulated vide letter No. HPSEBL (SECTT.)/102-72/2008-3610-3810 dated 23.4.2010.

- (vii) Provisional Seniority list of Under Secretaries as it stood on 1.7.2010 circulated vide letter No. HPSEBL (SECTT.)/102-76(C) 2010-60167-210 dated 3.8.2010.
- (viii) Provisional Seniority list of Section Officers as it stood on 1.8.2010 circulated vide letter No. HPSEBL (SECTT.)/102-77/2010-80384-445 dated 21.9.2010.
- (ix) Final Seniority list of Accounts Officer as it stood on 31.12.2009 circulated vide letter No. HPSEBL (SECTT.)/102-75/2009-67899-923 dated 19.8.2010.
- (x) Provisional Seniority list of Sr. Private Secretary as it stood on 1.07.2010 circulated vide letter No. HPSEBL (SECTT.)/102-79(b) 2010-48347-77 dated 9.7.2010.
- (xi) Provisional Seniority list of Private Secretary as it stood on 1.7.2010 circulated vide letter No. HPSEBL (SECTT.)/102-79(a)2010-50697-731 dated 13.7.2010.

NON GAZETTED STAFF

- (i) Final Seniority list of Supdt. (D/A) as it stood on 1.1.2010.
- (ii) Final Seniority list of Stock Verifier as it stood on 1.1.2011.
- (iii) Final Seniority list of Addl. Pvt. Secretary as it stood on 1.1.2010.
- (iv) Final Seniority list of Store Helper as it stood on 1.1.2010 and 1.1.2011.
- (vi) Final Seniority list of Personal Assistant as it stood on 1.1.2010.
- (vii) Final Seniority list of Sr. Scale Stenographer as it stood on 1.1.2010.
- Viii) Final Seniority list of Jr. Scale Stenographer as it stood on 1.1.2010.

B. PROMOTIONS/ CONFIRMATIONS/ APPOINTMENTS/ WORK CHARGED CADRE/ REGULARISATION OF ADHOC SERVICES/ EMPLOYEES, SENT ON DEPUTATION:-

GAZETTED ESTABLISHMENT

During the year 2010-11, 53 Nos. (Class-I&II) D.P.Cs meetings were convened, the detail of which is as under:-

(a) Electrical Engineers:

(i) Chief Engineer	8 Nos.
(ii) Superintending Engineer	21 Nos.
(iii) Sr. Executive Engineer	106 Nos.
(iv) A.E.E/ A.E	116 Nos.

(b) Civil /Mechanical Engineers:

1) Chief Engineer.	5 Nos
2) Superintending Engineer	7 Nos.
3) Sr. Executive Engineer	34 Nos.
4) A.E.E./A.Es	28 Nos.

(c) Other Categories:

(i) Addl. Secretary	2 Nos.
(ii) Dy. Secretary	5 Nos.
(iii) Under Secretary	23 Nos.
(iv) Section Officer	55 Nos.
(v) Dy. Chief Accounts Officer	2 Nos.
(vi) Sr. Accounts Officer	4 Nos.
(vii) Accounts Officer	2 Nos.
(viii) Assistant Accounts Officer	19 Nos.
(ix) Addl. Secretary-cum-P.S.	1 Nos.
(x) Sr. Private Secretary	5 Nos.
(xi) Private Secretary	20 Nos.

C. NON-GAZETTED ESTABLISHMENT:

a). PROMOTION

- (i) 102 Sr. Assistants promoted as Supdt. Gr.II.
- (ii) 190 Clerks promoted as Sr. Assistant.
- (iii) 28 Personal Assistants promoted as Add. Pvt. Secretary.
- (iv) 24 Sr. Scale Stenographers promoted as Personal Assistant.
- (v) 20 Jr. Scale Stenographers promoted as Sr. Scale Stenographer.
- (vi) 3 Store Keepers promoted as Stock Verifier.
- (vii) 14 Assistants Store Keeper promoted as Storekeeper.
- (viii) 56 Peons promoted as Bill Distributor.
- (ix) 24 Peons promoted as Daftry/Havildar.

- (x) 83 No. Class IV (Non-Tech.) Staff promoted as Clerk.
 (xi) 8 Sr. Assistants, 1 Sr. Scale Stenographer, 3 Assistant Store Keeper and 27 Clerks appointed as Supdt (D.A).

b) REGULARIZATION :

6 Nos. work charge conductors/ cleaners have been regularized as drivers

c) POSTS FILLED UP ON CONTRACT BASIS

10 posts each of Electrician and Electrician (PH) Elect. Filled through SSSB (H.P) on contract basis

d) APPOINTMENTS GIVEN UNDER EMPLOYMENT ASSISTANT SCHEME:

The following employment under EAS on daily wages has been provided to the dependents of the deceased of the HPSEBL employees:

(i)	Helper (Sub-station)	= 21 Nos.
(ii)	Helper ((Power House Elect.))	= 2 Nos.
(iii)	Clerk	= 20 Nos.
(iv)	Peon	= 13 Nos.
(v)	Sweeper	= 1 No.
(vi)	Chowkidar	= 3 Nos.
	Total:-	= 60 Nos.

v) CONFIRMATIONS:

532 Clerks and 1 Assistant Store Keeper confirmed.

vi) EMPLOYEES SENT ON DEPUTATION/ SECONDMENT:

Class-III =10 Nos. [8 Nos. J.E (C/M), 1 HDM and 1 D/Man]

2.16 GENERAL ACTIVITIES:

The General Activities of the HPSEBL during the year 2010-11 are given in the following paragraphs.

A TRAINING SCHEMES:

In the present day competitive World when numerous technological and other changes are taking place in every sphere of activity, it has become increasingly challenging to the Power Utilities to vie with other Stakeholders that are now coming into play in the Power Sector and provide quality Power Supply to Electricity Consumers with utmost efficiency and promptness.

Keeping the aforesaid in view, the HPSEBL has been endeavoring its best to keep its personnel abreast of the latest changes and is sponsor them i.e. Engineering & other Officers and Field Technical and other staff to undergo training and participate in Conferences/ Workshops and Symposia that are organized by various reputed Institutes/ Organizations in the country.

Also the field Technical Staff of the HPSEBL is imparted training at the Board's Lineman Training Centre at Solan.

During the year 2010-11, the figures tabulated here below show at a glance the number of personnel sponsored by the HPSEBL to undergo trainings and participate in various Conferences / Workshops and Seminars:

(i)	Engineering Officers / Staff	= 416
(ii)	Other Officers / Staff	= 24
(iii)	Field Technical Staff	= 515
	(Including C& D employees	TOTAL: = 955

B HPSEBL REST HOUSES/ GUEST HOUSES:

For convenience of the officers/ officials, HPSEBL has been maintaining Rest/ Guest Houses at Shimla/ Delhi and other places in H.P. The detail of suites, available in Delhi and Shimla, is given below:-

Sr. No.	Description of Rest House	No. of suites.	Booking Agency.
(i)	HPSEBL Rest House, Vidyut Bhawan, Shimla-4.	7	Executive Director (Pers)/Under Secretary (Genl.), HPSEBL, Shimla.
(ii)	HPSEBL Rest House, C-291, Asiad Village (Khelgaon), New Delhi.	3	Executive Director (Pers)/ Under Secretary (Genl.), HPSEBL. Shimla.
(iii).	HPSEBL Rest House, A-32, Asiad Village (Khelgaon), New Delhi.	3	Secretary/ Under Secretary (Genl.), HPSEBL. Shimla.-do-

DEVELOPMENT SCHEMES

3.1 GENERAL:

Himachal Pradesh has an identified power potential of approximately 23000 MW in its five river basins. This huge hydel potential of the State can play a major role in the power development programme of the Northern region & provide an economic base for the speedy development of Himachal Pradesh. Out of this total potential, 6672 MW has only been harnessed upto 31.03.2011, out of which 466.95 MW installed capacity is under the control of HPSEBL, the rest being under the control of Central/Joint Sector, Private Sector and Him-Urja, the detail of which has been given in Table-14 of Chapter-X, Captioned "Tables".

The following Power Projects were under progress during the year:

3.2 UHL STAGE-III HYDRO ELECTRIC PROJECT (100MW):

Uhl Hydroelectric project Stage-III, a downstream development of first two stages of Uhl Project, viz. Shanan (110 MW) and Bassi (60 MW) and two rivulets-Neri and Rana Khad in Distt. Mandi of Himachal Pradesh.

This project is being executed by the Beas Valley Power Corp. Ltd., a company promoted by the erstwhile HPSEBL. The project comprises of diversion works for tail waters of Uhl Stage-II, Neri Khad & Rana Khad Power Channels, aqueducts, and storage reservoir, 8477m. long Head Race Tunnel, Surge shaft, Penstock and Surface power house, housing three units to generate 100 MW of power utilizing gross head of 292.65 Mtrs. and design discharge of 41.30 cumecs.

Revised estimated cost of the project is ` 940.80 crores with price level, March, 2008. This project on completion will generate 391.19 MU of energy in 90% dependable year. The cost of generation at Bus Bar works out to be ` 3.97 per unit.

Power Finance Corporation Ltd. New Delhi has sanctioned an additional amount of ` 322.40 Cr. for this project thereby enhancing the total loan amount to ` 653.40 Cr. from ` 331.00 Cr. sanctioned earlier. An expenditure amounting to ` 624.65 crore has been incurred on Civil, Generation and Transmission works of this project upto 31st March, 2011.

Civil and Hydro Mechanical Works:

The civil work of all the main components have been awarded and the work on all these components is in full swing and more than 70% of physical progress has been achieved.

Electro-Mechanical Works:

The Project is having 3 generating units of 33.33 MW each. The work of Electro-Mechanical Equipments has been awarded to M/s BHEL New Delhi and the erection work is in progress.

Transmission Works:

132 kV Double Circuit transmission line from Uhl-III to Hamirpur and 132 kV Single Circuit transmission line on Double Circuit Tower from Uhl to Bassi is being carried out by Chief Engineer (ES.) HPSEBL, Hamirpur and about 65% work has so far been completed.

Project is likely to be commissioned during October, 2012.

3.3 BHABAUGMENTATION POWER HOUSE (4.50 MW):

The scheme with enhanced capacity from 3.00 MW to 4.5 MW and revised cost estimate of the project for ` 72.08 crore at December, 2009 price level is being executed by HPSEBL in District Kinnaur (HP).

This project envisage trench weir across Shango Khad a tributary of Bhaba Khad about 3.00 Km upstream of confluence of Shango Khad with Bhaba Khad near village Surchoo, desilting tank 30x10x3 m size, 2.1m D-shaped 4682 m long Head Race Tunnel, under ground Forebay 26x6x6.2 m size, Penstock 800 mm internal dia 450 m long, Tail Race Tunnel 2.1x2.1 m size 90 m long and Surface Power House with installed capacity 4.50 MW near intake of Bhaba Hydro Electric Project having 2 No. pelton wheel horizontal axis turbines with 2.25 MW capacity each. This project on completion is expected to generate 26.63 MU of energy in 75% dependable year. The cost of generation at Bus Bar works out to be ` 4.47 per unit. The funds required for completing the balance works are being arranged from the PFC and MNES. Loan agreement paper for an amount of ` 11 crore for execution of Civil and E&M works of the scheme have already been signed with PFC. An expenditure amounting to ` 6095.39 lacs has been incurred upto March, 2011.

Civil and Hydro Mechanical Works:

The civil work of all the main components have already been completed.

Electro-Mechanical Works:

Two packages for supply of Electro Mechanical equipments and services of Electro Mechanical equipments have been awarded to M/s VA TECH ESCHER WYSS, FLOVEL LTD. FARIDABAD amounting to ` 9,01,22,290/- and ` 85,92,600/- respectively. The supplies of major equipments have been received at site and the erection work of equipment is in progress. The project is scheduled to be commissioned during July, 2011.

3.4 GHANVI STAGE-II HEP (10 MW):

Ghanvi Stage-II HEP is a run of the river scheme on Ghanvi rivulet, a tributary of Satluj river. The project is located near Jeori township, about 150 Km from Shimla. The power house site is near Ghanvi which is about 12 Km from Jeori. This scheme envisages construction of drop type trench weir to divert the Ghanvi waters. This diverted water will be conveyed through 1.8m size D-shaped 1440m long tunnel and one penstock, bifurcating near power house to feed two turbines in an underground power house to generate 10 MW of power by utilizing a gross head of 165m and designed discharge of 7 cumecs. The annual energy generation in a 75% dependable year is expected to be 56.30 MU. The cost of generation at Bus Bar works out to ` 2.92 per unit.

The Himachal Pradesh State Electricity Board limited, is executing this Hydro Electric project. Environment & Forest clearance stand accorded by HPSEB & PCB, Shimla and by MOEF, Govt. of India respectively.

Estimated cost of the project is Rs.99.80 crore at December, 2009 price level. The funds have been arranged from M/s Rural Electrification Corporation Ltd., who has sanctioned a revised loan amounting to ` 8982.00 lacs on dated 22.07.2010. An expenditure amounting to ` 5772.02 lacs has been incurred upto March, 2011.

Civil and Hydro Mechanical Works:

The civil work of all the main components have been awarded, the work on all these components is in full swing and more than 85% of physical progress has been achieved.

Electro-Mechanical Works:

The Electro Mechanical packages have been awarded during April, 2008 at tendered amount of ` 18.86 crores to M/s VA TECH ESCHER WYSS, FLOVEL LTD. FARIDABAD. A sum of ` 1,88,62,575/- has already been paid to the firm as advance payment. Material/equipments have also reached at site.

3.5 TRANSMISSION LINES & SUB-STATIONS:

The progress of the various transmission lines & sub-stations during the year 2010-11, is given here under:-

A LINES COMPLETED/COMMISSIONED:-

The following transmission line works were completed during the year:-

i)	220kV D/Ckt. Line PGCIL to Nalagarh	3.569 Kms.
ii)	220 kV D/ Ckt. line Kangoo to Rauri.	14.750 Kms.
iii)	132 kV S/ Ckt. line Chullah to Bassi	2.500 Kms.
iv)	132 kV D/ Ckt. line Chullah to Hamirpur	1.848 Kms.
v)	132 kV D/ Ckt. line to Gaura	0.600 Kms.
vi)	66 kV S/ Ckt. line Nalagarh to Navgoan(ACL)	9.900 Kms.
vii)	22 kV S/ Ckt. line on 66KV Towers Akpa to Pooh	19.560 Kms.
viii)	66 kV S/ Ckt. line Akanwali to Davni	0.300 Kms.
ix)	66 kV D/ Ckt. line Uperla Nangal to Nalagarh.	3.510 Kms.

B SUB-STATION COMPLETED/COMMISSIONED:-

i)	Addition of 132/33 kV, 16 MVA Transformer at Kandrori	16.00 MVA.
ii)	Aug. of 132/33kV, 16 MVA to 25/31.5 MVA T/F at Gagret	15.50 MVA.
iii)	Addition of 220/33 kV, 25/31.5 MVA Transformer at Jassure	31.50 MVA.
iv)	Aug. of 16 MVA Transformer to 25/31.5 MVA at Una	5.50 MVA.
v)	220/66 kV ,2x80/100 MVA S/Stn. at Uperla Nangal	200.00 MVA.
vi)	Replacement of 220/66 kV,20 MVA to 40 MVA ,Transformer at Pong Sub-Station of BBMB.	20.00 MVA.
vii)	Aug. of 132/33 kV,16 MVA to 25/31.5 MVA at Paonta S/Stn.	15.50 MVA.

Total314.00 MVA.

OPERATION AND MAINTENANCE

4.1 GENERAL:

During the year under report, no power house has been commissioned, as such the total installed capacity of HPSEBL remained at 467.083 MW. The total installed capacity consists of 20 hydroelectric generating stations and one diesel generating station at Keylong.

The total generation from these power stations during the year under report, was 2045.26 M kWh as compared to 1804.14 M kWh during 2009-10.

4.2 POWER HOUSES IN OPERATION:

All the Power Houses except diesel generating station at Keylong, remained in operation during the year under report.

A) MEDIUM/SMALL HYDEL GENERATING STATIONS:

(i) Larji (3x42=126MW):

The Power House with 3 units of 42 MW each is located at Larji in district Kullu. During the year under report, this Power House generated 666.394 MU of energy with a plant load factor of 60.37% and maximum demand was recorded as 138 MW.

The power from this Power House is being evacuated through the following transmission lines and substations: -

132 kV Larji- Kangoo Feeder No.1 & 2.

132 kV Larji- Bijni Feeder.

132 kV Larji- Bajaura Feeder.

(ii) BHABA (3x40=120 MW):

This Power House with 3 units of 40 MW each is located at Bhabanagar in District Kinnaur. During the year under report, this power house generated 646.306 MU of energy with a plant load factor of 61.48 % and maximum demand was recorded as 120 MW.

The power from this Power House is being evacuated through the 220 KV, D/C, Bhaba-Kotla-Kunihar transmission line.

(iii) BASSI (4x15=60 MW):

This Power House with 4 units of 15MW each, is located in District Mandi. During the year under report, due to renovation & modernization works being in progress, this Power House could generate 191.886 MU of energy with a plant load factor of 36.50% and maximum demand on the power house was recorded as 48 MW.

The power from this Power House is being evacuated through the following transmission lines and substations:-

132 kV, S/C Bassi-Hamirpur line.

132 kV, D/C Bassi-Shanan line.

132 kV, S/C Bassi-Dehan/Palampur line.

132 kV /33KV , 9 MVA Sub-station at Bassi.

(iv) GIRI (2x30=60 MW):

This Power House with two units of 30 MW each, is located in District Sirmour. During the year under report, this Power House generated 233.503 MU of energy with a plant load factor of 44.42%. The maximum demand on this power- house was recorded as 60 MW. The power from this Power House is being evacuated through following transmission lines and substation:-

132 kV S/C Giri-Kulhal line.

132 kV S/C Giri-Abdullapur line.

132 kV Giri-Solan line (Two Separate circuits).

132 kV, S/C Giri-Paonta-Gondpur line.

132 kV, S/C Giri- Kala Amb line.

220/132 kV, 2x63MVA and 132/33 kV, 1x 31.5 MVA Sub-station at Girinagar.

(v) GHANVI (2x11.25= 22.5 MW):

This Power House with 2 units of 11.25 MW each is located on Ghanvi khad, a tributary of the Satluj river, near Jeori town of Shimla district. During the year under report, this Power House generated 60.338 MU of power with a plant load factor of 30.61% and the maximum demand was recorded as 22.80 MW.

The power from this Power House is being evacuated through 66 kV Double Circuit transmission line and is synchronized with main grid at 220/66/22 kV Sub station at Jeori and is consumed in Shimla and Kinnaur Districts.

(vi) ANDHRA (3x5.65=16.95 MW):

This Power House with 3 units of 5.65 MW each, is located on Andhra Khad, a tributary of river Pabbar of the Yamuna river basin in Shimla District. During the year under report, this Power House generated 55.745 MU of energy with a plant load factor of 37.54% and maximum demand was recorded as 16.95 MW.

The power from this Power House is being evacuated through 66 kV Andhra Nogli line and some power is also consumed locally.

(vii) BANER (3x4=12 MW):

This Power House with three units of 4.00 MW each is located on Baner khad, a tributary of river Beas in District Kangra. During the period under report this Power House generated 41.780 MU of energy with a plant load factor of 39.74% and maximum demand recorded was 12.00 MW. This Power House is connected to main grid and the power is being evacuated through 33 kV Baner-Maranda and Baner-Sidhpur-Kangra transmission lines.

(viii) KHAULI (2x6 =12 MW):

This Power House, with 2 units of 6.00 MW each is located on Khauli Khud near village Bhatti in Kangra District. During the year under report, this Power House generated 41.743 MU of energy with a plant load factor of 39.71% and maximum demand was recorded as 12 MW.

The power from this Power House is being evacuated through the 33KV Khauli-Shahpur double circuit line.

(ix) GAJ (3x3.5=10.5MW):

This Power House with three units of 3.5 MW each is located in District Kangra. During the year under report this Power House generated 35.645 MU of energy with a plant load factor of 38.75% and maximum demand was recorded as 10.5 MW.

The Power House is connected to main grid and the power is being evacuated through 33 kV Gaj-Shahpur and Gaj-Kangra feeders.

(x) BINWA (2x3=6 MW):

This Power House with 2 units of 3.0 MW each, is located near Baijnath in Tehsil Palampur of Distt. Kangra. During the year under report this Power House generated 30.021 MU of energy with a plant load factor of 57.11% and maximum demand was recorded as 6.0 MW.

The power from this Power House is being evacuated through 33 kV Double Circuit Binwa-Baijnath line and the unit is synchronized with the main grid of Bassi through Baijnath-Bassi 33 kV line.

(xi) THIROT (3x1.5=4.5 MW):

This Power House is located in remote tribal valley of Lahaul in Lahaul and Spiti District on Thiroth Nallah, a tributary of river Chenab. During the year under report this Power House generated 9.149 MU of energy with a plant load factor of 23.20% and maximum demand was recorded as 1.50 MW.

The power from this Power House is utilized in remote tribal area of Lahaul and Pangti and surplus power available is utilized in Manali area of Kullu District.

(xii) GUMMA (2x1.5=3 MW):

This Power House with 2 units of 1.5 MW each located in Tehsil Chirgaon, District Shimla, envisages utilisation of water of Gumma khad, a tributary of river Pabbar. During the year under report, this Power House was under complete shutdown due to leakage in power channel and no energy was generated. The repair work of power channel and machine No.II remained in progress.

The power from this Power House is being evacuated through 22 kV Double Circuit line to Chirgaon sub station, which is further, consumed in District Shimla.

(xiii) HOLI (2x1.5=3 MW):

This Power House with 2 units of 1.5 MW each is located in District Chamba, envisages utilization of Holi Nallah, a tributary of river Ravi. During the year under report, this Power House generated 9.279 MU of energy and maximum demand was recorded as 2.70 MW.

The power from this Power House is utilized in Chamba District.

B) MINI/MICRO HYDEL GENERATION STATIONS: -

(xiv) NOGLI (4 x500 +2 x 250=2500 KW):

This Power House is located on Nogli Khad, a tributary of the Satluj river in Shimla District. During the year under report, this Power House generated 7.728 MU of energy and maximum demand was recorded as 1940 KW.

(xv) RONGTONG (4x500= 2000 KW):

This Power House is located on Rongtong Nallah, a tributary of the Spiti river. During the year under report this Power House generated 1.270 MU of energy during the year and maximum demand was recorded as 760 KW. The power from this Power House is utilized in Spiti Valley.

(xvi) SAL-II (2x1000=2000 KW):

This Power House is located in District Chamba on Sal Nallah, a tributary of river Ravi. During the year under report this Power House generated 3.778 MU of energy and maximum demand recorded was 1150 KW. The power from this Power House is utilized in Chamba District.

(xvii) CHABA (2x 500 +3 x 250=1750 KW):

This Power House is located in Suni Tehsil of Shimla District. During the year under report this Power House generated 9.620MU of energy and the maximum demand recorded was 1750 KW . This Power House is synchronized with the grid at Idgah sub-station. The power from this power station is being utilized in part of Shimla town and surrounding areas.

(xviii) RUKTI (4x375=1500 KW):

During the year under report, this Power House generated 0.531 MU of energy and peak load recorded was 250 KW. This Power House is running in parallel with grid and power from this power station is being utilized in Kinnaur District.

(xix) CHAMBA (1x250+2x100=450 KW):

This Power House generated 0.108 MU of energy. During the year under report and peak load recorded on the station was 100 KW. This Power House runs in isolation and power generated is utilized in part of Chamba town.

(xx) KILLAR (3x 100 = 300 KW):

During the year under report, this Power House generated 0.435 MU of energy and maximum demand recorded on this power station was 200 KW. Power generated from this power station is utilized in Pangri Valley.

C DIESEL GENERATING STATIONS:

(i) KEYLONG (133 KW):

This Power Sub-Station was not operated during the year under report.

4.3 STATION-WISE DETAILS OF POWER HOUSES:

Power House-wise details of installed capacity, energy generated and maximum demand recorded, have been given in Table-3 and 4 respectively of Chapter-11 `Tables`.

4.4 SECURITY ARRANGEMENT IN VARIOUS POWR HOUSES:

The security of major Power Houses under HPSEBL is being covered by deploying Home Guards/Retired Security Personnel, taken through Ex-servicemen Association. The Board's own staff is also deployed to cover the strategic locations. Further steps to strengthen the security arrangements are also being taken up.

4.5 POWER SUPPLY AND SYSTEM PERFORMANCE:

Besides own generation and power, received from PSEB on Banking basis, HPSEB purchased/obtained energy against HP's share from BBMB, PSEB, SJVNL, UJVNL, UPPCL, NHPC, NTPC and NPCL. HPSEBL also

managed to get assistance from central pool viz. Central Sector, Super Thermal Power Station at Singrauli and other Thermal/Gas/Nuclear Power Stations in the region to meet the deficit of winter season.

4.6 Export of Energy:

During the year under report, HPSEBL exported 1704.00 MU of energy to other states including Banking, UI and Sale through export.

4.7 Import of Energy (Tentative):

During the year under report, HPSEBL purchased 7381.42 MU of energy from various sources. The details of import have been indicated in Table-5 of Chapter-11 "Tables".

4.8 SYSTEM PEAK;

1278 MW in January 2011 as against 1151 MW in 2009-10.

4.9 POWER CUTS:

There has been marked improvement in the power supply positions during the year 2010-11 in comparison to 2009-10. Banking arrangement with DTL and PSEB improved the situation further. However, during winter months, there has been sharp decline in power availability from Hydro-electric Power Stations, operating under HPSEBL, Joint Sector and Central Sector due to less water discharge availability as well as from thermal/nuclear power stations under Central Sector due to unforeseen outages. However no power cut imposed during the year 2010-11 in the State.

4.10 SHUT DOWNS:

To carry out the periodical maintenance and repair works in various power houses, the duration of major shut downs/breakdowns including forced shut downs due to different kind of faults in various equipments/components and floods etc. during the year 2010-11 are as under:

Sr.No.	Name of Power House	Machine No.	Duration of Shut- down/ Break down (24 Hrs & above)
(i)	Bhaba Power House	Machine No.I	2037.37 Hrs.
		Machine No.II	935.15 Hrs.
		Machine No.III	133.35 Hrs.
(ii)	Ghanvi Power House	Machine No.I	734.25 Hrs.
		Machine No.II	919.35 Hrs.
(iii)	Larji Power House	Machine No.I	547.50 Hrs
		Machine No.II	1654.10 Hrs
		Machine No.III	744.00 Hrs.
(iv)	Bassi Power House	Machine No.I	3446.00 Hrs
		Machine No.II	2112.00 Hrs
		Machine No.III	7374.00 Hrs
		Machine No.IV	3625.50 Hrs
(v)	Binwa Power House	Machine No.I	103.20 Hrs
		Machine No.II	24.00 Hrs
(vi)	Baner Power House	Machine No.I	NIL
		Machine No.II	NIL
		Machine No.III	NIL
(vii)	Gaj Power House	Machine No.I	4137.50 Hrs
		Machine No.II	48.00 Hrs
		Machine No.III	NIL
(viii)	Khauli Power House	Machine No.I	135.15 Hrs
		Machine No.II	48.00 Hrs.
(ix)	Giri Power House	Machine No.I	1119.00 Hrs
		Machine No.II	1392.25 Hrs.
(x)	Andhra Power House	Machine No.I	665.50 Hrs
		Machine No.II	1640.20 Hrs

		Machine No.III	412.40 Hrs.
(xi)	Gumma Power House	Machine No.I	8760.00 Hrs
		Machine No.II	8760.00 Hrs
(xii)	Nogli Power House	Machine No.I	1938.35 Hrs
		Machine No.II	1221.51 Hrs
		Machine No.III	120.31 Hrs
		Machine No.IV	131.05 Hrs
		Machine No.V	744.00 Hrs
		Machine No.VI	1064.35 Hrs
(xiii)	Chaba Power House	Machine No.I	29.15 Hrs
		Machine No.II	29.10 Hrs
		Machine No.III	2876.05 Hrs
		Machine No.IV	29.20 Hrs
		Machine No.V	52.00 Hrs
(xiii)	Holi Power House	Machine No.I	72.00 Hrs
		Machine No.II	NIL

4.11 PER CAPITA CONSUMPTION:

During the year 2010-11 per capita consumption of electricity in HP was 969 units (KWh) as against 864 units (KWh) during 2009-10.

4.12 PENDING APPLICATIONS:

Category wise details of pending applications as on 31.3.2011, are as under:

Sr.No.	Category	Nos.
(i)	Domestic	11589
(ii)	Non-residential (Commercial)	1593
(iii)	Industrial (a) Small & Medium	368
	(b) Large	200
(iv)	Bulk/Miscellaneous	9
(v)	Agricultural	432
(vi)	Public Lighting	9
(vii)	Government Irrigation and Water Supply Schemes (Above 20KW)	120
(viii)	Temporary	216
(ix)	Non-Domestic Non-commercial	261
	Total	14797

4.13 THEFT OF ENERGY:

To arrest the tendencies of the electricity consumers to abstract/pilfer electricity energy by indulging in fraudulent activities, Superintending Engineer (Enforcement & Energy Audit) with three Flying Squad units each headed by Sr. Executive Engineer is working under Chief Engineer (Commercial). These Flying Squad units are making frequent visit to field for surprise inspection of the consumer's premises. Further to identify the leakage of electrical energy in the various segments of Power System, Board has created Energy Audit cell under the Enforcement Wing.

During the year 2010-11, surprise inspections were conducted by the flying Squad Units and 1909 cases of pilferage, theft & misuse of electrical energy were detected as detailed below:-

(i)	Total number of connections checked	3645
(ii)	Number of suspected cases (pilferage/ theft/ misuse).	1909
a.	Excess Load	240
b.	Tampering of meter	1174
c.	Direct Connection/theft cases	23
d.	Under billing	225
e.	Other reasons for suspected cases	247
(iii)	Amount Assessed	₹ 527.06 Lacs

In addition to above, the surprise inspections are being made by the field units of the Operation Circles.

4.14

M&T LABORATORIES:

The progress of M&T Laboratories during the year 2010-11, is as under:-

A REPAIR OF TRANSFORMERS:

(i) Distribution Transformers	846 Nos.
(ii) Power Transformers	10 Nos.

B TESTING/REPAIR OF METERS:

(i) T&P Meter repaired :	
a] Single phase	31923 Nos.
b] Three phase	NIL

C PERIODICAL TESTING OF EXISTING SUB-STATIONS / POWER HOUSES:

(a) SUBSTATIONS:

(i) Upto 33 kV	:	143 Nos.
(ii) 66 kV and above	:	66 Nos.

(b) POWER HOUSES	:	23 Nos.
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D IMPORT/EXPORT METER POINT TESTED:	NIL
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E. TESTING OF HT CONSUMERS	1239 Nos.
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RURAL ELECTRIFICATION

5.1 GENERAL:

The basic mission of rural electrification is to facilitate access of electricity for accelerated growth and for enrichment of quality of life of rural and semi urban population. Besides providing rural house holds electrification and other related works in rural area, the main focus is also given on pump set energisation. In a hilly state like HP where 93 % population resides in villages, rural electrification plays a vital role in up liftment of rural population. Apart from natural sun light, it provides the most convenient mode of lighting the houses, the purpose of rural electrification is to supply power to agricultural sector, lift irrigation schemes, small scale industries for increasing agricultural and industrial production and creating more employment potential in rural areas. Another important aim achieved through electrification is to reduce requirement of fuel wood from forests, by providing electric energy as an alternative fuel for domestic consumption.

The investment on rural electrification is comparatively higher while the return from investment is lower with the result, the HPSEBL incurs losses both firstly in extending and then maintaining the rural electrification network in such a difficult and in-accessible terrain where roads are still to be provided. Despite all these factors, HPSEBL has taken this challenge for extending electrification even to the remotest village in the state.

5.2. RAJIV GANDHI GRAMEEN VIDYUTIKARAN YOJNA (RGGVY) CELL:

The Directorate of P&D (REC) had been renamed as Directorate of RGGVY Cell vide Secretary, HPSEB, Shimla letter No. HPSEB (Sectt)/HRD/2-5/2005-64567-767 dated 5.9.05 and it's head-quarter shifted from Dalhousie to Shimla. RGGVY cell is headed by the Superintending Engineer (Electrical) under the administrative control of Chief Engineer (System Planning). This unit has two units viz projects monitoring and system cells. In addition to earlier duties, these cells are entrusted with the preparation of Rajiv Gandhi Grameen Vidyutikaran Yojna schemes, RE schemes, System Improvement schemes, T&D schemes upto 33 KV, Appraisal, Monitoring of progress, loan drawl and closing of such schemes.

In addition, annual working programme and STC agenda alongwith minutes of meeting & REC&SI cost datas are also prepared in this office.

5.3 ELECTRIFICATION OF VILLAGES AND HAMLETS:-

Cent Percent Target of villages electrification as per the 1981 Census has been achieved in Himachal Pradesh. Ending June, 1988,

As per 2001 census, definition of village electrification has been changed. As per new definition, "A village would be declared as electrified if:-

- (i) Basic infrastructure such as Distribution Transformer and Distribution lines are provided in the inhabited locality as well as the Dalit Basti/hamlet where it exists (for electrification through Non-conventional Energy Sources, a Distribution Transformer may not be necessary).
- (ii) Electricity is provided to public places like schools, Panchayat offices, Health Centres, Dispensaries, Community centres etc.
- (iii) The number of house holds, electrified, are at least 10% of the total number of households in the village".

The above definition came into effect from the year 2004-05. 100% village electrification as per 1981 Census was achieved in Himachal Pradesh during 1988-89 (June 1988). Now definition of village electrification has been changed by M/s Rural Electrification Corporation (REC) Ltd. As per 2001 census, 17415 no. of villages have been electrified out of total 17495 villages ending March 2011. Out of remaining 80 un-electrified villages, 11 villages are not technically feasible for electrification being transit, having no population and situated in Densely Populated Forest (DPF) areas. Apart from the village electrification, Board has taken up the electrification of hamlets to be electrified and 4036 (identified) +587 (un-identified) hamlets stand electrified up to March, 2011.

5.4 ELECTRIFICATION OF VILLAGES AS PER NEW DEFINITION:-

Rajiv Gandhi Grameen Vidyutikaran Yojna (RGGVY) has been launched to provide access to electricity to all rural households in five years for the attainment of the goals of the National Common Minimum Programme (NCMP). Under RGGVY scheme which is under Bharat Nirman Yojana of Govt. of India, 90% capital subsidy would be provided by the Central Govt. for overall cost of the project.

The scheme would create the necessary infrastructure through:-

REDB (Rural Electricity Distribution Backbone), provision of at least one 33/11kV (of 66/11kV) Sub-Station of adequate capacity in each block VEI (Village Electrification Infrastructure). Electrification of every village with a distribution transformers in each habitation. DDG (Decentralized Distributed Generation & Supply) system in villages, where grid connectivity is not feasible or cost effective.

Below Poverty Line (BPL) household to get electricity connection free of charge. Revenue sustainability of electricity supply to be ensured through franchisees, who could be NGOs, users, associations, co-operatives or individual entrepreneurs with association of Panchayati Raj Institution. No discrimination in hours of supply between rural and urban households. Services of Central Public Sector Undertakings (CPSUs), made available to states, willing to utilize their services for implementation of the programme.

In Himachal Pradesh, under this Yojna, schemes for all the twelve Districts have been sanctioned by Ministry of Power, Govt. of India, amounting to ` 34,186.33 lac and ` 26,985.06 lac have been released upto March 2011. The work for all schemes awarded on turn key basis are in progress. The expenditure of ` 21,167.91 lacs has been incurred ending March 2011. The status of which is annexed as per Annexure-A.

5.5 RGGVY (BPL) Target / Achievements:-

RGGVY schemes would also cover electricity access to 44496 house holds including 12483 BPL households to be provided connections free of cost for access to electricity under RGGVY projects in 12 Districts out of which 4177 BPL households have been provided electricity ending March, 2011.

5.6 Restructured Accelerated Power Development Program (R-APDRP Part-B)

Government of India (GOI) initiated distribution reforms during the 11th Five Year Plan for which, GOI has reintroduced R-APDRP (Restructured APDRP) with revised terms and conditions. The R-APDRP primarily aims at reducing Aggregate Technical and Commercial (AT&C) losses in urban areas. It is a necessary condition of the scheme that the utilities would need to demonstrate performance improvement for availing financial benefits provided under the scheme. This would require collection of accurate data and measurement of loss reduction performance. Data integrity and performance measurement pose many challenges for the State Power Utilities.

MOP, GOI has appointed M/s Power Finance Corporation as the Nodal Agency for implementing this program. The R-APDRP program covers urban areas – towns and cities with population of more than 10,000 in case of special category states like Himachal Pradesh. In Himachal Pradesh as per 2001 census, 14 towns namely Shimla, Solan, Baddi, Nahan, Paonta Sahib, Kullu, Bilaspur, Hamirpur, Mandi, Sundernagar, Dharamshala, Yol, Chamba and Una are covered under R-APDRP.

Projects under the R-APDRP program shall be taken up in two parts.:

DPR for Part-A of the Restructured-APDRP Scheme relating to base line data for Consumer Indexing, GIS Mapping, Metering of DTR's & Feeders, and Automatic Data Logging for all Distribution Transformers & Feeders. It would also include adoption of IT applications for Meter Reading, Billing and Collection, Energy Accounting / Auditing, MIS, redressal of consumer service centers and IT base consumer centers etc.

DPR for Part-B of the Restructured-APDRP Schemes relating to renovation, modernization & strengthening of 11kV level S/Stns, Transformers/ Transformer centers, Re-conductoring of lines at 11kV and below, load bifurcation, feeder separation, Load Balancing, HVDS (11kV), Ariel Bunched Conductoring in the dense areas, replacement of electromagnetic energy meters with tamperproof electronic meters, installation of capacitor banks and mobile service centers etc. In exceptional cases, where sub-transmission system is weak strengthening at 33 kV or 66 kV system has also been considered.

The R-APDRP (Part-B) schemes for four towns namely Shimla, Solan, Nahan and Poanta Sahib have been sanctioned for ` 165.53 Crores (**Table-1**) by M/s PFC / MoP on dated 20.08.2010 and ` 49.66 Crores has been released on dated 28.09.2010. The Memorandum of Agreement for these towns for ` 148.98 Crores has been signed between HPSEB Ltd. and M/s PFC Ltd. on dated 25.09.2010.

Sr. No	Name of Town/ Project Area	Loan Number	PFC Funded (90%)	Own Funded (10%)	Total Project Cost	Loan Released (30%)
1	Nahan	4134008	5.46	0.607	6.07	1.82
2	Paonta Sahib	4134009	32.97	3.663	36.63	10.99
3	Shimla	4134010	90.23	10.025	100.25	30.08
4	Solan	4134011	20.32	2.258	22.58	6.77
Sub-Total (1)			148.98	16.55	165.53	49.66

The schemes for the remaining 10 towns namely Baddi, Kullu, Bilaspur, Hamirpur, Mandi, Sundernagar, Dharamshala, Yol, Chamba and Una have been sanctioned for ` 156.65 Crores (Table-2) by M/s PFC Ltd. vide letter dated 22.12.2010 and ` 46.99 Crores has been released on 18.02.2011. The Memorandum of Agreement for the loan in respect of 10 towns for ` 140.99 Crores has been signed between HPSEB Ltd. and M/s PFC Ltd. on dated 15.02.2011.

Sr. No.	Name of the town / Project Area	Loan Number	PFC Funded (90%)	Own Funded (10%)	Total Project Cost	Loan Released (30%)
1	Baddi	4134001	78.66	8.74	87.40	26.22
2	Bilaspur	4134002	1.87	0.21	2.08	0.624
3	Chamba	4134003	2.64	0.29	2.93	0.879
4	Dharamshala	4134004	9.28	1.03	10.31	3.093
5	Hamirpur	4134005	5.81	0.65	6.46	1.938
6	Kullu	4134006	6.66	0.74	7.40	2.22
7	Mandi	4134007	17.32	1.92	19.24	5.772
8	Sundernagar	4134012	5.9	0.65	6.55	1.965
9	Una	4134013	6.58	0.73	7.31	2.193

Benefits of the Scheme:-

-Reduction in T&D losses with the renovation, modernization and strengthening of 11kV S/Stn., reconductoring of HT/LT lines and replacement of electromagnetic meters with temper proof electronic meters.

Improvement of reliability of the system.

The AT&C losses shall be brought to below 15% and incentive for reduction of AT&C losses to 15 % by conversion of 90% loan into grant.

5.7. ELECTRIFICATION OF HARIZAN HOUSES:

During the year 2010-11, 701 No of Harijan Houses have been electrified, thus bringing the total of Harijan Houses, electrified upto March, 2011 to 65125.

5.8 PUMP SETS/ TUBE WELLS ENERGIZED:

1707 No. of Tube wells and pump sets were energized during the year 2010-11. The total No. of tube wells/ pump sets, energized ending March, 2011, are 17639.

6.9 CONSUMERS SERVED AND CONNECTED LOAD:

51708 Nos. consumers of various categories with connected load of 319845.47 KW, were added during the year under report and the percentage increase works out to be 2.69% and 6.72% respectively, thus raising the total to 1969397 numbers of consumers and 5078151.641 KW of connected load at the end of March, 2011. Category-wise detail of consumers, served and connected load, has been given in Table 10 and 11 of chapter-11, respectively.

5.10 FINANCE FOR RURAL ELECTRIFICATION:-

Rural electrification corporation is a major development financing institution in the field of Rural electrification, and is the main source of financing our Rural electrification schemes. Funds available under the normal development programme (state plans) for rural electrification, are inadequate and these are mainly utilized to augment the sub-stations and lines in the already electrified areas of the Pradesh. Up to the end of March, 2011, M/S REC Ltd. has sanctioned project area schemes, worth ` 34882.708 lacs against which HPSEBL had drawn ` 30,391.365 lacs.

In addition to above, in order to mitigate the problem of ever growing line losses, M/S REC Limited have sanctioned 86 Nos. schemes under Central Elect. Norms (SI) category, amounting to ` 21326.956 Lacs, with loan of ` 17647.862 Lacs as loan assistance from M/S REC Ltd. The total loan assistance, drawn ending 03/ 2011, for SI schemes is ` 5117.717 Lacs

5.11 SYSTEM IMPROVEMENT SCHEMES:

7 No. System Improvement Schemes have been submitted to M/S REC Limited for approval/sanction. The details of which is as under:

Sr.No.	Name of Schemes	Amount
(i)	S.I. Scheme C/O 33/11KV, 2x3.15 MVA S/Stn. Holta.	` 392.60 Lacs
(ii)	S.I Scheme for Aug. of 33/11KV, S/Stn.at Bharwain	` 62.57 Lacs
(iii)	S.I Scheme for Aug. of 33/11KV S/Stn./ Sarahan	` 136.14 Lacs
(iv)	S.I Scheme for Aug. of 33/11KV S/Stn. Drang	` 329.08 Lacs
(v)	S.I Scheme for Aug. of conductor of 33KV Una Mehatpur line	` 33.30 Lacs
(vi)	S.I Scheme for const. of 33/11KV S/Stn. Shila-Bag	` 433.55 Lacs
(vii)	S.I Scheme for prov. Control & Protection system at 33/11KV S./Stn. Chobin	` 85.618 Lacs

5.12 ATAL BIJILEE BACHAT YOJANA:

Atal Bijli Bachat Yojna (ABBY) was conceptualized on the 15th April, 2008 which envisages energy conservation through Demand Side Management (DSM). The scheme was launched by the Hon'ble Chief Minister (H.P.) at Kullu on 23rd Nov, 2008.

Under the scheme each of the domestic consumers across the state (total of about 16.50 lac domestic consumers) were entitled to get 4 Nos. CFLs (2x20 Watts. + 2x15 Watts) free of cost as a replacement of an equal no. of incandescent bulbs.

The scheme has been implemented by Himachal Pradesh State Electricity Board.

HPSEB has received a financial support of Rs. 70/- Crore as loan from the state Govt. which has been paid back.

The distribution of CFLs was started during November, 2008 by HPSEB through its distribution S/Divisions and proper record of distribution has been kept.

The power factor (PF) of the CFLs distributed is >0.85 and they carry a warranty of 18 months during which defective/fused CFLs were replaced free of cost.

Scheme has further been extended to Govt. Offices / Public Undertakings / Institutions run by Govt. with preference to educational and health institutions to utilize left out balance quantity, free of cost on first come first serve basis.

The domestic consumers' who have become/registered as HPSEB Ltd.'s consumer on or before 31st March, 2010 were entitled to receive 4 CFLs free of cost on the replacement of equal number of Incandescent bulbs and 31st March, 2011 was fixed the cut-off date for CFLs distribution.

During the warranty period and for further period up to 31st July, 2012, all the fused CFLs under 'ABBY' will be taken back by the Manufacturers/Suppliers for the safe disposal as per the prevailing guidelines of the Central Pollution Control Board.

The replaced incandescent lamps have been destructed & disposed off as per the guidelines of the Central Pollution Control Board which is mandatory under the norms of the CDM.

On the implementation of the scheme, an estimated energy saving of approximately 274 MUs has been calculated during the period from January, 2009 to Jan, 2011 in the domestic sector and the market price of this saved energy is approximately 109 Crore.

HPSEB Ltd. is also in process to earn carbon credits under CDM mechanism of Kyoto Protocol for which the validation process is in progress.

4.7 LINEMAN TRAINING CENTRE:

Five lineman training centers had been sanctioned by M/s REC Ltd. Out of which one at Solan is functioning while the four centers have been cancelled by the Board, as the inflow of the trainees was reduced because most of the staff already got trained.

4.8 CLOSING OF ON GOING SCHEMES:

43 Nos. RE and 6 Nos. S.I schemes have been identified for closure during the year. Out of which 5 No. RE scheme and 1 No. S.I. Scheme have been closed during the year 2010-11, the detail of which is as under:-

Sr. No.	Name of scheme	Code No.	Date of sanction	Date of closing
1.	RE Scheme for Tehsil Fatehpur, Jawali Nurpur & Indora	060336	07.04.1999	28.07.2010
2	RE Scheme for Tehsil Dharamshala, Harchakian, Jawali, & Baroh Distt. Kangra	060391	30.03.2002	11.08.2010
3	RE Scheme for Tehsil Amb	060395	30.03.2002	15.06.2010
4.	RE Scheme for Tehsil Dehra, Jaswan, Rakkar & Khundian	060399	30.03.2002	27.04.2010
5	RE Scheme for Tehsil Kumarsain.	060400	30.03.2002	26.05.2010
6	SI Scheme for Const. of 33/11KV, 2x1.6 MVA S/Stn. at Pragpur (Dehra).	060352	07.04.1999	27.04.2010

Annexure-A.

LATEST STATUS OF RGGVY SCHEMES

(` in lacs)

S.No	Name of scheme	Scheme code.	Revised sanctioned Amount	Nos. of left out RHH (BPL) covered for electrification	Loan subsidy released upto March 2011	Expenditure upto 31.03.2011
(i)	RGVY Distt. Chamba.	HP-300001	6633.54	2531 (647)	5965.83	4851.41
(ii)	RGVY Distt. Solan	HP-300002	4618.79	3877 (1599)	3885.03	2304.33
(iii)	RGVY Distt. Una.	HP-300003	2302.81	3837 (964)	1935.33	1227.80
(iv)	RGVY Distt. Sirmour.	HP-300004	4969.72	3805 (1024)	4173.77	2859.47
(v)	RGVY Distt. Bilaspur	HP-300005	435.31	701(42)	387.57	276.25
(vi)	RGVY Distt. Hamirpur	HP-300006	596.85	1047(187)	500.63	373.35
(vii)	RGVY Distt. Kangra	HP-300007	2655.13	10107(3055)	2189.07	1841.74
(viii)	RGVY Distt. Mandi	HP-300008	3366.35	6301(1537)	2818.86	1741.75
(ix)	RGVY Distt. Shimla	HP-300009	5134.63	7686(2676)	3068.99	3839.81
(x)	RGVY Distt. Kullu	HP-300010	777.11	2492(520)	459.37	508.07
(xi)	RGVY Distt. Lahaul &Spiti	HP-100670	1324.20	999(194)	785.80	639.04
(xii)	RGVY Distt. Kinnaur	HP-100671	1371.89	1113(38)	814.81	704.89
	Total		34186.33	44496(124)	2698.06	21167.91

PLANING AND DESIGN

6.1. GENERAL:

In order to tap the vast Hydel Potential of the State, advance action is necessary for planning and design of Hydel Projects to facilitate proper selection of projects, on the basis of technical and economical consideration so that these could be executed speedily. Similarly, advance planning and designs of an adequate transmission and distribution network is necessary in order to evacuate power from these projects and its distribution for power utilization within/ outside the State. For achieving these objectives, various planning and design units have been functioning in the Board.

6.2 PLANNING UNIT AT BOARD'S SECRETARIAT:

At Board's level, this unit is headed by Chief Engineer (P&M) who is supported by Superintending Engineer (P&M) Electrical and Superintending Engineer (P&M) Civil. Superintending Engineer (P&M) Electrical is entrusted with the work of formulation of Five Year Plans, Tribal Sub-Plans and Special Component Plans and is also dealing with all other technical matters of electrical nature, which require the appraisal at Board/Govt. level. Superintending Engineer (P&M) Civil looks after the monitoring of various on-going Projects and is also entrusted with the scrutiny of technical matters of civil nature, requiring appraisal at the Board/ Govt. level.

6.3 OTHER PLANNING AND DESIGN UNITS:

P&D Units have also been functioning each headed by a Superintending Engineer (Designs) under the control of various Chief Engineers. The work allocated to these units is briefly given in the following paragraphs.

6.4 CHIEF ENGINEER (DESIGN), HPSEBL {Now General Manager (Designs), HPPCL, } SUNDERNAGAR:

This wing is mainly responsible for-

- i) Freezing of Project Layouts for implementation of Hydro Projects, taken-up in State Sector.
- ii) Preparation of Specification stage Designs & Drawings.
- iii) Preparation of Construction stage Designs & Drawings.
- iv) Preparation, processing & Evaluation of specifications & tenders of hydro-mechanical gates & valves.
- v) Technical Advice to field units during construction/ implementation stage.
- vi) Appraisal & evaluation of regulation & maintenance problems of already commissioned projects in State Sector.
- vii) Technical appraisal of issues, referred to it by the Board.
- viii) Concrete/ Soil/ Rock testing works in State Sector/ Pvt. Sector/ Joint Sector.

This wing was looking after the works of ongoing Projects of HPSEBL including a few projects of HPPCL till April, 2008 and was placed under the control Himachal Pradesh Power Corporation Ltd. during April, 2008. During the year 2010-11 this wing has carried out the works of HPPCL Projects related to planning feasibility studies/laboratory investigations, freezing of layout & detailed design engineering of integrated Kashang, Sawra Kuddu, Shongtong Karcham, Sainj, Chirgaon-Majhgaon, HEPs and Renukaji Dam Project besides works related to ongoing as well as commissioned projects of HPSEB Ltd. i.e. Uhl-Stage- III, Garvi Stage-II, Bhaba Augmentation Power House & Thirot HEPs.

Four (4) Design Units i.e. P&D (Civil)-I, II, III and P&D (Mechanical) were functional under the administrative control of this wing during the year 2010-11 Brief description of the works of HEP's in State Sector, under taken by respective Units, during the above period, is given here under: -

A P&D (CIVIL)-I, HPPCL, SUNDERNAGAR:

Functionally, this unit is associated with planning, design, detailed engineering and processing of specifications/ construction stage drawings of Diversion & Intake structures, Desanding Basins, Storage Reservoirs. Project wise description of works, under taken during the year 2010-11, is as under :-

1. Uhl Stage-III HEP (100MW):

Design & construction drawings for Excavation, Concrete & reinforcement, Khuddar reservoir spillway concrete and reinforcement, Khuddar Reservoir periphery wall, Khuddar reservoir spillway PVC Seal. Labankar Acqueduct excavation, concrete & reinforcement details. Anchor blocks, Neri Channel concrete & reinforcement, Bassi Tail Race Outfall concrete & reinforcement details etc.

B P&D (CIVIL)-II, HPPCL, SUNDERNAGAR:

This unit is functionally responsible for Planning, designs, detailed engineering and processing of specifications drawings/ construction stage drawings of penstock system/ Power House Complex and structural drawings of Building etc. Project-wise description of design & construction drawings carried out during the year 2010-11 is as under:-

(i) BHABAAUGMENTATION PROJECT:

Design & construction drawings of Tail Race Channel excavation, concrete reinforcement detail.

(ii) UHL STAGE-III HEP:

Design and construction drawings for Roof Plan of Power House complex, Unit bay excavation detail for raft foundation, control bay-raft concrete & reinforcement, control bay floor i/c Plinth Beam concrete & reinforcement control bay column concrete & reinforcement, Unit Bay -I, II & III, concrete & reinforcement around draft tube liner. Control bay Beam-concrete & reinforcement, Unit Bay spiral case pier-concrete & reinforcement, control bay-stair case, concrete & reinforcement, control bay slab-concrete & reinforcement, Unit bay Main Inlet valve foundation concrete & reinforcement, Unit Bay I, II & III spiral case foundation concrete & reinforcement. Generator foundation concrete & Reinforcement detail etc.

(iii) GHANVI STAGE-II HEP:

Design & construction drawings for combined/Unit Tail Race Tunnel-excavation, Rock support & lining. Power House complex- Unit bay & service bay concrete & reinforcement, Access/Tail Race Tunnel, concrete & reinforcement control bay-slab concrete & reinforcement etc.

C P&D (CIVIL)-III, HPPCL, SUNDERNAGAR:

This unit is functionally associated with planning, design, detailed engineering and processing of specifications/ construction stage drawings of Surge Shafts, Storage Reservoir and Head Race Tunnels of hydro-power projects. Project-wise description of design & construction drawings carried out during the year 2010-11 is as under:-

(i) THIROT HEP:

Design & construction drawings of water conductor system (WCS), CC Weir & Spillway arrangement.

(ii) BHABAAUGMENTATION PROJECT:

Design & concrete drawing of tail Race Outfall, Tail Race Channel & Transformer foundation showing concreting & reinforcement details.

D P&D (MECHANICAL), HPPCL, SUNDERNAGAR:

This unit is mainly entrusted with the designs & drawings works of hydro-mechanical components such as Gates & Hoists, Trash-Rack, Steel Penstock (including plate planning) and Butterfly Valves, including preparation of tender documents for fabrication, transportation & erection. Also preparation of Regulation & Maintenance Manuals, pertaining to operation of Gates/ Valves of old & newly constructed HE Projects is also carried out by this unit.

Projects-wise description of works under taken during the year 2010-11 is as under:

(i) Uhl Stage –III HEP:

Designs & drawings of Butterfly Valves, Neri Trench Weir Regulation Gate & single flushing gate of Neri Trench Weir, specification of air vent pipe. Spillway & regulatory gate for Bassi Tail Junction, emergency gate for Rana Khad trench weir etc.

(ii) Ganvi Stage –II HEP:

Design & drawings of Penstock Saddle support in Butterfly i/c technical specification and drawings etc.

(iii) Bhaba Augmentation HEP:

Design & drawings of Draft Tube Gate.

(iv) Thiroth HEP:

Design & drawings of Gate position indicator, limit switch Assembly, Gear & Pinion details, Plummer Block, Flexible coupling, Rope Drum & Shaft, Manual operation Mechanism & Turn Buckle General Hoisting Arrangement Emergency Gate (Rope Drum Hoist).

5. **Khauli Stage-II HEP:**

Design & drawings of Penstock – Plan & L-Section & forebay penstock intake gates etc.

6.5 **CHIEF ENGINEER (I&P), HPSEBL, SUNDERNAGAR:**

This Wing of HPSEBL has been assigned the S&I of Hydro Electric Schemes in Beas, Ravi & Chenab basins, formulation of IRs/ PFRs and DPR's and obtaining Techno-economic and MOEF clearance from Govt. of India. Following two units are working under this Wing:-

A SUPERINTENDING ENGINEER PLANNING CIRCLE No.I, HPSEBL, SUNDERNAGAR:

Main achievements for the year 2010-11(1.4.10 to 31.3.11) are as under:-

(i). PFRs PREPARED / SUBMITTED:

- Lujai HEP (42 MW)
- Saichu HEP (39 MW)
- Saichu Sach Khas HEP (96 MW)
- Chiroti Saichu HEP (24 MW)
- Sissu HEP (9 MW)

(ii). PROJECTS IDENTIFIED UNDER OPTIMIZATION STUDIES (BASED ON STUDIES FROM SOI TOPOSHEETS:

- Beas Kund HEP (13 MW)
- Balsoti-I HEP (9 MW)
- Balsoti-II HEP (21 MW)
- Upper Malana HEP (49 MW)
- Alaini-Jabri HEP (13 MW)
- Chhawed HEP (12 MW)
- Shansha HEP (12 MW)
- Kugti Rashil HEP (10 MW)
- Dheda HEP (20 MW)
- Chasag Stage-I HEP (18 MW)
- Chasag Stage-II HEP (9 MW)
- Gali HEP (7 MW)
- Ur-Daredh HEP (17 MW)
- Karu HEP (11 MW)
- Chokhang Thiroth HEP (12 MW)
- Godang Thiroth HEP (11MW)
- Cherna HEP (18 MW)
- Upper Mahal HEP (9 MW)
- Lower Mahal HEP (8 MW)
- Makkan Bihali HEP (12 MW)
- Upper Neogal HEP (8 MW)
- Kurhed HEP (6 MW)
- Uhl-Khalail HEP (10 MW)
- Shiram Uhl HEP (40 MW)

(iii). DPRs PREPARED / SUBMITTED:

- Surgani Sundla HEP (48 MW)
- Sai Kothi Stage-II HEP (16.5 MW)
- Revision of Cost Volume of Khauli-II HEP (6.60 MW) at Price level December, 2009.

(iv). DPR IN PROGRESS:

- Modified Devi Kothi HEP (27 MW).

(v). POWER POTENTIAL OPTIMIZATION:

- Studies to find out the left out power potential in Ravi, Beas and Chenab basins taken up.

(vi). HIMURJA SCHEMES:

- Inspection of various Himurja/IPP schemes has been conducted and certificate regarding interference/ overlapping with HPSEBL Schemes issued accordingly as per the requirement of Himurja from time to time.

B SUPERINTENDING ENGINEER PLANNING CIRCLE (CIVIL) HPSEBL MANDI:

This unit has been entrusted with the following works during the year 2010-11 (i.e. 1.4.10 to 31.3.2011.)

- (i) Study for finalization the shape and size of traffic tunnel for Bangana-Dhaneta.
 - (ii) Design and issue of drawings for the construction of office building at Palampur.
 - (iii) Balance works of UHL stage-III.
 - (iv) Design of civil works relating to O&M of projects under operation & other infrastructure of various projects.
5. Preparation of I.Rs of following hydel schemes in Satluj basin.
- (a) Khuddi HEP (13MW).
 - (b) Khamrala HEP (8.00MW)
 - (c) Bara Khamba HEP (25MW).

The work for preparation/formulation of DPR of the following projects/schemes was in progress during the year 2010-11:-

(i). Devi Kothi HEP (33MW) Modified:

This project is located on Balsio Nallah, tributary of Baira Nallah and sub tributary of river Ravi in Distt. Chamba, Himachal Pradesh. The project comprises of a trench weir on Balsio nalla at EL \pm 1800mtr, & one rectangular shaped concrete lined \pm 4.00km long power channel designed to carry 7.00 cumecs design discharge to surface power House near Village Niwa in Tissa Tehsil. The scheme can be approached through a motorable HPPWD Road about 100 km. from Chamba.

- Construction of inspection path up to different component of the scheme II (27 MW) has been completed.
- Gauge and discharge observations near village Laddan continued
- Almost all the Survey & Investigation works of the scheme has been completed.

(ii). Sai Kothi HEP Stage-II (15.00 MW):

This project is located on Baira Nala a tributary of Suil river and sub tributary of river Ravi in district Chamba. It is up stream development of Baira Suil HEP (180 MW) which is under operational with NHPC and an immediate downstream development of Sai Kothi HEP stage-I (17MW), which is under implementation in the private sector. In this scheme silt free water of Sai Kothi HEP stage –I (17MW), will be utilized. The project consists of the D- shaped Concrete lined \pm 3200 m long head race tunnel designed to carry 24.75 cumecs design discharge, a surge shaft 8m dia, 70 m deep and a pressure shaft bifurcating near underground Power House near Village Khakri. The tail race tunnel out let will be located at the confluence of Joiner nallah with Baira Nallah. The Scheme can be approached through a motor –able HPPWD Chamba – Tissa Traila road which is 80 Km from Chamba.

- DPR of the project has been prepared by the Planning unit of HPSEBL, and submitted to Higher authority.

(iii). Surgani-Sundla HEP(48 MW):

This project is located on Suil river, a tributary of Ravi River in Distt. Chamba, Himachal Pradesh. The intake structure of the project has been proposed at the end of tail race of existing Baira Suil HEP on the right bank a 350 mtr long RCC box type channel extending upto HRT inlet, a 5.65 mtr dia D-shaped 8500mtr long HRT designed to carry 85.50 cumecs design discharge of 50mtr deep open sky surge shaft, a 9.25mtr dia \pm 50mtr deep penstock to feed 2 No Frances Turbines generating units of 24MW each in surface power house on right bank of Suil River. A Tail race about 150mtr long has been proposed for discharging the flow back into the reservoir of Chamera Stage-I HEP.

- DPR of the project has been prepared by the planning unit of HPSEBL and further project has been allotted to HPPCL.

(iv). Chobia HEP Stage-I(15 MW):

This project is located on Chobia Nallah ,a tributary of Budhil nallah and sub tributary of river Ravi in district Chamba. A HRT of 3200m in length on the right bank of Chobia nallah and underground power house at EL \pm

2240 m up stream of Chobia Village. The scheme can be approached through a motor-able Chamba- Bharmour- Chobia HPPWD road about 85 Km from Chamba town.

- Gauge & discharge observations on Chobia nallah near village Seri & kao nallah for Chobia HEP Stage-I has been started w.e.f 21-2-2011

(v). Tundah HEP (18 MW):

This project is located on Tundah Nallah tributary of Budhil nallah and sub tributary of river Ravi in district Chamba .Intake is proposed at EL+ 1625 m, a surface desilting tank of size 115x12mx3.50m(effective) comprising two chambers, a head race tunnel ± 1750m long, forebay, 1.91 m dia. Penstock bifurcating in to 1.35 m dia branch near the power house to feed two generating units of 9 MW each to generate 18MW of power in a surface power house is proposed at EL + 1470 m on the right bank of Budhil nallah near village Seri. The scheme can be approached through a motor-able Chamba- Bharmour- Harchu HPPWD road about 76 Km from Chamba town.

- Gauge & discharge observations on Tundah nallah below Village Kadailu for Tundah HEP (18MW) has been started w.e.f 21.2.2011.

(vi). Hail HEP (14 MW):

This project is located on Chehni nallah in Distt. Chamba, H.P. a tributary of Baira Nallah and sub-tributary of river Ravi. The Diversion site is at EL 2320mtr just downstream of confluence of Kanjtu nallah with Chehni nallah below the village Hail A+ 2600 Mtr. HRT will be constructed to carry 3.79 cumes and design discharge of water upto Power House. The power House site has been proposed at EL 1880 Mtr. below the village Bishoga in Tehsil Churah Distt Chamba (H.P.)on the confluence of Chehni and Chuhar Nalla upstream at EL 850 mtr. This scheme can a approached through a motor-able HPPWD road about 110 Km. from Chamba.

- Gauge and discharge observations on Chehni nallah near village Tapa for Hail HEP has been started w.e.f. 1.1.2011.
- Construction of inspection path is in progress.

6.6 CHIEF ENGINEER (ELECTRICAL SYSTEM), HPSEBL, HAMIRPUR:

One Design Unit and one Protection & Testing Circle are working under Chief Engineer (ES), HPSEBL Hamirpur. The unit-wise duties are detailed as below:-

A SUPERINTENDING ENGINEER DESIGN (ES), HPSEBL HAMIRPUR:

This unit is overall incharge of Design, Preparation of specification and procurement of all kinds of electrical material/equipments required for 33KV and above sub-Stations in the State. During the year 2010-11 this unit has placed 13 No. Purchase Orders amounting to ` 4093.44 lacs on different firms for procurement of various sub-station equipments/material and 2 No. Awards for "Supply and Erection" on Turn Key basis amounting to ` 1193.73 lacs for (i) C/O additional 1 No. 220KV bays and 2 No. 66KV feeder bays at 220/66KV Sub-Station Uperla Nangal (Nalagarh) amounting to ` 191.94 lacs and (ii) C/O 132/33KV 1x25/31.5 MVA Sub-Station at Maliana in District Shimla amounting to ` 1001.79 lacs. 34 No. drawings have also been prepared/approved and issued to field units for the construction of various Sub-Stations in H.P.

B SUPERINTENDING ENGINEER (P&T) HPSEBL, HAMIRPUR:

The office of Superintending Engineer (P&T), HPSEB, Hamirpur has been created during March,2011. This unit is overall in-charge of Protection and Testing of EHV System i.e. Transformers & other sub-station equipments in the State.

6.7 CHIEF ENGINEER (GENERATION), HPSEBL, SUNDERNAGAR:

The Generation Wing of the Board is headed by Chief Engineer (Generation) with its head-quarter at Sundernagar. At present, Two Design units are functioning under Chief Engineer (Gen.).

A SUPERINTENDING ENGINEER DESIGN, POWER HOUSE (ELECTRICAL), HPSEBL, SUNDERNAGAR:

This unit is dealing with planning, design, framing of specifications and procurement of Electro-mechanical equipments of new HEPs such as Bhaba Augmentation Power House (2x2.25MW) as well as for Renovation & Modernization of Power Houses. In addition this unit has been entrusted with synchronization and commercial operation of various

small HEPs executed /being executed by various IPPs in the state. The status of on going projects being executed by the Board is as under:-

(i) BHABAUGMENTATION POWER HOUSE (2X2.25MW):-

The work of procurement, erection, testing and commissioning of Electro Mechanical equipments amounting to ` 9, 87, 14,890/-(` Nine Crore eighty seven Lac fourteen thousand eight hundred ninety) only has been awarded to M/S VA Tech. Escher Wyss Flovel Ltd. Faridabad (Haryana) on 11.09.2007. The supplies of major equipments have been received at site. The order of other switchyard equipments has also been placed. The erection work of equipments is in progress. The project is scheduled to be commissioned by the end of July, 2011.

(ii) RMU & LE OF BASSI POWER HOUSE:-

The work for Renovation, Modernization, Up rating and Life Extension amounting to ` 71 Crore plus taxes has been awarded to M/S VA Tech. Escher Wyss Flovel Ltd. Faridabad (Haryana) on 3.08.2007 for Electro Mechanical Equipments, supply and services. Subsequently, the additional orders for ` six crores have also been placed for the supply & replacement of Turbine Shaft, Support of Upper Generator Brackets, Fire fighting equipments & other optional items. The Unit No.IV commissioned on 30.3.2010 after renovation work, the work of Unit No.III, is in progress and likely to be commissioned in August, 2011. The Unit No.II & I are likely to be re-commissioned in November & December, 2011.

B SUPERINTENDING ENGINEER DESIGN (ELECT.) UHL STAGE-III, HPSEBL, SUNDERNAGAR:

This unit has been assigned the planning, design, framing of specifications and procurement of Electro-mechanical-equipments for new projects i.e. Uhl-Stage-III (100 MW) and Ghanvi-Stage-II (10MW).

(a) UHL STAGE-III (100 MW):-

(i) Main Electro-Mechanical Equipment:-

The notification of award for supply, transportation, erection and commissioning of the generating equipments and their associated auxiliaries and EOT Crane has been issued to M/S Bharat Heavy Electrical Limited, New Delhi on 15th February 2007. The total contract price for entire scope of work is ` 117.36 Crore. The preparation of contract document is in progress.

Main equipments covered under this package are:-

Sr.No.	Description
	Hydro- generating equipment viz Turbine, Generator, Associated Equipment and Auxiliaries, Control Monitoring and Protection Equipment. Generator Transformer, Station Transformer, UATs and SATs. EOT Crane.
(ii)	EOT Crane has been erected in service bay.
(iii)	The erection of Draft Tube Liner, Lower Pit Liner and Upper Pit Liner upto Lower Pit Liner of all units has been completed.
(iv)	The Material Dispatch Clearance Certificate (MDCC) for Spiral Casing, DT Cone, Coolers, Stator Assembly and Wound Pole Assembly of Unit-I,II and rim punching of generator, 500kVA, 11/0.415 kV UAT & 2 No. 1000kVA, 11/0.415 kV SAT etc. issued.
(v)	The Material Dispatch Clearance Certificate(MDCC)for Static Excitation System & SCADA system has been issued
(vi)	The Material for 132 kV PTs, Governor Panel, Line Control & Protection System received.
(vii)	The notification of award for 132 kV SF6 circuit breakers, isolator with and without earth switches, lightning arresters and its supporting structure of switchyard has been issued to M/s ABB, Faridabad on 25 th April 2008 amounting to ` 385.66 Lac. Material received at site. The inspection of 132 kV SF-6 circuit breakers has been completed.
(viii)	The NIT for 11kV Vacuum Circuit Breakers with its panel Elevator, 220kV Battery a/w charger has been issued/floated
(ix)	The design of earth mat has been completed and the drawing of mat to be laid down in the power house and switchyard have been issued to the field units.
(x)	The NIT for third party inspection for UHL-III power house has been issued/ floated.
(xi)	The notification of award for Illumination and Electrical Installation for UHL-III power house has been issued on 24.4.2010.

(b) GHANVI STAGE-II HEP (2x5MW):

(1) Electro-mechanical equipments and switchyard equipments / structure/ EOT Crane package. The major equipment covered under this package.

- (i) Electro-mechanical equipments viz. Turbine, Generator, Associated Equipments and Auxiliaries, Control Monitoring and Protection Equipment UATs Station Transformer and Generator Transformer.
- (ii) Switchyard equipments and structure.
- (iii) EOT Crane.
- (ii) The notification of award for hydro generating equipments, their associated auxiliaries, transformer, EOT Crane and Switchyard equipment has been issued to M/S VA TECH. Faridabad on 24th April 2008 amounting to ₹ 1886.26 Lac.
- (iii) The inspection of Generators, EOT Crane & Draft tube assembly has been carried out.
- (iv) Due to change in proposal of 22kV Switchyard to 66kV, supplementary notification of award for 66kV Switchyard equipments placed to M/s Andritz on 24.4.10 and contract being signed.
- (v) The design of earth mat for 22kV Switchyard has been completed but due to change in proposal from 22kV to 66kV, the design of earth mat for 66kV is now being finalized.
- (vi) The NIT for Illuminations, Electrical Installation, AC and Ventilation System floated and case is under process.
- (vii) The preparation of tender specification of balance auxiliary equipments of the power house is in progress.

6.8 CHIEF ENGINEER (SYSTEM PLANNING), HPSEBL, SHIMLA:

During the year under report, the following units were functioning under Chief Engineer (SP), each headed by an officer of the rank of Superintending Engineer (Electrical):

- (A) Superintending Engineer (Power House and ES) Planning, Shimla-4.
- (B) Superintending Engineer (System Power) Planning, Shimla-4.
- (C) Superintending Engineer, RGGVY Cell, Khalini, Shimla-2.

The detailed tasks, entrusted to these units and achievements during the year 2010-11, are detailed below:-

A SUPERINTENDING ENGINEER (P. HOUSE & ES) PLANNING HPSEBL, SHIMLA:

This Unit was entrusted with the following tasks during the year 2010-11:-

(a) Following claims were submitted to M/s PFC/ REC authorities.

- (i) Disbursement of 14th claim of ₹ 98,37,911/- under RMU&LE Works of Bassi Power House sent to M/s PFC for reimbursement.
- (ii) Disbursement of 15th claim of ₹ 1,61,51,720/- under RMU &LE works of Bassi Power House sent to M/s PFC for reimbursement.
- (iii) Disbursement of 16th claim of ₹ 50,53,001/- under RMU & LE works of Bassi Power House sent to M/s PFC.
- (iv) Disbursement of 17th claim of ₹ 67,50,450/- under RMU&LE works of Bassi Power House sent to M/s PFC.
- (v) Disbursement of 18th claim of ₹ 3,64,00,823/- under RMU&LE works of Bassi HEP sent to M/s PFC.
- (vi) Disbursement of 19th claim of ₹ 1,07,32,516/- under RMU &LE works of Bassi Power House sent to M/s PFC.
- (vii) Disbursement of 20th claim of ₹ 75,37,283/- under RMU &LE works of Bassi Power House sent to M/s PFC.
- (viii) Disbursement of 21th claim of ₹ 2,26,32,512/- under RMU&LE works of Bassi Power House sent to M/s PFC.
- (ix) Disbursement of 22nd claim of ₹ 1,69,73,145/- under RMU&LE works of Bassi Power House sent to M/s PFC.
- (x) Disbursement of 23rd claim of ₹ 1,80,17,609/- under RMU&LE works of Bassi Power House sent to M/s PFC.

(b) DPRs of following 21 Mini/Micro Hydro electric Projects submitted by IPPs through Chief Engineer (Projects)/Chief Engineer (Energy) were examined (Electro Mechanical Chapter) & TEC was recommended. Power evacuation from these Projects was planned in co-ordination with the field units.

Sr. No.	Name of Project	Capacity (MW)
(i)	Leond	2.00
(ii)	Balseo	5.00
(iii)	Palchan Bhang	9.00
(iv)	Roolang	1.20
(v)	Jongini	12.00
(vi)	Sarsadi	9.60
(vii)	Sarsadi-II	5.40

(viii)	Halindi	1.60
(ix)	Sharni	9.60
(x)	Uhalkhad	14.00
(xi)	Balarga	5.00
(xii)	Dhamwari Sunda	70.00
(xiii)	Selti Musharang	24.00
(xiv)	Umli	14.30
(xv)	Barakhamba	25.00
(xvi)	Bagipul	1.00
(xvii)	Shrikhand	8.0
(xviii)	Banganga	5.00
(xix)	Kurmi	8.00
(xx)	Rupin	45.00
(xxi)	Raura-II	20.00

B SUPERINTENDING ENGINEER (SYSTEM POWER), PLANNING HPSEBL, SHIMLA-4:

This Unit was entrusted with the following tasks during the year 2010-11:-

- (i) Project Report for Construction of 66/22kV 2x6.3 MVA Sub-Station at Chopal alongwith 66kV S/C line on D/C towers from 66kV Sub-Station Sainj to Chopal for ` 2612/- lac submitted to the Board for according A/A & E/S.
- (ii) Project Report for Augmentation of one Bank (Single Phase) of 220/66kV, 1x25/31.5MVA to 220/66kV, 1x80/100MVA (each including 1 No. spare) and Augmentation of 1x25/31.5 MVA at Kotla Sub-Station, amounting to ` 1348 lac submitted to the Board for according A/A& E/S.
- (iii) Loan claims against PSI scheme for strengthening of EHV system for meeting the Load of various industrial area under Short-Term Plan (060439) ` 439.28 lac sub mitted to REC
- (iv) Loan claims against scheme for up-gradation of EHV system for meeting of load requirement of the State under Medium Term Plan (SEB-060-2009-3296) amounting to ` 491.34 lac submitted to REC.
- (v) Project Report for Augmentation of 66/11kV, 2x6.3 MVA Transformer with 66/11kV, 1x20MVA at 66kV Sub-Station Totu amounting to ` 301.50 lac submitted to the Board for according A/A & E/S.
- (vi) Project Report for Aug. of 132/33kV, 1x8 MVA Transformer to 1x16/20 MVA at 220kV S/Stn. Kunihar amounting to ` 246.68 submitted to the Board for according A/A& E/S.
- (vii) Project Report for Aug. of 220/132kV, 2x50/63 MVA Transformer to 2x80/100MVA at 220/132kV Sub-Station Girinagar amounting to ` 1324.99 lac submitted to the Board for according A/A& E/S.
- (viii) Project Report for Addition of 220/132kV, 2x50 MVA Transformer at 220/132kV Sub-Station at Jassore amounting to ` 1616.38 lac submitted to the Board for according A/A& E/S.
- (ix) Project Report for Construction of 132kV S/C line on D/C tower from 132kV Sub-Station Dehan to 132kV Sub-Station Kangra & Augmentation of 2x16MVA, 132/33kV Transformer at Dehan to 2x25/31.5 MVA amounting to ` 3137.55 lac submitted to the Board for according A/A& E/S.
- (x) Project Report for Construction of 220kV D/C line from Mattansidh to Kangoo with Twin Zebra conductor amounting to ` 6312.45 lac submitted to the Board for according A/A& E/S.
- (xi) Project Report for Construction of 220kV D/C line from Kunihar to Rauri (up to last point of Kangoo- Rauri 220kV D/C line amounting to ` 1593.40 lac submitted to the Board for according A/A& E/S.
- (xii) Annual Electricity Data (APS) for the year 2010-11 and Details of Major Industries having demand 1MW & above submitted to CEA New Delhi amounting to ` 3137.55 lac has been submitted to the Board for according A/A & E/S.
- (xiii) Project Report for providing 66/22kV, 1x 6.3 MVA Sub-Station at Akpa amounting to ` 874.09 lac submitted to the Board for accordingly A/A & E/S.
- (xiv) Reimbursement claim against scheme for strengthening of EHV system in Nalagarh and Baddi area by providing 220/66kV 2x100MVA Sub-Station at Nalagarh (Bayal) in Solan Distt. Amounting to ` 1536.64 lac code No. 060453 submitted to M/S REC Shimla.
- (xv) Loan claim against scheme for up-gradation of EHV system for meeting the load requirement of the State under Medium-term plan submitted to the Board for according A/A & E/S for ` 71.00 lac.
- (xvi) Agenda of 54th meeting of EHV Transmission Committee was finalized. The meeting was held on 14.09.2010 and minutes of 54th meeting of EHV were circulated to all concerned.
- (xvii) Loan Claim against scheme for providing 66kV unmanned Sub-Station at Devani with 66/11kV, 2x10MVA Transformer by construction of 66kV S/C line on D/C towers from 66kV Akkanwali Sub-Station to Davani for ` 240.23 lac submitted to M/s REC Shimla.
- (xviii) Revised Project Report for construction of 66/22kV 2x6.3MVA Sub-Station at Chopal along with 66kV S/C line on D/C Towers from 66kV Sub-Station Sainj to Chopal for ` 2378 lac submitted to the Board for according A/A & E/S.

- (xix) Prepared the data for 18th Electric Power Survey and Annual Power Survey after collecting from field units. Attended the meetings in CEA/NRPC for finalization of the category-wise actual load demand for year 2003 to 2011 and category-wise load forecast for the year 2011 to 2021 for 18th Electric Power Survey.
- (xx) Submitted the data to NRPC for capacitor requirement study for the year 2012-13. Correspondence regarding Shunt Capacitors, installation of new Capacitor banks and meeting thereof.
- (xxi) Preparation of data for Annual Administration Report and monthly important decision & achievements.
- (xxii) Liaison with M/A PFC Ltd./REC Ltd.. regarding Financial Assistance in respect of various Transmission/ Sub-Transmission Scheme & submission of re-imburement/payment claims received from concerned Chief Engineers against various PFC/REC Financial Transmission Scheme.

C SUPERINTENDING ENGINEER (RGGVY), HPSEBL, KHALINI, SHIMLA-2:

This unit of (P&D)REC, was renamed as Directorate of RGGVY Cell vide then Secretary, HPSEB, Shimla-letter No. HPSEB (Sectt.)/HRD/2-5/2005-64567-767 dated 5.9.05 and its head-quarter shifted from Dalhousie to Shimla. RGGVY is headed by the Superintending Engineer (Electrical), under the administrative control of Chief Engineer (System Planning). This office has two units viz. projects, monitoring and system cells. In addition to routine duties, these cells are entrusted with the preparation of Rajiv Gandhi Grameen Vidyutikaran Yojna Schemes, Re-structured APDRP-Schemes, RE Schemes, System Improvement Schemes, T&D Schemes upto 33KV, Appraisal, Monitoring of progress, loan drawl and closing of such schemes. In addition, annual working programme and STC agenda alongwith Minutes of Meeting & REC / SI cost data are also prepared in this office.

6.9 CHIEF ENGINEER(SO), VIDYUT BHAWAN, HPSEBL, SHIMLA-4:

Following units are functioning under Chief Engineer(System Operation), each headed by an officer of the rank of Superintending Engineer (Elect.):-

- i) Superintending Engineer (Inter State),HPSEBL, Totu, Shimla-11.
- ii) Superintending Engineer,SLDC,HPSEBL, Totu,SHIMLA-11.
- iii) Superintending Engineer (PR&CERC), HPSEBL, Totu, Shimla-11.
- iv) Superintending Engineer (IT), HPSEBL, Shimla-04.

A SUPERINTENDING ENGINEER (INTERSTATE), HPSEBL, SHIMLA-11:

- i) To prepare short term prospective plans of power supply position in the state.
- ii) To tie up arrangements for sale of surplus power during summer and purchase of additional power to mitigate energy shortages during winter .
- iii) To finalize power purchase agreements with Central Sector Power Utilities for operating as well as new projects.
- iv) To maintain energy accounts for the energy drawn from Central Sector, Joint Sector and Independent Power Projects (excluding Mini/Micro HEPs).
- v) To prepare technical data for raising bill on the beneficiaries for the energy sold and wheeled by Himachal Pradesh as per bilateral agreement.
- vi) To accept energy purchase and wheeling bills as per NREB booking statements and the tariff notification issued by the Government of India approved by CERC (in respect of Central Sector Projects) & bilateral agreement.
- vii) A table indicating the share of H.P. in generation in other Projects is shown in Table-16 of Chapter-11 "TABLES".

B SUPERINTENDING ENGINEER, SLDC, HPSEBL, SHIMLA-11:

- (i) The office of Superintending Engineer alongwith its Sr. Executive Engineer has been re-designated as Accounting Circle and D.D.O respectively by HPSEBL vide office order No. HPSEB/F&A/ A&R -1/209-2616-2915 dated 31.12.2009 and even file No. 21060-21280 dated 03.06.2010 & they have initiated functioning as such w.e.f. 01.04.2010.
- (ii) Data link and speech link have been successfully established between SLDC and Baspa Hydro Electric Projects on 07.05.2010 and 21.05.2010 respectively.
- (iii) Remote Terminal unit at 132 KV Sub-Station Bajaura has been commissioned and integrated with SLDC system on 27.08.2010.

C DIRECTOR (PR&CERC), HPSEBL, TOTU, SHIMLA-11:

State Load Despatch & communication Centre (SLDC) working under HPSEBL is carrying out online control & management of power within the state of H.P. and Scheduling transaction of power with neighboring State/ Utilities under bilateral arrangements as well as sale & purchase of power on the platform of energy exchanges.

Apart from monitoring and regulation of power, Government of Himachal Pradesh has entrusted HPSEBL with the additional responsibility of transaction and account of its entitlements in NJHEP and NHPC projects and its further scheduling to M/s Power Trading Corporation, Delhi for sale to other agencies. These jobs are being accomplished efficiently through software named "SHKTI" which has been developed in house in association with programmers from DOEACC, Shimla. Also, a website with the domain name of <http://hpslhc.org> is in operation and data relating to aforesaid online activities is being uploaded daily on this website to facilitate Board's Authorities and other constituents of Northern Region to view and use the same in day to day working. The real time data is automatically updated every fifty seconds and report and other static data are manually updated as per the requirement (atleast once a day before 12.00 noon).

Trading of Power on the platform of Indian Energy Exchanges:

During the year 2010-11 HPSEBL has efficiently used the platforms of energy exchanges and transacted its surplus energy to the tune of 4790.24 lac units through Indian Energy Exchange and 455.18 lac units through Power Exchange of Indian Ltd. and earned revenue to the tune of ₹ 151.55 crore & ₹ 12.18 Crore respectively. The maximum demand on H.P. System during the year 2010-11 was 1278 MW on 28.01.2011 at 08.15 Hours. However month-wise maximum demand is given in Table-7 of Chapter-11.

D SUPERINTENDING ENGINEER (IT) HPSEBL SHIMLA-04:

IT Initiatives:

The following main IT initiatives are being undertaken in HPSEBL

A. Computerized Billing and Energy Accounting Package (IT Package):

- Under the 'Accelerated Power Development and Reform Program (APDRP)' launched by Ministry of Power (MoP), schemes for twelve circles were sanctioned. These schemes were focused on "Improvement of Sub-Transmission and Distribution System for reduction of energy losses in the system and introduction of State-of-Art Technology in Power System Information Technology for increasing the operational efficiency in the Boards with a view to make them financially viable.
- The brief scope of IT package implementation in HPSEB has been divided in three parts.

Part-1: Pilot implementation in 10 Sub-Divisions, two divisions under Shimla operation Circle & at Data Center at Kumar House along with setting up 12 seated call center and cash collection/customer service center infrastructure at Shimla.

Part-2: Rollover Implementation in 122 Sub-Divisions, of 22 Divisions under remaining 11 operation Circles of HPSEBL

Part-3: Annual Maintenance Contract (AMC) for three years.

- Under this project, the activities of the operation sub-divisions will be computerized through functionalities such as Pre-billing Activities, Billing Activities, Post Billing Activities, Legal & Vigilance Activities, Store Management at Sub-Division level, Customer Relationship Management, Electrical Network Management & Energy Accounting/Auditing and Management Information System (MIS)

• The Latest Status is as under:

Part-1

A pilot project under Part-1 of the Contract has been completed in operation circle Shimla for about 94000 consumers. Centralized data center and call center has also been established at Vidyut Bhawan, Shimla which is fully functional.

Part-2

The rollover project under Part-2 of the Contract covering remaining 11 circles, 24 Divisions and 122 Sub-Divisions covering more than 10 lac. consumers is under implementation. The hardware has already reached at all locations and has been installed. The connectivity has been made available in the last one month at 18 locations. The project is expected to be completed by 31st March 2012.

• Future Plan:

The project will be rolled out in 61 Sub Divisions not covered under IT package. Hardware for which has already been included in the Bid floated for ERP hardware.

B. GIS/GPS Based asset Mapping including Consumer Indexing and Valuation of Assets (GIS Package):

- HPSEBL has decided to carry out GIS/GPS based asset mapping including consumer indexing and valuation of assets for whole HPSEB Ltd, which will be used as the base for computerization of billing, energy

accounting, electrical network management, CRM and Management Information System (MIS) and to create Fixed Assets Registers with its present value for its three wings namely Generation, Transmission and Distribution after proper reconciliation with latest balance sheet of the Board.

- GIS based Assets Mapping Consumer Indexing and Valuation of Fixed Assets of HPSEB Ltd called "GIS packages" Part-1 within geographical boundaries of Shimla Operation Circle is almost complete except integration with billing package. For the remaining 11 Operation Circles work is in progress and completion date for the balance work is May 2012.

C. Implementation of an Enterprise Resource Planning (ERP) Package:

The award has been issued to M/s TCS on dated 21.04.2010. The Contract has been signed on 17.06.2010.

- "Go Live" of the pilot in 1st Phase covering Head Office and Operation Circle Shimla is expected to start in January, 2012 and is likely to be completed by March, 2012 .
- 2nd Phase of this project would cover the entire Board starting w.e.f. April, 2012 onwards. The left out modules/processes shall also be completed in this phase.

D. Restructured Accelerated Power Development and Reform Program (R-APDRP)- Part-` A':

The Steering Committee under Ministry of Power in its meeting at Delhi on 4th Sept, 2009 has sanctioned DPR's for 14 eligible towns under Part-` A' of the R-APDRP scheme for ` 81.07 Cr. Ministry of Power, Govt. of India, has launched the restructured Accelerated Power Development and Reforms Program (R-APDRP) in the XI Five Year Plan. Power Finance Corporation Limited (PFCL) has been designated by Gol as the Nodal Agency for the program. The program spans from data acquisition at distribution level till monitoring of results of steps taken to provide an IT backbone and strengthening of the Electricity Distribution System across the country under the program. The objective of the program is reduction of Aggregate Technical and Commercial (AT&C) losses to 15% in project areas.

Under Part-A of R-APDRP launched by Ministry of Power, 14 towns (namely Shimla, Solan, Nahan, Paonta, Baddi, Bilaspur, Mandi, Sundernagar, Chamba, Dharamshala, Hamirpur, Kullu, Una and Yol) have been found eligible (as per Census 2001 for special category state) for funding as per DPRs submitted to PFC.

Ministry of Power (MoP) has sanctioned ` 96.40 crore against DPRs of 14 eligible towns under Part-A of R-APDRP Project for Himachal Pradesh in August, 2010. The total project cost for Part-A under R-APDRP is ` 128.27 Cr.

- a) Meter Data Acquisition System (MDAS)
- b) Energy Audit (EA)
- c) Identity & Access Management System is proposed at data centre level
- d) Management Information System (MIS) containing DW & BI tools is proposed at data centre level
- e) Enterprise Management System (EMS) and Network Management System (NMS) which is part of hardware, is proposed at data center level

The focus of the R-APDRP, Part-' A' Scheme is on actual demonstration performance in terms of sustained loss reduction. Establishment of reliable and automated systems for sustained collection of accurate base line data through adoption of information technology in the area of energy accounting.

The case has been approved in the special meeting of the Board held on 25/03/2011 for award on M/s HCL Infosystem Ltd. for ` 99.14Cr. The case has been approved by Distribution Reforms Committee (DRC) on 21/04/2010 and submitted to PFC for approval of Steering Committee on 7th July 2010 for revision in cost of DPRs.

The award was placed during Sept. 2010. The Pilot Project is expected to be completed by March 2012. The rollover is expected to be completed by August 2012.

The related civil works are almost complete. The other IT hardware and software work is in progress.

MATERIAL MANAGEMENT

7.1 GENERAL:

Central Purchase Organization in the Himachal Pradesh State Electricity Board Limited which looks after the material management is headed by the Chief Engineer (MM) who is handling the procurement of Centralized Electrical items & general items viz vehicles & machinery in accordance with the annual requirements, received from the various Chief Engineers of the Board. Specialized items of Electrical Equipment/ Machinery is however, looked after by the respective Design Directorates. The Chief Engineer (MM) also deals with the procurement of stationery articles, printing of various FORMS, REGISTERS and BOOKS, relating to Commercial Sales Tax matters, Management of stores and Inventory Control etc. Also in its capacity as Member Secretary to the State Purchase Committee of the Board, the Chief Engineer (MM) arranges approvals of all the purchase cases, pertaining to different units of the Board from the Store Purchase Committee.

During the year 2010-11, 15 No. tenders were decided and 68 No. supply orders were placed for material amounting to ` 12730.17 Lacs and 23 No. supply orders were placed for printing and stationary amounting to ` 90.66 Lacs (Total value of ` 12820.83 Lacs).

7.2. PURCHASE REQUISITIONS AND PROCUREMENT (EXCL. STATIONERY AND PRINTING):

In all, 28 Nos. fresh requisitions were received from the field units for the year 2010-11 for arranging various items of stores. There were 6 requisition pending from the last year 2009-10 & 22 Nos. requisitions were cleared during the year 2010-11. All out efforts were made to arrange the material so as to maintain the constant flow of material to all the field units. The position of requisitions and their disposal is as under:-

Sr. No.	Description	Nos.
(i)	Purchase requisitions pending at the end of the year 2009-10	6 Nos.
(ii)	Fresh requisitions received during the year 2010-11	28 Nos.
(iii)	Requisitions cleared during the year 2010-11	22 Nos.
(iv)	Requisitions pending at the end of the year 2010-11	12 Nos.

7.3 PURCHASE ORDERS (EXCLUDING PRINTING AND STATIONERY):

Detail of supply orders placed for various items of stores excluding printing and Stationery, during the year 2010-11 is as under:-

Sr. No.	Description	No. of supply orders.	Amount / Value (` in lacs).
((i)	Supply orders placed direct on suppliers (2010-11).	57	12541.94
(ii)	Supply orders placed against rate contracts including supply orders for cement & steel (2010-11).	11	188.23
(iii)	Total supply orders placed (i+ ii)	68	12730.17
(iv)	Spill over value of supply of material from previous year (2009-10).	-	4916.22
Total (iii+iv).			17646.39

7.4. SUPPLY ORDERS FOR PRINTING AND STATIONERY:

Detail of supply orders, placed for printing and stationery during the year 2010-11 is as under:-

Sr. No.	Description.	No. of supply orders.	Amount/ Value (` in lacs).
(i)	Printing.	19	82.63
(ii)	Stationery.	4	8.03
Total (i + ii).		23	90.66

7.5 MISCELLANEOUS RECEIPTS:

Detail of miscellaneous receipts during the year 2010-11 is as under:-

Sr.No.	Description	Amount /Value(` in Lacs).
(i)	Sale of Tender Specifications.	1.16
(ii)	Earnest money.	20.02
(iii)	Permanent Security fee deposited(with in State).	-
(iv)	Registration of firms (amount of registration fee and cost of Form): 7(Seven) No. firms have been registered/ enlisted during the year 2010-11, out of which 3 Nos. are H.P. based and 4 Nos. are out side the State (including renewal of registration).	5.65

7.6 INVENTORY MANAGEMENT:

The Inventory management is one of the important functions of the purchase organization. All out efforts were made to procure various items, required in the field and at the same time it was ensured that the items do not pile up beyond requirement. The following step were taken to limit the inventories in the stores:-

- (i) The stock balances were checked before finalizing of further purchase orders.
- (ii) Efforts were made to see that the Reserve Stock Limits of the stores as fixed by the Board for various Chief Engineers are adhered to by them and to procure the material as per requirement of annual working programme as per the requisitions, received from various Chief Engineers.
- (iii) In order to reduce the stock inventories, action for computerization of Inventory control was initiated. Major items of stores have been codified on the basis of Tata Consultancy Report of 1984.
- (iv) Concrete efforts were made for condemnation and disposal of Surplus/ Un-serviceable/Obsolete material.

FINANCE , ACCOUNTS AND AUDIT

8.1 GENERAL:

In accordance with Section-69 of Electricity (Supply) Act, 1948, read with section 185 of electricity Act, 2003, the Finance & Accounts Wing of HPSEBL has been assigned the functions of maintaining Accounts of the Board, preparation of final Accounts and Budget of the Board and exercising an internal check over the Accounts, being maintained in various offices of the Board. Besides, exercising over all financial control on the expenses, incurred by the Board, this Wing is responsible for all financial planning and financial forecasting and funds management as well as reporting on receipts and disbursement of the Board. The F&A Wing is headed by the Chief Accounts Officer, who functions under the overall supervision of Director (F&A). The Comptroller and Auditor General of India through the Accountant General of Himachal Pradesh, Shimla is the Statutory Auditor of the Board. Besides M/s Anil Karol & Co. Chartered Accountants, 77, 1st Floor Lower Bazar, Shimla has been appointed Statutory Auditor of HPSEBL. for the FY 2010-11 by the CAG of India under Section 619(2) and Pr. Account General (Audit) HP for supplementary audit U/S 619 (3) & (4) of the Companies Act 1956. The Annual Statement of Accounts of the Board for the year, 2010-11, (i.e. 1.4.2010 to 13.06.2010 & 14.06.2010 to 31.03.2011) has been prepared as per new Commercial Accounting System in accordance with the provision, contained in the Electricity (Supply) Annual Accounts Rules, 1985 and accounts of HPSEBL on accrual method accounting with the accounting standard issued by the Institution of Chartered Accountants of India. The Accounts for the year, 2009-10 along with Audit Report therein, have already been laid on the table of the Legislature Assembly on 01.04.2011. The statutory audit of the final accounts of HPSEBL as required under company Act. is presently under process and would be laid in Vidhan Sabha when the Final Accounts are duly audited and approved.

8.2 REVENUE RECIEPTS AND REVENUE EXPENDITURE:

The Revenue Receipts and Revenue Expenditure during the financial year, 2009-10 and 2010-11, were as under:-

		(₹ in Lacs.)	
Sr.No.	Revenue Receipts	2009-10 based on audited Accounts.	2010-11 based on Un-audited Accounts.*
(i)	From Sale of Electricity	297835.10	344963.13
(ii)	From other sources	7018.83	8869.52
(iii)	From Subventions/Subsidies from State Govt./Others.	20.00	5.00
	TOTAL	304873.93	353837.65
	Revenue Expenditure		
(i)	Power Purchased	217159.59	262195
(ii)	Operating Expenses and other Expenses, excluding depreciation & Interest & Finance charges (expenses, capitalized, have been excluded) & other debits Schedule-15&16.	80444.27	99582.69
(iii)	Depreciation	10550.99	13357.55
(iv)	Interest On Loans		
a)	R.E.C. Loans	2980.15	3443.52
b)	L.I.C. Loans	2046.88	1822.74
c)	Market Borrowings	157.80	79.40
d)	Other Loans	12302.95	21969.12
e)	Government Loans	186.95	174.26
f)	Cost of raising finance etc. (i/c portion of interest on G.P.Fund)	7627.39	554.22
	Total Interest	25302.13	28043.26
	LESS:-		
(v)	Interest & Finance Charges capitalized	7681.36	10144.89
	Net Interest	17620.77	17898.37
(vi)	Total Expenses (1to4)	325777.62	393033.72
(vii)	Profit/Loss during the year	20903.69 (Loss)	39196.07 (Loss)
(viii)	Net Prior Period (Credits) / debits	5621.27	(11900.78)
(ix)	Net position after adjustment of prior period (credits)/ debits (Profit / Loss)	15282.42 (Loss)	51096.85(Loss)
(x)	Rate of Return Achieved.	-5.34%	-16.71%

*2010-11 figures are provisional.

As per section-59 of the Electricity (Supply) Act, 1948, read with section 185 of electricity Act, 2003, every Electricity Board is required to achieve 3% minimum rate of return. During the year 2010-11 minimum Rate of Return of 3% could not be achieved.

8.3 CAPITAL EXPENDITURE:

Capital Expenditure to the tune of ₹ 49586.74 lacs was incurred during the year, 2010-11 and the break-up thereof is given as under:-

(₹ in Lacs)					
Sr. No.	Fixed Assets	Value progressive at the beginning of the year 2009-10	Additions during the year 2010-11*	Assets Transferred During the year 2010-11	Value as on 31.3.2011
(i)	Land and Land Rights.	7001.09	281.92	0.00	7283.01
(ii)	Buildings.	22464.41	188.77	0.00	22653.18
(iii)	Hydraulic Works.	121915.58	135.10	0.00	122050.68
(iv)	Other Civil Works.	50307.37	777.37	0.00	51084.74
(v)	Plant & Machinery.	121377.71	9264.64	0.00	130642.35
(vi)	Lines & Cables, Net-Works.	129118.87	15901.97	19907.72	125113.12
(vii)	Vehicles.	2491.59	115.92	0.00	2607.51
(viii)	Furniture and Fixtures.	1589.47	6.63	0.00	1596.10
(ix)	Office Equipments.	1149.52	149.34	0.00	1298.86
(x)	Assets not belonging to the Board.	7038.07	0.00	0.00	7038.07
(xi)	Assets not in use	574.68	115.35	0.00	690.03
	TOTAL FIXED ASSETS	465028.36	26937.01	19907.72	472057.65
(xii)	Capital Works in Progress i/c IDC.	104027.79	22649.73	0.00	126677.52
	G.TOTAL :-	569056.15	49586.74	19907.72	598735.17

*2010-11 figures are provisional and based on un-audited accounts

8.4 BALANCE SHEET (ASSETS AND LIABILITIES):

(₹ .in Lacs)		
NET ASSETS:-	As on 31 st March 2010.	As on 31 st March 2011*.
Fixed Assets (Gross Block)	465028.37	472057.64
Less- Accumulated Depreciation	75490.61	88913.93
Net Fixed Assets	389537.76	383143.71
Capital Expenditure in Progress	104027.79	126677.52
Assets not in use	0.00	0.00
Deferred Cost	12921.87	12820.52
Investments	190756.09	212670.53
Net Current Assets	101074.59 Cr.	89527.13 Cr.
Deficit	38318.16	89415.00
Total	634487.08	735200.15
FINANCED BY:-		
Borrowings for Working Capital	65001.42	104320.57
Payments due on Capital Liabilities	24.26	32.30
Capital Liabilities	215677.43	261628.53
Funds from State Government	7748.60	2032.97
Equity from State Government	39653.18	39654.18
Special Ways and Means Advance on a/c of Natural Calamity Relief Fund (Refundable & Non refundable) from H.P. Govt.	49807.75	49807.75
Equity Share of HPSEBL in its Own Projects	57524.00	57524.00
Contributions, Grants and Subsidies towards cost of Capital Assets	94283.36	104877.31
Reserves and Reserve Funds	83295.69	92472.69
Security deposit from consumers	21481.39	22849.85
TOTAL FUNDS:-	634487.08	735200.15

*2010-11 figures are provisional and based on un-audited accounts

The Balance Sheet for the year, 2009-10 was duly audited and certified by the Statutory Auditors and the Balance Sheet for the year, 2010-11(1.4.10 to 13.6.2010) is audited by Accountant General, HP and CAG verification is awaited. The balance sheet for the period 14.06.2010 to 31.03.2011 is provisional and is yet to be audited by the Accountant General H.P. Shimla.

8.5 WAYS AND MEANS:

The Board's Capital Expenditure is being financed through Loans and a small percentage from its own resources. The capital funds are mainly raised from loans provided by:-

- (i) State Government.
- (ii) Institutional Finance against Bonds.
- (iii) Rural Electrification Corporation.
- (iv) Life Insurance Corporation.
- (v) Power Finance Corporation.
- (vi) Central Assistance.
- (vii) Other Agencies.

The Govt. of H.P. has however, provided equity capital of ` 234.00 crore by converting 50% of the Govt. loans of ` 468.00 crore outstanding as on 31.3.1993 into equity. Moreover, H.P. Govt. has also provided ` .162.53 Crore as equity share for construction of following projects, upto the year 2010-11.

(i)	Khauli Project	` 15.16 crore.
(ii)	Beas Valley Power Corporation	` 74.26 crore.
(iii)	Pabbar Valley Power Corporation	` 5.58 crore
(iv)	Ghanvi Stage-II HEP	` 5.12 crore
(v)	Larji Hydel Project	` 48.11 crore
(vi)	T&D Scheme	` 14.30 crore
	Total	` 162.53 crore

8.6 INTERNAL AUDIT:

The Internal Audit on Commercial and Works Accounts is an instrument of high managerial control by the Himachal Pradesh State Electricity Board Ltd. and this is being enforced in a regular manner. Besides the CA firms have been appointed to conduct audit of HPSEBL. under company Act, 1956.

8.7 INTERNAL AUDIT GROUP:

The Internal Audit Group of Finance and Accounts Wing is entrusted with the duties as under:-

- I) Carrying out perpetual audit of consumer accounts in the Electrical (Operation) Sub- Divisions.
- II) The audit of works Accounts in the Divisional Offices and other units of the Board.
- III) Physical verification of material in the Stores of the Board.

Accordingly, the Internal Audit Group continued to conduct the Internal Audit of the Board's Accounts, both for revenue receipts and expenditure, maintained in the field units with an overall watch on the performance and efficiency of these units during the year. Emphasis has been laid on a result oriented appraisal and effecting improvement in maintenance of Accounts at each level.

8.8 REVENUE AUDIT:

The number of Internal Audit Parties during the year was 32. As a result of audit of Revenue Accounts by the parties, cases of short assessment to the tune of ` 24,56,91,388/- were brought out during the year, out of this, a sum of ` 21,81,80,764/-stands accepted by the field units and debited to the respective consumers accounts for effecting recovery. The balance amount will also be recovered in due course of time after proper scrutiny of cases. The audit parties conducted audit of 1800 accounts months.

8.9 WORKS AUDIT:

There are two works audit parties, having headquarter at Shimla which have conducted the field audit of works accounts of 65 units of the Board during the year 2010-11 besides special audit on the directions of the Board Management.

A part from pointing out irregularities/shortcomings in the maintenance of accounts through Audit and Inspection reports of each unit, quarterly review notes on internal audit of works accounts were also circulated to all concerned units, including the management. The audit parties have also imparted training to the field units staff in maintenance of accounts with a view to ensure correct implementation of new Commercial Accounting System.

8.10 PHYSICAL VERIFICATION OF STORES:

There were 6 Stock Verifiers in position under F&A Wing during the year, 2010-11 and they conducted the stock verification of 73 stores/depots including sub- stores. As a result of stock verification, made by the stock verifiers, irregularities as mentioned below were noticed. All the concerned field units were directed to adjust the shortages/ surpluses in the accounts after observing all the codal formalities. The field units were also directed to dispose off the un-utilized material, either by utilizing the same on works or by transferring the same to the other needy units of the Board.

The following irregularities were detected/noticed:-

- (i) Material amounting to ` 3,20,459/- found surplus.
- (ii) Material amounting to ` 1,200/-found short.
- (iii) Material amounting to ` 12,13,05,891/- found unutilized for more than 5 years.

STATEMENT OF CAPITAL RECEIPTS FOR THE YEAR 2010-11 AND BUDGET ESTIMATES FOR THE YEAR 2011-12.

(` In lac)

Sr. No.	Particulars	Revised Estimates 2010-11	Actual Receipts 2010-11 *	Budget Estimates 2011-12
A. PLAN SCHEMES				
1	Loan from State Govt.:			
a)	PMGY Grant(now TSP)	178.00	0.00	120.00
b)	Loan for RGGVY	1200.00	607.89	943.50
	Total (1)	1378.00	607.89	1063.50
2.	Loans from Financial Institutions:			
(a)	R.E.C	32255.00	15947.09	53092.00
(b)	H.P. Co. Bank	30000.00	30000.00	0.00
(c)	Bank of Maharashtra	20000.00	20000.00	0.00
(d)	UCO Bank	20000.00	20000.00	0.00
(e)	State Bank of India	0.00	20000.00	0.00
	Total (2):	102255.00	105947.09	53092.00
	Total (A):	103633.00	106554.98	54155.50
B. LOAN ASSISTANCE/GRANTS OUTSIDE PLAN				
i)	PFC	5657.00	10407.34	2834.00
ii)	MNES Grants	0.00	687.50	116.00
	Total (B) :	5657.00	11094.84	2950.00
C. OTHER THAN PLAN SCHEMES				
(i)	Misc. Capital Receipts (Consumer contribution)	4000.00	4523.91	4500.00
(ii)	Grant/Assistance against APDRP, Project through IT(ADB) from State Govt.	1355.00	767.99	392.00
(iii)	R- APDRP Receipt from PFC	1351.00	460.00	10896.00
(iv)	Resource Gap.	-5625.00	0.00	0.00
(v)	Other Negotiated loan (NSLR etc.)	0.00	20.00	98514.00
(vi)	Grant of RGGVY	10800.00	5382.55	8491.50
(vii)	Schedule Caste Sub Plan (Financed by H.P. Govt.)	100.00	0.00	500.00
	Total (C): -	11981.00	11154.45	123293.50
	Grand Total:(A+B+C)	121271.00	128804.27	180399.00

* 2010-11 Figures are provisional

**STATEMENT OF CAPITAL EXPENDITURE FOR THE YEAR 2010-11 AND
BUDGET ESTIMATES FOR THE YEAR 2011-12**

(` .in Lac).

S.No.	Particulars	Revised Estimates 2010-11	Actual Expenditure 2010-11*	Budget Estimates 2011-12
A	GENERATION SCHEMES.			
	(i) Ghanvi-II Hydel Project	2198.00	1219.88	834.00
	(ii) Khauli-II Hydel Project	123.00	90.18	0.00
	(iii) Mini-Micro HEP (BAPH.)	613.00	840.41	100.00
	(iv) Completed projects	1365.00	1080.73	5030.00
	(v) R&M of Power Houses	845.00	491.71	483.00
	(vi) Survey & Investigation Schemes	1012.00	1153.07	1012.00
	Equity Portion of HPSEBL.			
	(i) Projects under BVPCL.			
	a) Uhl-III	1000.00	1308.20	1000.00
	(ii) Equity in projects being executed by HPPCL			
	a) Sainj	448.00	0.00	730.00
	b) Kashang-Integrated	1315.00	0.00	954.00
	c) Chirgaon Manjgaon	0.00	0.00	0.00
	d) Swara Kuddu	930.00	0.00	1933.00
	e) Shongtong	1307.00	0.00	1314.00
	f) Tidong	0.00	0.00	0.00
	g) New Projects	0.00	0.00	1069.00
	(iii) Equity in Himachal Pradesh Power Transmission Corp.	0.00	0.00	0.00
	Total Generation	11156.00	6184.18	14459.00
B	EHV Schemes under E/S(66KV & above)	16900.00	5442.54	30382.00
C	Distribution Schemes(33KV & below)	7048.00	2869.22	7048.00
D	Rural Electrification			
	(i) RE Own Plan.	2216.00	1863.23	234.00
	(ii) RE(Financed by REC)	0.00	0.00	0.00
	(ii) REC funded (Normal)	0.00	13.86	0.00
	(iv) System Improvement Schemes	0.00	108.53	0.00
	(v) RE (Own Plan)	0.00	0.00	2104.00
	(vi) RE(SCP)	0.00	43.08	0.00
	(vii) RE Schemes (BASP)	0.00	0.44	0.00
	(viii) Replacement of Wooden Poles	2551.00	1322.65	2930.00
	(ix) SI Schemes for the replacement of GI wire	93.00	30.32	37.00
	(x) Scheme for SOP to tube well	622.00	204.66	1600.00
	(xi) Board's Buildings	600.00	114.98	1070.00
	(xii) RGGVY Schemes	12000.00	9813.92	9435.00
	Total	18082.00	13515.67	17410.00
E	Special Grants/Loans.			
	(i) R-APDRP	149.00	0.00	1211.00
	(ii) ERP Projects	1355.000	195.12	392.00
	(iii) PMGY Schemes now TSP	178.00	13.29	120.00
	(iv) Scheduled Caste Sub Plan	100.00	330.53	500.00
	(v) IT Schemes (Fin. By HP Govt)	1000.00	0.00	1000.00
	(vi) MNES Grants for R&M	0.00	0.00	116.00
	Total:	2782.00	538.94	3339.00
F	INVESTMENT ON PROJECTS OUTSIDE PLAN			
	(i) Ghanvi-II Hydel Project	2840.00	1501.29	1029.00
	(ii) Khauli-II Hydel Project	0.00	0.00	420.00
	(iii) Mini Micro HEP (BAPH)	515.00	104.69	0.00

	(iv) Completed Project	170.00	0.00	259.00
	(v) R&M of Power Houses	2132.00	1288.13	1126.00
	(vi) R-APDRP	1351.00	121.02	10896.00
	Total:	7008.00	3015.13	13730.00
G	OTHER THAN PLAN SCHEMES			
	(i) Misc. Capital Expenditure	200.00	31.87	200.00
	(ii) Kutir Jyoti Scheme	0.00	-0.05	0.00
	(iii) Natural calamities	0.00	25.17	0.00
	Total:	200.00	56.99	200.00
H	REPAYMENTS			
	(i) Institutional Loans	52379.00	72259.20	93709.00
	To State Govt.			
	(ii) Repayment of Govt. loans(APDRP)	116.00	115.63	122.00
	(iii) Repayment of Govt. loan(ABBY)	5600.00	5600.00	0.00
	Total	58095.00	77974.83	93831.00
	Total (A to H)	121271.00	109597.50	180399.00

* 2010-11 Figures are provisional

**STATEMENT OF REVENUE INCOME/EXPENDITURE FOR THE YEAR 2010-11 AND
BUDGET ESTIMATES FOR THE YEAR 2011-12**

Sr. No. Particulars		Revised Estimates	Actual	Budget Estimates
		2010-11	2010-11*	2011-12
1	2	3	4	5
A	REVENUE INCOME:			
	(i) Revenue from sale of power	338405.40	333554.88	398255.00
	(ii) Misc. revenue from consumers	11000.00	11408.25	11500.00
	(iii) Revenue from Trading	180.00	124.85	182.00
	(iv) Revenue from interest on loan and investments	2000.00	2201.23	2200.00
	(v) Misc. receipts	4820.00	6543.44	5118.00
	(vi) Revenue Subsidies/grants	0.00	5.00	0.00
	(vii) Previous years income	0.00	0.00	0.00
	Total (A):	356405.40	353837.65	417255.00
B	REVENUE EXPENDITURE:			
	(i) Salaries and wages (Net).	106851.09	89913.65	119414.60
	(ii) Gen. Admn. Exp. (Net)	4193.11	5060.12	5329.60
	(iii) Operation & Maintenance (without the element of Estt. & G.A. Exps).	4644.00	4345.28	5000.00
	(iv) Cost of power purchase	220806.10	262195.11	243823.60
	(v) Other expenditure	0.00	263.64	0.00
	Total (B):	336494.30	361777.80	373567.80
	(vi) Gross Operating Surplus (A-B)	19911.10	-7940.15	43687.20
	(vii) Interest on Financial institutional loans	20289.50	6801.92	20601.00
	(viii) Interest on State Govt. loans (ISTL)	180.60	174.26	167.14
	(ix) Other Interest and Finance charges	9000.00	21067.08	9500.00
	(x) Total Interest & Finance Charges (7 to 9)	29470.10	28043.26	30268.14
	(xi) Interest capitalized	7700.00	10144.89	8000.00
	(xii) Net interest Charges (10 - 11)	21777.10	17898.37	22268.14
	13 Depreciation (Net)	11611.30	13357.55	12370.30
	(xiv) Total (12 + 13)	33381.40	31255.92	34638.44
	(xv) Net Operating Surplus (+)/Deficit (-) (6-14)	-13470.30	-39196.07	9048.76
	(xvi) Prior period exp.	0.00	11900.78	0.00
	Net Surplus (+)/deficit (-) after adjustment of prior period expenses (15 - 16)	-13470.30	-51096.85	9048.76

* 2010-11 Figures are provisional

**STATEMENT/PROVISION OF INTEREST PAID/DUE FOR THE YEAR 2010-11
AND BUDGET ESTIMATE FOR THE YEAR 2011-12**

(` in lacs).

Sr. No. Particulars	Revised Estimate 2010-11	Actual 2010-11*	Budget Estimate 2011-12
A INTEREST ON FINANCIAL INSTITUTIONAL LOANS.			
(i) Interest on loans from LIC	1870.00	1822.74	1700.00
(ii) Interest on loans from REC	3400.00	3191.23	4100.00
(iii) Interest on loans from Bonds	92.00	79.40	67.00
(iv) Interest on loans from PFC	4845.00	4559.12	4880.00
(v) Interest on loans from Co-Op. Banks.	1800.00	1298.45	1600.00
(vi) Interest on RGGVY Loans	254.00	252.29	400.00
(vii) Interest on Loans from H.P. Co-Op. Bank.	981.00	980.77	2655.00
(viii) Interest on Non-SLR Bonds loans	2370.00	2320.64	1740.00
(ix) Interest on loans from UCO Bank.	905.50	950.95	840.00
(x) Interest on loans from P.N. Bank.	0.00	0.00	0.00
(xi) Interest on loans from KCC Bank.	0.00	304.65	0.00
(xii) Interest on loan from Central Bank of India.	0.00	0.00	0.00
(xiii) Interest on other negotiated loans.	0.00	0.00	0.00
(xiv) Interest on Punjab and Sind Bank	50.00	49.86	0.00
(xv) Interest on Bank of Maharashtra	1330.00	1329.46	234.00
(xvi) Interest on State Bank of India.	1307.00	1517.94	2000.00
(xvii) Interest on Canara Bank	1085.00	1081.21	385.00
Total (A):	20289.50	19738.71	20601.00
B INTEREST ON GOVT. LOANS	180.60	174.26	167.14
C OTHER INTEREST & FINANCE CHARGES i/c OD	9000.00	8130.29	9500.00
TOTAL INTEREST AND FINANCE CHARGES (A+B+C)	29470.10	28043.26	30268.14

* 2010-11 Figures are provisional.

INDUSTRIAL RELATIONS AND WELFARE

9.1 GENERAL:

The total sanctioned strength of permanent and temporary employees of the HPSEBL as on 31.03.2011, was 25589. The category-wise details have been given in para 2.15 of Chapter 2 "Organization and Administration".

9.2 LABOUR WELFARE CUM INDUSTRIAL RELATION UNIT:

The main functions of this unit are to render advice on various labour problems and to maintain industrial harmony and cordial relations between the employees and management of HPSEBL. Under section 3 of the Industrial Dispute Act, 1947, the Board has constituted works committees at Divisional level; Liaison cum Grievances Committees at CEs/Circles & Head Office levels where equal representation has been given to the employees to settle all disputes/grievances of the staff amicably.

The relations of the Board and its employees remained cordial throughout the year.

9.3 UNIONS/ASSOCIATIONS:

During the period under report, 11 Unions/Associations, named as under, had been functioning in HPSEBL to watch the interest of the Board's Employees, represented by them.

DEMANDS/RESOLUTIONS:

Demands/Resolutions, received from various Unions/Associations are as under: -

Sr. No.	Name of Union/Association.	Demands Received	Demands settled.	Demands under consideration
(i)	HPSEBL Employees Union.	128	70	58
(ii)	HPSEBL JEs/AAs Association.	34	6	28
(iii)	Himachal Power Engineer's Association.	19	12	7
(iv)	HPSEBL Project Engineer's Association.	18	9	9
(v)	H.P.Diploma Engineer's Association.	4	3	1
(vi)	HPSEBL Engineer's Association.	4	-	4
(vii)	HPSEBL Stenographer's Association.	15	4	11
(viii)	HPSEBL Driver's & Auto worker's Association.	11	8	3
(ix)	HPSEBL D/Man Association.	7	-	7
(x)	HPSEBL Tech. Employees Union.	46	11	35
(xi)	HPSEBL Ministerial Services Association.	15	6	9

9.4 BENEVOLENT FUND SCHEME:

The benefits under this scheme are available to those employees who are members of this scheme by paying an annual subscription of ` 360/- @ ` 30/- per month. During the year under report, a sum of ` 96,22,170/- as annual subscription was received. All the employees in HPSEBL have been enrolled under the scheme. A sum of ` 1,88,65,000/- has been disbursed as financial assistance to 141 No. deceased persons and against other Natural Calamities.

9.5 HEALTH CARE FACILITIES IN HPSEBL:

A Dispensary is established in HPSEBL's headquarter at Vidyut Bhawan, where two Doctors, one Pharmacist, one Lab Technician and one Female Health Worker are working. A well equipped laboratory is also there wherein facilities of all blood tests, urine tests and ECG are available. Similar health care is being provided through well-equipped Dispensaries at Bassi, Bhaba and Giri Power Houses.

9.6 LIBRARY:

Himachal Pradesh State Electricity Board Limited Library has been functioning since Himachal Pradesh State Electricity Board came into existence. Presently, this library has twelve thousand and seven hundred books of various subjects such as Technical/Mechanical/Civil Engineering, General Rules and Regulations, Autobiographies/ Law and Acts books etc. Sitting arrangement has also been made to facilitate the readers to consult the reference books in the library. Long range and short range services are also provided to the readers as and when these are required.

Readers are kept in touch with the day to-day activities of Board, set of various newspapers, both in English and Hindi version and magazines in Hindi and English are being subscribed regularly to make them available for reading in the Library. In the present context of Information Technology and other Scientific Advancements the data related to Library has also been computerized.

Moreover to make head office library an ideal, instant efforts are being made to add latest reference books / project reports of projects to the library stock.

9.7 CANTEEN FACILITY:

A Canteen is also operational on no profit, no loss basis to meet the requirements of staff, posted at Vidyut Bhawan as well as others who visit this place during working hours. Lunch is also served here in addition to tea, sweets, snacks etc. On demand, lunch for official meetings is also served.

9.8 ACCIDENTS:

During the year 2010-11, a sum of `27,40,242/- has been paid on account of fatal / non-fatal accidents under Workman's Compensation Act.

9.9 BENEFITS TO THE EMPLOYEES:

Decisions, involving financial benefit by way of Enhancement in allowances including D.A. etc. & facilities, provided by way of adopting H.P. Govt. instructions:-

- (i) Release of pay scale to Work charged employees of HPSEBL including Drivers (W/C) with effect from 1.1.2006 vide office order No. 4 dated 19.6.2010 & Office Order No.7 dated 30.10.2010
- (ii) Extended the Fitment Table No.20 up to stage of 21600 in the pay scale of Rs. 15350-21600 (Pre-revised) to the category of Diploma Holder Engineers & similar categories in the 2nd TBPS w.e.f. 1.1.2006 vide Office Order No.1 dated 28.2.2011
- (iii) Grant of Grade pay of Rs.10,000 to Special Secretary (Law) and Director (Per./ IR) w.e.f. 1.1.2006 vide Office Order No.2 dated 26.2.2011 and Office Order No.4 dated 18.3.2011.
- (iv) Grant of initial start of Rs.18030 in place of Rs.16650 to the categories of AE/ AEE/ AO w.e.f. 1.1.2006 vide Office Order No.5 dated 29.3.2011.
- (v) The amendment in column No.10 & 11 of the R&P Regulations for the J.E (Elect.) Notified vide Notification No. HPSEBL (SECTT.)R&E/ 106-10/2006-93342-562 dated 13.12.2006 and amended from time to time has been issued.
- (vi) The amendment in column No. II of the R&P Regulations for the post of Silt Analyst notified vide Notification No. HPSEBL (SECTT.)106-14/77-38229-331 dated 27.5.1977 further amended vide Notification No. of even file No.14014-214 dated 7.5.2003 and as amended from time to time have been issued.
- (vii) The amendments in column No. II of the R & P Regulations for the post of Assistant Engineer (Civil/ Mech.)Notified vide Notification No. HPSEB (SECTT) R&E/106-10/2006-72179-379 dated 23.10.2006 amended further vide Notification No. HPSEB (SECTT.)R&E/106-1/2009-78323-503 dated 16.11.2009 and as amended from time to time, have been issued.
- (viii) Amendment in column No. II (i) of the R&P Regulations to the post of Sr. Executive Engineer (Civil/ Mech.)/ Elect. Class-I Gazetted Notified vide No. HPSEBL (SECTT.)/106-9/75-29316-415 dated 7.6.1975 and further amended vide Notification No. HPSEB L(SECTT.)/R&E/106-09/2008-58982-59202 dated

19.9.2008 and even file No.60584-60784 dated 21.8.2008 and as amended from time to time has been issued.

- (ix) The ex-post -facto approval has been accorded for relaxation in the educational qualification and age in respect of class-IV (Tech. / Non-Tech) staff, appointed and subsequently regularized under Employees Assistance Scheme or any other scheme by HPSEBL, for the purpose of regularization.
- (x) Notification for amendment of Rule-II of the CCS(CCA) Rules, 1965 received from Govt. of H.P. Vide No. Per.(AP-II) A(3) -1/79-III dated 11.5.2010 has been adopted in the HPSEBL.
- (xi) Order with regard to counting of stay for the purpose of transfer of JEs/ AAEs from Sub-Division office instead of Division office has been issued.
- (xii) Notification regarding amendments in Column No. II (i) of the R&P Regulations to the post of Superintending Engineer (C/M) & (Elect.) Notified vide Notification No. HPSEB (SECTT.)106-1/73-48920-49010 dated 10.12.1973 and further amended vide Notification No. HPSEBL (SECTT.)R&E/106-9/2009-10-179632-832 dated 20.2.2010 and as amended from time to time has been issued.
- (xiii) Payment of arrear to Pre-2006 pensioners/ family pensioners on account of revision of pension/ family pension w.e.f. 1.1.2006.
- (xiv) Payment of arrear to Past 2006 retirees on accounts of pension/ family pension/ gratuity and leave encashment.
- (xv) Revision of pension of pensioners/ family pensioners. Grant of full pension to Government servants who retired on or after 1.1.2006.
- (xvi) To extend the contract period of 177 disabled persons appointed/ joined against 3 % quota meant for disabled persons recruited in pursuance of orders of Hon'ble High Court in CWP- 192/4 Ankush Dass Sood V/S State of Himachal Pradesh and others for another one year from the date of expiry of their respective previous contract.
- (xvii) Dearness allowances payable to the employees of the HPSEBL has been enhanced from existing rate 27% w.e.f. 1st January 2010.
- (xviii) Dearness allowance payable to the pensioners & Family pensioners of HPSEBL enhanced to 35% w.e.f. 1st January 2010.
- (xix) Grant of Dearness Allowance to the employees of the HPSEBL, w.e.f. 1.7.2010.

9.10 GENERAL PROVIDENT FUND:

During the year 2010-11 a sum of ` 260,62,55,926/- including interest accrued, has been contributed/ credited against GPF contribution. On the contribution made an interest @ 8% has been allowed to the subscribers in accordance with the rates as applicable to employees of H.P. Government. A sum of ` 187,64,88,777/- has been released as final payments, non refundable and temporary advance from the fund , out of which, a sum of ` 51,53,18,500/-has been released to 1913 No. retirees.

9.11 DEPOSIT LINKED INSURANCE:

This scheme is applicable to those deceased employees who had put in 5 years of minimum service. 161 cases were settled under this scheme and a sum of ` 49,77,562/- was paid on this account to the legal heirs of the deceased employees during the year under report.

9.12 CONTRIBUTORY PENSION SCHEME:

During the year 2010-11 a sum of ` 2,10,52,674/- including interest @ 8% on investment has been contributed / credited towards CPS 57.180 and equivalent amount has been contributed as employer share in the fund.

9.13 PENSIONARY BENEFITS:

In accordance with the CCS pension Rules, 1972, all the employees (Regular as well as Work Charged), except those who are the subscribers to CPF, are entitled to avail this facility. During the year 2010-11 the following cases were settled:-

Sr.No.	Description	No. of cases settled
(i)	P.P. O Issued	1087 Cases
(ii)	DCRG /GPO issued	3414 -do-
(iii)	CPO issued	2694 -do-
(iv)	Revision 01.01.2006	1719 -do-
(v)	Restoration	18 -do-
(vi)	PPO transferred to Banks.	19 -do-
(vii)	Consolidation 1.1.2006.	2573 -do-
(viii)	Leave Salary /Pension Contribution Bills, raised to outside Organization.	819 -do- (` 4.98 Cr.)

9.14 COMPUTERISATION/MEASURES TAKEN TO IMPROVE OPERATIONAL EFFICIENCY:

In order to improve the operational efficiency through Computerization, following steps have been taken to computerize the working of Finance and Accounts Wing:-

- i) The Annual Budget and monthly expenditure statement have been computerized.
- ii) Software has been developed for monthly pay roll for Gazetted Employees, stationed at Head Quarter Shimla, pay-in-slips, Bank-wise salary statements of Gazette Employees at head-quarter. Their income tax schedule, G.I.S. schedule etc. are being generated through the package. Interest bearing advances schedules in respect of these officers are also likely to be prepared in the near future. The package for issuing of pay-in-slips of field staff (Gazetted Employees) is also under scrutiny/process and would be implemented in near future.
- iii) Efforts are being made to adopt & implement software, developed by NIC for computerization of pension disbursement system in the Board. In addition, proposal to fully computerization working of Finance & Accounts Wing is under due consideration of the Board.
- iv) Separate collection counters have been opened in Industrial Centers to facilitate bill collection.
- v) Improvements have been made in certain areas of commercial accounting as per recommendation of M/S A.F. Ferguson's, for implementation.
- vi) The Call Centre at Shimla has been set up as a pilot project to facilitate the consumers for immediate redressal of their grievances/complaints.

9.15 Measures taken in working out Annual Accounts in three Separate Activities:

In order to comply with the requirement of Electricity Supply Act, 2003, accounts of Generation, Transmission and Distribution activities are required separately. Steps taken in this behalf for segregation of the Annual Accounts are as under:-

- (i) Segregation of value of fixed assets is available for Generation, Transmission and Distribution in totality.
- (ii) The year wise separate main/master ledgers for the three activities are being maintained since 2003-2004.
- (iii) The segregated Balance Sheet for FY 2009-10 into 6 profit centre i.e. Distribution, Transmission, Generation, Project, SLDC and Head Office as separate unit has been prepared and segregated. Balance Sheet for FY 2010-11 of above profit centres are being prepared.

TARIFF FOR 2010-11

The schedule of tariff for the supply of electricity to various categories of consumers in Himachal Pradesh as notified by the HPSEBL vide notification No. HPSEB/CE(Comm.)/SERC-6/2010-11-6583-6882 dated 22nd July, 2010 is in force in Himachal Pradesh w.e.f. 1.4.2010 and the same remained in force for the year 2010-11 as under:-

Sr. No.	Category	Tariff w.e.f. 1.4.2010	
10.1	DOMESTIC SUPPLY:		
	A Energy charges:	As per HPSERC rates	After GoHP subsidy
	(i) Below Poverty Line (BPL) Consumers:		
	Up to 50 KWh / month	` 1.80/KWh	` 0.70/ KWh
	(ii) Others:		
	(a) 0-150 KWh / month	` 2.20/KWh	` 1.00/ KWh
	(b) 150-300 KWh/month	` 3.45/KWh	` 2.00/KWh
	(c) Above 300 KWh/month	` 3.45/KWh	` 2.75/KWh
	(iii) Pre-paid meters	` 2.20/KWh	` 1.00/ KWh
	B Consumer Service Charges:		
	(i) Below Poverty Line (BPL) Consumers:	Nil	Nil
	(ii) Others:		
	(a) Consumption up to 50 KWh	` 25/month/consumer	` 20/month/consumer
	(b) Consumption above 50 KWh	` 25/month/ consumer	` 25/month/ consumer
10.2	NON DOMESTIC NON COMMERCIAL:		
	A Single Part Tariff: (up to 20KW):		
	Consumer Service Charges (Part-1)	` 60/month/consumer	
	Energy Charges (Part-2):	` 4.45 /KWh	
	B Equivalent Two part tariff (above 20KW):		
	Consumer Service charges (Part-1)	` 120/month/consumer	
	Energy charges (Part -2)	` 3.70/KVAh	
	Demand Charges (Part-3)	` 1.00/KVA/month	
10.3	COMMERCIAL SUPPLY:		
	Single part Tariff (up to 20KW):		
	Consumer Service Charges (Part-1)	` 60/month/consumer	
	Energy Charges (Part -2)	` 4.60 /KWh	
	Equivalent Two part tariff (Above 20 -100KW):		
	Consumer Service Charges (Part-1)	` 120/month/consumer	
	Energy Charges (Part-2)	` 3.95/KVAh	
	Demand Charges (Part- 3)	` 75/KVAh/month	
	Above 100 KW		
	Consumer Service Charges (Part -1)	` 240/month/consumer	
	Energy Charges (Part - 2)	` 3.75/KVAh	
	Demand Charges (Part - 3)	` 100/KVA/month	
10.4	SMALL AND MEDIUM INDUSTRIAL POWER SUPPLY [Up to 100KW]:		
	Single Part Tariff (up to 20KW):		
	Consumer Service Charges (Part-1) 0-20 KW	` 60/ month/consumer	
	Energy Charges (Part-2)	` 3.70/KWh.	
	Two Part Tariff (above 20 – 100KW):		
	Consumer Service Charges (Part-1)	` 120/ month/consumer	
	Energy Charges (Part-2)	` 3.05/KVAh.	
	Demand Charges (Part -3)	` 50/KVA/month	

	Peak load exemption Charges (PLEC)	
	Peak load exemption charges(Energy charges)	˘ 6.10/KVAh
	Addl. Demand Charges	˘ 50/KVA/month
	Peak load violation charges (PLVC)	
	Peak load violation charges (Energy Charges)	˘ 9.15/KVAh
	Addl. Demand Charges	˘ 300/KVA/month
10.5	LARGE INDUSTRIAL POWER SUPPLY (LS):	
	Consumer Service Charges (Part -1)	
	EHT	˘ 350/month/consumer
	HT	˘ 250/month/consumer
	Energy Charges (Part- 2)	
	EHT	
	1. Upto 300 KVAh/KVA of the contract demand	˘ 2.60/ KVAh
	2. Remaining energy during the month	˘ 2.80 /KVAh
	HT	
	1. Upto 300 kVAh/kVA of the contract demand	˘ 2.80/ KVAh
	2. Remaining energy during the month	˘ 3.00 /KVAh
	Demand Charges (Part-3)	
	EHT	˘ 185/KVA/month
	HT	˘ 225/KVA/month
	Peak Load Exemption Charges (PLEC)	
	Addl. Demand charges on exempted load	
	EHT	˘ 50/KVA/month
	HT	˘ 50/KVA/month
	Energy charges	
	EHT	˘ 5.20/KVAh
	HT	˘ 5.60/KVAh`
	Peak Load Violation Charges (PLVC)	
	Energy charges	
	EHT	˘ 7.80/KVAh
	HT	˘ 8.40/KVAh
	PLVC Demand Charges (charges – 3)	
	EHT	˘ 300/KVA/month
	HT	˘ 300/KVA/month
10.6.	WATER & IRRIGATION PUMPING SUPPLY (WIPS)	
	Single part tariff (upto20 KW)	
	Consumer Service Charges (Part-1) 0-20 KW\	˘ 25/month
	Energy charges (part-2)	˘ 1.85/KVAh
	Two part tariff (above 20 KW)	
	Consumer Service Charges (Part-1)	
	LT	˘ 120/month/consumer
	HT	˘ 120/month/ consumer
	EHT	˘ 120/month/ consumer
	Energy Charges (Part-2)	
	LT	˘ 3.20/KVAh
	HT	˘ 3.65/KVAh
	EHT	˘ 3.10/ KVAh
	Demand Charges (Part -3)	
	LT	˘ 50/KVA/month
	HT	˘ 150/KVA/month
	EHT	˘ 120/KVA/month
	Peak Load Exemption Charges :	
	LT	˘ 6.40/KVAh
	HT	˘ 7.30 /KVAh
	EHT	˘ 6.20/KVAh

PLE Addl. Demand Charges	
LT	˘ 50/KVAh/month
HT	˘ 50/KVAh/month
EHT	˘ 50/KVAh/month

Peak load violation charges (PLVC)	
LT	˘ 9.60/KVAh
HT	˘ 10.95/KVAh
EHT	˘ 9.30/KVAh

PLVC Demand Charges:	
LT	˘ 300/KVA/month
HT	˘ 300/KVA/month
EHT	˘ 300/KVA/month

10.7 STREET LIGHT SUPPLY (SLS):	
Consumer Service Charges (Part -1)	˘ 60/month/consumer
Energy Charges (Part- 2) all consumption	˘ 4.00/KWh plus line Mtc. and lamp renewal charges.

10.8 BULK SUPPLY:	
Consumer Service Charges (Part-1)	
LT	˘ 120/month/consumer
HT	˘ 120/month/consumer
EHT	˘ 120/month/consumer
Energy Charges (Part-2)	
LT	˘ 4.05/KVAh
HT	˘ 3.15/KVAh
EHT	˘ 3.05/KVAh
Demand Charges (Part- 3)	
LT	˘ 200/KVA/month
HT	˘ 150/KVA/month
EHT	˘ 140/KVA/Month

10.9 Temporary Metered Supply:	
Single part Tariff (Up to 20KW):	
Consumer Service Charges (Part - 1)0-20 KW	˘ 120/month/consumer
Energy charges (Part -2)	˘ 6.50/KWh

Two Part Tariff (Above 20-100 KW):	
Consumer Service Charges (Part - 1)	˘ 120/month/consumer
Energy Charges (Part - 2)	˘ 4.95/KVAh
Demand Charges (Part - 3)	˘ 300/KVA/month

SOME IMPORTANT PROVISIONS OF PART - I “GENERAL” OF THE SCHEDULE OF TARIFF:

❖ **Late Payment Surcharge (LPS):**
 Surcharge for late payment shall be levied at the rate of 1% per month or part thereof on the outstanding amount, excluding electricity duty/taxes, for all consumer categories.

❖ **Standard Supply Voltages:**

Connected Load [KW]	Standard Supply Voltage [AC 50Hz]
<= 50KW	(1 Ø 0.23KV or 3 Ø 0.415KV) or 2.2KV
51KW up to 2000KW	11KV or 15KV or 22KV
2001 KW up to 10000KW	33KV or 66KV
> 10000KW	>= 132KV

❖ **Lower Voltage Supply Surcharge [LVSS]:**

Standard Supply Voltage	Actual Aailed Supply Voltage	LVSS
11KV or 15KV or 22KV	(1 Ø, 0.23KV or 3 Ø, 0.415KV) or 2.2KV	5%
33KV or 66KV	11KV or 15KV or 22KV	3%
>= 132KV	33 KV or 66KV	2%

❖ **Higher Voltage Supply Rebate [HVSr]:**

Standard Supply Voltage	Actual Availed Supply Voltage	HVSr
1Ø, 0.23KV or 3- Ø, 0.415KV or 2.2KV	11KV or 15KV or 22KV	5%
11KV or 15KV or 22KV	33 KV or 66KV	3%
33KV or 66KV	>= 132KV	2%

❖ **Peak Load Exemption Charges (PLEC):**

Electricity Supply shall, normally, not be available to the consumers, covered under the categories, "Agricultural and Allied Activities Supply Pumping" (AAAS), "Small and Medium Industrial Power Supply (SMS)", "Large Industrial Power Supply (LIS) and Water Irrigation Pumping Supply" (WIPS), of this schedule of tariff, during the peak load hours of the day. The duration of peak load hours in summers and winters shall be as under: -

- (a) Summer (April to October) 19.00 hours to 22.00 hours.
- (b) Winter (November to March) 18.30 hours to 21.30 hours.

However, where the above categories of consumers want to avail of exemption to run their unit during the peak load hours for any special reason, a separate sanction for the exemption for running the unit (full load or part thereof), shall be issued at the request of the consumer and shall be subject to availability of power in the area during the above specified peak hours.

Consumers, requesting for peak load exemption (PLE), must get tri-vector or suitable meter installed, which are capable of recording the maximum demand for every 30 minute block in twenty four (24) hours of the day for a whole month, apart from recording the energy consumption. However, any consumer, possessing sanction for peak load exemption (for full load or part thereof) and without an installed tri-vector meter or a suitable meter, would also need to get the meter installed, within three months of issue of this notification.

Where sanction for running of unit (for full load or part thereof) during peak load hours is already issued, no further sanction shall be required to the extent of the load for which the exemption has already been obtained. All consumers who have been given exemption to run their units (for full load or part thereof) during the peak load hours, shall be charged a "Peak Load Exemption Charge", as separate energy charges (In KVAh/month or KWh/month as per Two Part or Single Part Tariff, applicable, respectively), for the energy consumption during peak load hours in a month, at the rate specified in the relevant category of this schedule of tariff.

❖ **Peak Load Violation Charges (PLVC):**

Consumers who do not have the peak load exemption but are found using the electricity during peak hours or consumers who have the exemption but are found exceeding the exempted load during the peak load hours, will have to pay "Peak Load Violation Charge" on the total consumption during the peak hours or consumers who have the exemption but are found exceeding the exempted load during peak load hours will have to pay "Peak Load Violation Charges" on the quantum of load in excess of exempted load as specified under the relevant schedule of tariff. Consumer who have the exemption but are found exceeding the exempted load shall be deemed to have used energy, calculated prorate on the basis of load in excess of the exempted load, for the day of violation only.

Violation in excess of five times in a year, shall result in disconnection of the defaulting consumer, without prejudice to recover such charges. No Higher Voltage Supply Rebate (HVSr) shall be applicable/ available on the quantum of energy, consumed under this violation.

In case, consumers covered under single part tariff, without an installed meter, capable of recording energy during different times of the day, are found violating the peak load hour restrictions, one half of the consumption for the month shall be billed at the specified PLVC rate which shall be three times the normal energy charges (Rs./kWh).

❖ **Demand Charge (DC):**

Consumers, billed on the basis of KVAh tariff as applicable for the relevant category under this Schedule of Tariff, shall also be charged at the rate specified, in addition to the KVAh charges per month, the "Maximum Demand Charges" per month per KVA, calculated on the [Maximum Demand (in KVA) recorded on the energy meter during any consecutive 30 minute block period of the month] OR [90% of the Contract Demand (in KVA) or {in the absence of contract demand }80% of the Connected Load (computed in KVA assuming 0.9 power factor) whichever is higher.

❖ **Contract Demand Violation Charge (CDVC):**

In the event of the Maximum Demand (in KVA), recorded on the energy meter during any consecutive 30 minute block period of the month, exceeding the Contract Demand (in KVA) OR 80% of the connected Load (computed in KVA, assuming 0.9 power factor) in the absence of the Contract Demand, the consumer shall be charged 'Contract Demand Violation Charges' at the rate of ` 300/- per month per KVA to the extent the violation has occurred in excess of the Contract Demand OR in the absence of the Contract Demand, 80% of the Connected Load (computed in KVA, assuming 0.9 power factor).

Disturbing Load Penalty (DLP):

In case where there is unauthorized use of mobile welding sets, the consumer will pay by way of penalty, ` .20/- per KVA of the load rating of welding set per day, in addition to the energy charges.

Note:- Authorization shall mean authorization (temporary or permanent) to a consumer by a designated office of the licensee/HPSEBL in whose area supply to the consumer exists and shall not be assumed as authorization of any form from local or other bodies.

❖ **Night Time Concession (NTC):**

Night Time Concession on consumption of energy from 0.00 hours to 06.00 hours and shall be applicable to consumers with connected load greater than 20 KW, at the rate, specified in the relevant consumer category under this Schedule of Tariff. However such consumers shall have to install suitable meters, capable of recording energy during different times of the day.

❖ **Power Factor Surcharge (PFS):**

- i) If at any point of time, the power factor of consumers, specified under the relevant category of schedule of charges, having connected load upto and including 20 KW, is checked by any means and found to be below 0.90 lagging, a surcharge @ 10% on the amount of energy charges, irrespective of voltage of supply, shall be charged from the consumer from the month of checking and will continue to be billed till such time, the consumer has improved his power factor to at least 0.90 lagging by suitable means, under intimation to the concerned Sub-Divisional Officer who shall immediately get it checked.
- ii) Should the monthly power factor fall below 0.85, it must be brought up to minimum of 0.90 by the consumer through suitable means, within a period of 3 months, failing which, without prejudice to right to collect surcharge, the connection shall be disconnected.
- iii) The monthly average power factor will be calculated on readings of Tri-Vector Meter/ Bi-Vector Meter/Two Part Tariff Meters as per formula given below and shall be rounded upto two decimal places.

$$\text{POWER FACTOR} = \text{KWh} / \text{KVAh.}$$

In case of defective tri-vector meter/ bi-vector meter/two part tariff meter, power factor will be assessed on the basis of average power factor, recorded during last three consecutive months when the meter was in order. In case, no such readings are available then the monthly average power factor of three months, obtained after installation of correct tri-vector meter / bi-vector meter/two part tariff meter, shall be taken for the purpose of power factor surcharge during the period, the tri-vector meter/bi-vector meter/two part tariff meter remained defective.

- iv) The said power factor surcharge shall be independent of the supply voltage.
- v) The consumer service charge, demand charge or any other fixed charge shall not be taken into account for working out the amount of power factor surcharge, which shall be levied on the amount of KWh energy charges only.
- vi) No new supply to L.T. installations with induction motor(s) of capacity above 3 H.P. and/ or welding transformers above 2.0 KVA, shall be given unless shunt capacitors of appropriate ratings are installed to the entire satisfaction of the HPSEBL.

TABLES AS ON 31.3.2011

TABLE-1
GENERATING STATIONS AND INSTALLED CAPACITY

Sr. No.	Name of Generating Station.	Number of units.	Year of installation.	Installed capacity, each unit(KW)	Aggregate installed capacity (KW)	Generating voltage (Volts)
(i) HYDRO GENERATING STATIONS:						
1	SVP Bhaba.	3	1989	40000	120000	11000
2	Larji.	3	2006-07	42000	126000	11000
3	Bassi.	4	1970 and 81	15000	60000	11000
4	Giri.	2	1978	30000	60000	11000
5	Ghanvi.	2	2000	11250	22500	11000
6	Andhra.	3	1987	5650	16950	11000
7	Baner.	3	1996	4000	12000	6,600
8	Khauri.	2	2007	6000	12000	6600
9	Gaj.	3	1996	3500	10500	6600
10	Binwa.	2	1984	3000	6000	6600
11	Thirot.	3	1995-96	1500	4500	11000
12	Gumma.	2	2000	1500	3000	6600
13	Nogli.	2	1963	250	2500	410
		4	1969-70 & 74	500		
14	Rongtong.	2	1986	500	2000	415
		2	1987	500		
15	Sal-II.	2	2000	1000	2000	11000
16	Chaba.	3	1912	250	1750	2200
		2	1919	500		
17	Rukti.	4	1979& 80	375	1500	415
18	Chamba.	2	1908	100	450	420
		1	1985	250		
19	Killar.	3	1995-1996	100	300	415
20	Holi..	2	2004	1500	3000	3300
	Total (i)				466950	
(ii) DIESEL GENERATING STATIONS:						
1	Keylong		1987		133	
	G.Total (i+ii)				467083	

TABLE-2
PRIME MOVERS WATER TURBINES

Sr. No	Name of Generating Station	Effective head meters, Rating in KW)	Capacity as per name plate installed.	Number of machines (KW)	Total Capacity	Rated speed (RPM)
HYDROGENERATING STATIONS:						
1	SVP Bhaba.	887.20	40000	3	120000	500
2	Larji.	56.84	42000	3	126000	166.67
3	Bassi.	236.50	15000	4	60000	500
4	Giri.	169.00	31500	2	63000	428.6
5	Ghanvi.	375.00	11250	2	22500	600
6	Andhra.	311.25	5650	3	16950	500
7	Baner.	341.00	4000	3	12000	750
8	Khauri.	475.73	6000	2	12000	750
9	Gaj.	212.90	3646	3	10938	600
10	Binwa.	225.00	3000	2	6000	500
11	Thirot.	245.00	1500	3	4500	750
12	Gumma.	157.00	1500	2	3000	1500
13	Nogli.	70.00	250	2	500	1000
			500	4	2000	1000
14	Rongtong.	79.00	559.5	4	2238	1000
15	Sal-II.	30.00	1058	2	2116	600
16	Chaba.	164.59	250	3	750	500
			500	2	1000	500
17	Rukti.	79.25	425.22	4	1701	1000
18	Chamba.	16.46	100	2	200	1000
			250	1	250	1000
19	Killar.	36.00	100	3	300	1000
20	Holi.	169.00	1500	2	3000	1000

TABLE-3.
STATION WISE GENERATION TARGETS/ACHIEVEMENTS (MU)

Sr.No.	Name of Generation station.	Installed Capacity (KW)	Generation Targets (MU)	Generation (MU)
(I)	HYDRO GENERATING STATIONS.			
1	SVP Bhaba.	120000	580.000	646.310
2	Larji.	126000	575.000	666.390
3	Bassi.	60000	250.000	191.890
4	Giri.	60000	170.000	233.500
5	Ghanvi.	22500	77.000	60.340
6	Andhra.	16950	66.000	55.750
7	Baner.	12000	40.000	41.780
8	Khauli.	12000	43.000	41.740
9	Gaj.	10,500	41.000	35.650
10	Binwa.	6,000	30.000	30.020
11	Thirot.	4500	9.000	9.150
12	Gumma.	3000	10.000	0.000
13	Holi.	3000	12.080	9.280
14	Nogli.	2500	8.600	7.730
15	Rongtong.	2000	2.400	1.270
16	Sal-II.	2000	4.210	3.780
17	Chaba.	1750		
18	Rukti.	1500		
19	Chamba.	450	8.430	10.690
20	Killar.	300		
	Sub-total(I)	466950	1926.720	2045.260
(II)	DIESEL GENERATING STATIONS:			
1	Keylong.	133	-	-
	Total(I+II)	467083	1926.720	2045.260

TABLE-4.
MAXIMUM DEMAND ON GENERATING STATION(KW)

Sr.No.	Name of Station	Max.Demand (KW) Year 2010-11
1	SVP Bhaba.	120000
2	Larji.	138000
3	Giri.	60000
4	Bassi.	48000
5	Ghanvi.	22800
6	Andhra.	16950
7	Khauli.	12000
8	Baner.	12000
9	Gaj.	10500
10	Binwa.	6000
11	Holi.	2700
12	Gumma.	-
13	Nogli.	1940
14	Chaba.	1750
15	Sal-II.	1150
16	Thirot.	1500
17	Rongtong.	760
18	Rukti.	250
19	Killar.	200
20	Chamba.	100

TABLE-5.
ENERGY GENERATED, PURCHASED AND SOLD (MU).

Sr.No.	Particulars	2008-09	2009-10	2010-11
1	Generation in million KWH:			
	a. Hydel.	2075.138	1804.14	2045.26
	b..Diesel.	0.000	0.00	0.00
	Total(1)	2075.138	1804.14	2045.26
2	a. Auxiliary consumption in million KWH.	6.069	5.59	10.25
	b. Less H.P.Govt.,Free Power Share in Ghanvi, Baner,Gaj,Larji & Khauli.	102.064	92.65	101.29
3	Net energy Generated(1-2(a+b))	1967.005	1705.90	1933.72
4	Energy purchased(source-wise)from:-			
I	BBMB.	167.430	146.61	169.00
II	Dehar.	78.840	78.84	79.00
III	PSEB.			
	a.Shanan share(at gen. Cost).	50.260	50.26	50.26
	b. Shanan share(free power).	2.630	2.63	3.00
	c.Banking.	88.690	259.59	202.00
	d.Thein share.	65.990	47.12	75.59
	e.Purchase at cost.	0.090	0.04	0.00
IV	UPSEB/Uttarchal SEB:			
	a) UJVNL(Yamuna Share) Stage-I,II&III , Kulhal	419.850	300.48	401.00
	b.UPJVNL(YamunaShare)Khara.	68.200	50.26	65.00
V	NHPC:			
	Bairasuil (12% Free Power).	15.030	23.43	43.00
	a.Chamera-I:			
	12% Free power.	71.590	86.08	139.00
	At cost.	62.090	58.66	70.00
	Chamera-II:			
	12% Free power.	47.460	163.76	64.00
	At cost.	53.750	56.09	51.00
	b. Salal-HPS.	29.730	29.93	32.09
	c. Uri-HPS.	81.380	72.55	82.03
	d. Tanakpur-HPS	13.920	15.99	14.00
	e Dhauli Ganga.	41.390	43.67	40.00
	f. Tehri Stage-I.	97.340	71.29	87.00
	g. Dulhasti.	6.000	9.71	0.00
VI	NTPC:			
	a. Rihand-I STPS.	310.140	339.41	238.00
	b. Rihand –II STPS.	316.230	306.59	245.00
	c. Unchahar- I TPS.	56.830	62.65	50.00
	d. Unchahar- II TPS.	111.140	115.69	86.00
	e. Unchahar- III TPS.	67.770	78.82	54.00
	f. Anta GPP.	89.320	75.55	74.08
	g. Auriya GPP.	119.690	143.78	115.18
	h. Dadri Gas GPP.	141.970	145.98	132.67
	i. Dadri TPS.			
	j. Singrauli STPS.	79.880	113.73	0.00
	k .Western Grid.			
	l. Naroa APS.	20.280	24.66	51.00
	m.Kahalgaon	49.490	96.53	134.02
	n. RAPP-5	0.000	13.19	85.00
VII	Private Sector:			
	a. Malana			
	Free power.	53.380	45.39	49.43
	b. Baspa.			

Sr.No.	Particulars	2008-09	2009-10	2010-11
	Free power.	154.290	155.32	176.13
	At cost.	1131.460	1139.03	1292.00
	c. Patikari			
	Free power.	8.450	4.28	8.00
	At cost.	62.000	31.41	61.00
	d. Sarbari			
	Free power.	0.000	0.00	2.00
	At cost.	0.000	0.00	15.00
	e. Toss			
	Free power.	0.000	0.00	54.00
	At cost.	0.000	0.00	10.00
	f. ADHPL			
	Free power.	0.000	0.00	24.00
	At cost.	0.000	0.00	9.00
	g. Mini Micros.	270.843	392.06	479.00
VIII	Joint Sector:			
	Nathpa Jhakri.			
	Against Free Power.	184.410	259.41	303.20
	Against Equity.	372.470	389.78	554.15
	Against State of the region.	171.360	186.72	176.00
IX	Other Purchase:			
	a) HVPNL/HPGCL Bkg.	105.190	78.32	365.00
	b) BYPL Bkg. (Seller Bus)	154.410	38.13	0.00
	c) BYPL Contra Bkg.(Seller Bus)	-	37.78	0.00
	d) BRPL Bkg.(Seller B us)	84.990	66.65	1.52
	e) BRPL Contra Bkg(Seller Bus)	27.690	70.16	0.00
	f) PSEB Contra Bkg.(Seller Bus)	204.410	181.44	143.70
	g) HPGCL Contra Bkg (Seller Bus)	59.520	77.28	0.00
	h) GO HP Share in HPSEB Projects:-			
	Ghanvi.	9.799	8.43	7.20
	Baner.	4.643	3.83	5.00
	Gaj.	4.689	4.30	4.27
	Larji.	77.993	72.09	79.82
	Khauli.	4.940	4.00	4.99
	i) UPPCL - Banking.	-	-	-
	j) UPPCL - Contra Banking.	0.000	0.00	160.00
	k) Under UI.	76.160	286.99	356.00
	l) Market Purchase	-	-	-
	m) Un-allocated	0.000	0.00	377.00
	Total:-4 (a)	6047.497	6616.370	7649.330
b)	Losses on Purchase:			
	External losses @ 3.5 %	-	-	268.00
c)	Net purchase:	6047.497	6616.370	7381.330
5	Total purchase without wheeling	6047.497	6616.370	7381.330
6	Total Power available for sale(i/c wheeling) 3+5.	8014.502	8322.27	9315.05
7	Power sold in million KWH (i/c wheeling):			
	a)Within State.	5460.507	5814.33	6641.59
	b)Outside the state.	1498.21	1284.02	1704.61
8	Total energy Sold	6958.717	7098.350	8346.200
9	Transmission and distribution losses:			
	a)In million KWh(7-10).	1055.785	1223.92	968.85
	b)%age losses.	13.173	14.71	12.73

TABLE -6
MAXIMUM DEMAND ON GENERATING STATIONS(MW) AND RECEIVING STATIONS /FEEDERS(MVA).

Sr. No.	GENERATING STATIONS/ FEEDERS.	Max.Demand Year 2010-11	Sr. No.	GENERATING STATIONS/ FEEDERS.	Max.Demand Year 2010-11
A. GENERATING STATIONS:					
1	Larji.	138.000	15	220/132KV S/Stn.Kangoo	
2	Bhaba.	120.000		i)220/132KV,1x80/100(3x26.67.33) MVA	65.00
3	Bassi.	48.000	16	132KV S/Stn.Barotiwala,	
4	Giri.	60.000		i)132/66KV,3x25/31.5 MVA	56.60
5	Ghanvi.	22.800		ii) 132/11KV,1x16+2x25/31.5+1x16/20 MVA	73.60
6	Andhra.	16.950	17	132KV S/Stn.Paonta	
7	Baner.	12.000		i)132/33KV,2x25/31.5 MVA	31.56
8	Khauli.	12.000		ii)132/33KV,1x25/31.5 MVA	16.63
9	Gaj.	10.500	18	132KV S/Stn. Kala-Amb	
10	Binwa.	6.000		i)132/33KV,2x25/31.5 MVA	57.20
11	Thirot.	1.500		ii)132/11KV,1x25/31.5 MVA	19.22
12	Gumma.	-	19	66KV S/Stn.Nalagarh	
13	Holi.	2.700		i)66/33KV,2x20 MVA	35.40
14	Micros(below 3MW).	6.150		ii)66/11KV,2x20 MVA	37.40
B. RECEIVING STATIONS/FEEDERS:					
1	220 KV,S/Stn. Hamirpur (Matansidh)		20	66KV S/Stn.Parwanoo	
	i)220/132 KV,2x80/100 MVA	196.20		i)66/11KV,2x20 MVA	26.74
	ii) 33/11KV,2x3.15 MVA	3.65	21	220KV S/Stn.Baddi	
2	132KV S/Stn.Anu (Hamirpur)			i)220/66KV,2x80/100 MVA	170.07
	i) 132/33KV,2x25/31.5MVA	52.08		ii)220/33KV,1x25/31.5MVA	29.11
	ii) 33/11KV,2x5 MVA	5.70		iii) 66/33KV,1x20 MVA	17.93
3	132KV S/Stn.Dehan,			iv)66/11KV,4x16/20 MVA	20.07
	i)132/33KV,1x16+1x25/31.5 MVA	32.91	22	220KV S/Stn.Kunihar	
	ii)33/11KV, 2x4 MVA	7.65		i)220/132KV,2x80/100 MVA	95.60
4	220 KV S/Stn. Jasooore			ii)132/33KV,1x8 MVA	7.70
	i)220 /132KV,3x50 MVA	150.85	23	220KV S/Stn.Kotla	
	ii)220/33KV.2x25/31.5 MVA	30.85		i)220/66KV,3x10.5+1x25/31.5 MVA	57.20
	iii)33/11KV, 1x10+1x5 MVA	10.57		ii)66/22KV,1x10 +1x6.3MVA	10.40
5	132KV S/Stn. Kangra,		24	132KV S/Stn.Solan	
	i)132/33KV, 2x25/31.5 MVA	40.00		i)132/66KV, 1x25/31.5 MVA	23.31
	ii)33/11KV,2x10 MVA	11.03		ii)132/33KV3x16.67 MVA	50.06
6	132KV S/Stn.Kandrori,		25	132KV S/Stn.Jutogh.	
	i)132/33KV, 3x16 MVA	29.70		i)132/66KV,3x10.5+1x25/31.5 MVA	61.43
	ii)33/11KV, 2x6.3 MVA	7.14		ii)132/33KV,3x10.5+1x25/31.5 MVA	62.35
7	132KV S/Stn. Bathri,		26	66KV S/Stn.Totu	
	i)132/33KV, 2x25/31.5 MVA	24.24		i)66/15kV,2x4 MVA	4.00
	ii)33/11KV,2x1.6 MVA	2.18		ii)66/11kV,2x6.3 MVA	12.90
8	132KV S/Stn. Dehra		27	66KV S/Stn. Gumma,	
	i)132/33KV,2x16/20 MVA	20.26		i)66/22kV,2x6.3+1x10 MVA	21.77
	ii)33/11KV 2x4 MVA	3.65	28	66KV S/Stn.Hulli (Kot Khai)	
9	132/66/33KV S/Stn. Una,			i)66/22KV,1x6.3+1x10 MVA	15.80
	i)132/33KV, 2x25/31.5 MVA	38.67	29	66KV S/Stn. Nathpa	
	ii) 66/33KV, 2x10 MVA	15.08		i)66/22KV,1x10 +1x20MVA	21.24
	iii) 66/11KV, 1x6.3 MVA	3.88	30	66KV S/Stn.Kumarsain	
	iv) 33/11KV, 2x6.3 MVA	6.62		i)66/22KV,2x6.3 MVA	10.35
10	132KV S/Stn.Amb		31	66KV, S/Stn. Rohroo(Samolli)	
	i)132/33KV,1x16+1x25/31.5 MVA	38.43		i)66/22KV,3x5.33+1x10 MVA	20.60
	ii)33/11KV,2x5 MVA	6.11	32	132KV S/Stn.Darlaghat	
11	66KV S/Stn.Sansarpur Terrace			i)132/11KV1x7.5 MVA	3.47
	i)66/11KV,2x10 MVA	11.03	33	66KV S/Stn.Sainj	
12	66KV S/Stn.Golthai			i)66/11KV,2x6.3 MVA	5.80
	i)66/11KV,1x6.3MVA	0.68	34	66KV S/Stn. Akanwali	
13	132/66/33/22KV S/Stn. Bijni			i)66/33KV 1x20 MVA	13.31
	i)132/33KV,1x16+1x16/20 MVA	31.23		ii)66/11KV 1x20 MVA	18.40
	ii)66/33KV,1x20 MVA	11.43	35	132/33KV S/Stn. Gagret	
	iii) 33/22KV,5x2.5 MVA	11.43		i)132/33KV,1x25/31.5 MVA	9.16
14	132KV S/Stn. Bajoura			ii) 132/11KV, 1x25/31.5 MVA	2.47
	i)132/33,2x25/31.5 MVA	42.75	36	132/33KV S/Stn. Malana	
				i)132/33KV,1x16 MVA	14.06
			37	220/66KV S/Stn. Upper Nangal(Nalagarh)	
				i) 220/66KV, 2x80/100 MVA	128.95

TABLE-7.

MAXIMUM DEMAND ON SYSTEM (MW)

Sr. No.	Month	Max. Demand (in MW)
1	April,2010	1043
2	May, 2010	1011
3	June,2010	1016
4	July,2010	1055
5	August,2010	1089
6	September,2010	1068
7	October,2010	1164
8	November 2010	1159
9	December, 2010	1250
10	January,2011	1278
11	February,2011	1253
12	March,2011	1213

Maximum demand during the year 2010-11, is 1278 MW.

TABLE-8.

DISTRICT WISE STATUS OF VILLAGE ELECTRIFICATION, AS PER 2001 CENSUS.

Sr. No.	Name of District.	Total No. of inhabited villages as per 2001 census.	Total villages electrified, ending 3/11	Villages which can not be electrified as per foot note	Balance No. of villages for electrifications ending 3/11.
1	Chamba*	1118	1111	1	6
2	Kangra**	3619	3618	1	-
3	Una.	758	758	-	-
4	Hamirpur.	1635	1635	-	-
5	Bilaspur.	965	965	-	-
6	Mandi.	2833	2830	-	3
7	Kullu.	172	172	-	-
8	Lahaul-Spiiti	287	263	-	24
9	Shimla***	2520	2513	6	1
10	Solan.	2388	2388	-	-
11	Kinnaur****	234	196	3	35
12	Sirmour.	966	966	-	-
	Total:-	17,495	17,415	11	69

Note:

1 (*) One Village Chandroni Dhar of Mehla Block of Chamba District is of migrant Gujjars who stay there only for a period of three to four months. As such, there is no technical justification for its electrification.

2 (**) One Village Chakvan Plachak of Kangra District can not be electrified as this village is a transit camp on the way to Bada Bhangal having no population.

3 (***) Six Villages of Shimla District namely Urui up Mahal, DPF Jitata, Dhar Jabal, DPF Gokswari (of Rohru Block) and DPF Chanaun, DPF Chansal Dhar (of Dodra Kwar Block) can not be electrified as these villages are in the densely populated forest (DPF) areas and these villages have migratory / seasonal population.

4 (****) Three Villages of Kinnaur District namely Up Mahal Forche (C. No. 1955400 Pooh), Samodayan (C. No. 1964300 Pooh) and DPF 73(C) C. No. 1993700 Pooh having no habitation are not technically justified for electrification.

TABLE-9

SCHEMewise STATUS IN RESPECT OF CEN(SI) P:SI CATEGORY SCHEMES

S.No	Name of Scheme	Code No:	Sanctioned Amount			Expenditure ending March,2011	(Rs.in lacs)
			REC Share	HPSEB Share	Total		Loan Amount drawn, ending March,2011
1	2	3	4	5	6	7	8
(A) S.I. Schemes identified for closure.							
1	SI Scheme in Prini (Kullu)	060317	174.764	0	174.764	245.505	143.706
2	SI Scheme in Thakurdwara	060337	150.770	49.937	200.707	201.394	135.693
3	SI Scheme in Jari (Kullu)	060339	177.250	7.707	184.957	123.819	121.017
4	SI Scheme in Chowari	060362	101.107	0	101.107	98.104	81.164
5	SI Scheme in Charna.	060365	185.553	19.689	205.242	158.114	152.433
6	SI Scheme in Sandhole	060372	126.327	0.542	126.869	180.186	111.625
7	SI Scheme in Sadwan	060454	166.590	18.510	185.100	178.279	151.457
8	SI Scheme in Lunj	060455	210.650	23.400	234.050	76.431	163.357
9	SI Scheme in Palampur Town	060456	148.490	16.490	164.980	227.011	108.914
10	SI Scheme in Kangra town	060457	102.410	11.380	113.790	244.416	68.542
Total (A):		10 Nos.	1543.911	147.655	1691.566	1733.259	1237.908
(B) Ongoing S.I. Schemes.							
1	Creation of 33/11 kV 1x1.6 MVA S/Stn at Chaned along with associated 33/11 kV HT line under Electrical Divison, Chamba.	060452	144.300	0.799	145.010	-	75.705
2	Creation of 33/11 KV, S/Stn at Khaira under Operation Circle Kangra.	3200	366.75	40.75	407.50	-	-
3	Creation of 33/11 kV S/Stn at Nagri Gopalpur under Operation Circle Kangra.	3217	290.44	32.27	322.71	-	-
4	Creation of 33/11 kV S/Stn at Patti Panchrukhi under Operation Circle Kangra.	3216	320.55	35.62	356.17	-	-
5	Construction of 33 kVD-C Link line between Khouli HEP & 33 kV S/Stn. at Gaj in Kangra.	3665	229.78	25.53	255.31	-	-
6	Creation of 33/11KV S/Stn. at Totarani(Macleodganj) under Operation Circle Kangra.	3218	296.09	32.9	328.99	-	-
7	Augmentation of 1 No. 33KV Sub Station at Kalapul from 2x3.15 MVA to 2x6.3 MVA in Operation Circle Kangra.	3600	107.44	11.93	119.37	-	84.67
8	Creation of One No 33/11 kV 2x1.6 MVA S/Stn at Thanakalan under Operation Circle Una	100879(old 060459)	322.88	35.66	358.74	-	64.58
9	Construction of additional 33 kV Line from Una(Rakkar) to Tahliwala along with Augmentation of 33/11 KV S/Stn from 2X6.3 MVA to 2x10 MVA s/stn at Tahliwala under Operation Circle Una.	3416	389.15	43.24	432.39	-	140.86
10	Augmentation of 33 kV S/Stn at Haroli from 33/11 Kv,2x3.15 to 2x6.3 MVA under Operation Circle Una .	3201	32.47	3.61	36.08	-	-
11	Augmentation of 33/11 kV S/Stn. from 2x3.15 MVA to 2x6.3 MVA at Bhaira in Una Distt.	3668	128.34	14.26	142.6	-	-
12	Pumpsets energisation works in Operation Circle Una.	3907	625.44	69.5	694.94	-	-
13	Replacement of old equipments (Switchgear) in 33 kV Substations at Mehtpur, Bangana and Bhaira under Operation Circle, Una	3911	241.26	26.81	268.07	-	-
14	Construction of 1x3.15 MVA,33/11 KV (Unattended type) S/Stn at Attara (Gangath) in Kangra	3924	318.88	35.43	354.31	-	-
15	Construction of 2x3.15 MVA,33/11 kV (Unattended type)S/Stn at Rehan in Kangra .	3925	405.49	45.05	450.54	-	-

16	Augmentation of 33/11 kV S/Stn. at Jawali from 2x1.6 MVA to 2x3.15 MVA in Operation Circle Kangra	3915	194.9	21.65	216.55	-	-
17	Augmentation of 33/11 kV S/Stn. at Shahpur from 2x2.5 MVA to 2x6.3 MVA in Operation Circle Kangra	3912	141.07	15.67	156.74	-	-
18	Augmentation of 33/11 kV substation from 2x1.6 MVA to 2x3.15 MVA at Bharwain in Una Distt.	3978	79.46	8.83	88.29	-	-
19	Construction of 2x3.15 MVA ,33/11 KV S/Stn. at Chack Sarai in Una Distt.	3780	429.22	47.69	476.91	-	-
20	Creation of 2x1.6 MVA,33/11KV Sub-Station at Lahru Dadu in Kangra Distt.	3736	379.63	42.19	421.82	-	-
21	Augmentation of 1x1.0 MVA to 1x1.0MVA + 1x3.15 MVA,33/11KV Sub-Station at Chadhiar in Kangra Distt.	4334	185.54	20.61	206.15	-	-
22	Construction of 1 No. 33/11KV Sub-Station at Bharoli Jadid in Kangra Distt.	4368	321.73	35.75	357.48	-	-
23	Scheme for procurement of ACSR/AAAC conductor for repalcement of G.I. wire existing in distribution system (H.T & L.T) under North Zone 100901 (old 060460)		71.47	27.06	99.07	-	-
24	Augmentation of 33/11 KV S/Stn from 2x1.6 MVA to 2x3.15 MVA at Shillai in Sirmour Distt.	3666	96.71	10.74	107.45	-	-
25	Pumpsets energisation works in Paonta Sahib block of Sirmour Distt.	3440	298.91	33.21	332.12	-	-
26	Creation of 1 No. 33KV, S/Stn. at Arki in Operation Circle Solan.	3597	367.60	40.84	408.44	-	-
27	Creation of 2x3.15 MVA, 33KV S/Stn. (un-manned) at Oachghat in Solan Distt.	3662	336.22	37.36	373.58	-	-
28	Creation of 1x3.15 MVA, 33/11kV (un-manned) S/Stn at Khairi under Electrical Division Rajgarh in Sirmour Distt.	3685	412.61	45.84	458.45	-	-
29	Augmentation of 1x3.15 MVA,33/11 KV to 2x3.15 MVA, 33/11 kV Sub-Station at Puruwala, under Elect. Division, HPSEB, Paonta-Sahib in Sirmour Distt.	3688	148.7	16.52	165.22	-	-
30	Construction of 2x3.15 MVA, 33/11KV S/Stn. at Barma Papri in Sirmour Distt.	3926	351.93	39.11	391.04	-	-
31	Augmentation of 33/11kV S/Stn from 2x3.15 MVA to 2x6.3 MVA, at Dhaula kuan in Sirmour Distt.	4215	201.96	22.44	224.40	-	-
32	Scheme for procurement of ACSR/AAAC conductor for repalcement of G.I. wire existing in distribution system (H.T & L.T) under South Zone 100902 (old 060461)		186.84	72.2	259.04	-	-
33	Creation of 2x1.6MVA, 33 KV S/Stn (unmanned) at Mandap under ED Dharpur in Mandi Distt.	3605	369.03	41.00	410.03	-	-
34	Augmentation of 1x1+1x2.5 MVA,33/11 kV to 2x3.15 MVA , 33/11 KV S/Stn. at Jhandutta in Bilaspur Distt.	3922	123.12	13.68	136.80	-	-
35	Augmentation of 33/11 kV Sub-Station at Galore from 2x1.0 MVA to 2x3.15 MVA in Operation Circle Hamirpur.	3913	83.98	9.34	93.32	-	-
36	Augmentation of 33 /11 kV S/Stn. at Khudla from 2x1.6 MVA to 2x3.15.MVA in Operation Circle Hamirpur.	3914	85.38	9.49	94.87	-	-
37	Construction of 2x3.15 MVA,33/11 KV S/Stn at Kalkhar in Mandi Distt.	3923	474.35	52.71	527.06	-	-
38	Construction of 2x1.0 MVA, 33 /11 KV S/Stn at Bhararoo in Mandi Distt.	4217	296.86	32.99	329.85	-	-
39	Augmentation of 2x5 MVA,33 /11 kV to 2x10 MVA, 33/11 KV S/Stn. at Prini in Kullu Distt.	3684	324.99	36.11	361.10	-	-
40	Construction of 2x3.15 MVA, 33 /11KV Sub-Station at Bhareri in Hamirpur Distt.	4218	375.38	41.71	417.09	-	-
41	Augmentation of 33/11 kV Sub-Station from 1x1.0 MVA to 2x1.6 MVA at Dhaneta in Hamirpur Distt.	4216	123.85	13.77	137.62	-	-

42	Construction of 33KV HT Line for inter-linking of 33/11KV Sub-Station Jakhu and 33/11 kv Sub-Station Kakkar in Hamirpur Distt.	4337	124.81	13.86	138.67	-	-
43	Aug. of 33/11KV, Sub-Station Jabli from 2x2.5MVA to 2x6.3 MVA in Bilaspur Distt.	4333	282.25	71.36	313.61	-	-
44	Scheme for procurement of ACSR/AAAC conductor for replacement of G.I. wire existing in distribution system (H.T & L.T) under Central Zone	100903 (Old 060462)	84.66	24.91	109.57	-	156.327
	Total B	44 Nos	11172.420	1351.999	12485.070	-	522.142
	Total A+B	54 Nos.	12716.331	1499.654	14176.636	1733.259	1760.050
	Total schemes closed	32 Nos.	4931.531	2218.689	7150.320	5035.638	3357.667
	Grand Total	86 Nos.	17647.862	3718.343	21326.956	6768.897	5117.717

TABLE-10.
CONSUMERS SERVED(NOS).

Sr. No.	Category of Consumers	Total number of consumers		%age to total number of consumers as on 31.03.2011.	Total increase in number of consumers during 10-11	%age increase in number of consumers during 2010-11.
		As on 31.03.2010	As on 31.03.2011.			
1	Domestic.	1625869	1668261	84.71	42392	2.61
2	Non-Domestic					
	Non-Commercial.	17436	18278	0.93	842	4.83
3	N.R.S.	216688	222936	11.32	6248	2.88
4	Industrial:					
	(i) Small & Medium	32736	32591	1.655	-145	-0.44
	(ii) Large	1446	1580	0.080	134	9.27
	Sub Total	34182	34171	1.74	-11	-0.03
5	Govt. Irrigation & WSS.	4193	4483	0.23	290	6.92
6	Public Lighting.	641	702	0.04	61	9.52
7	Agriculture.	15204	16861	0.86	1657	10.90
8	Bulk .	295	325	0.02	30	10.17
9	Temporary.	3181	3380	0.17	199	6.26
	Total:	1917689	1969397	100.00	51708	2.70

**TABLE-11.
CONNECTED LOAD(KW).**

Sr. No.	Category of Consumers	CONNECTED LOAD		%age to total connected load as on 31.03.2011	increase during 2010-11	%age increase in during 2010-11.
		As on 31.03.2010	As on 31.03.2011.			
1.	Domestic.	2260080.157	2379678.933	46.86	119598.776	5.29
2	Non-Domestic					
	Non-Commercial.	106715.834	111537.25	2.20	4821.416	4.52
3	N.R.S.	482879.127	504988.297	9.94	22109.17	4.58
4	Industrial:					
	(i) Small & Medium	351733.948	359457.5	7.079	7723.552	2.20
	(ii) Large	1139021.42	1294523.55	25.492	155502.13	13.65
	Sub Total	1490755.37	1653981.05	32.57	163225.682	10.95
5	Govt.Irrigation & WSS.	214549.456	225594.946	4.44	11045.49	5.15
6	Public Lighting.	3362.483	5553.2	0.11	2190.717	65.15
7	Agriculture.	67497.215	68650.694	1.35	1153.479	1.71
8	Bulk .	109313.901	106531.476	2.10	-2782.425	-2.55
9	Temporary.	23152.630	21635.795	0.43	-1516.835	-6.55
	Total:	4758306.171	5078151.641	100.00	319845.470	6.72

**TABLE-12.
UTILISATION PATTERN OF ENERGY (MU).**

Sr. No.	Category of consumers	2009-10		2010-11	
		Consumption	Percentage to total consumption	Percentage	Consumption to total consumption
1	Domestic.	1112.12	19.13	1281.956	19.30
2	Non-Domestic				
	Non-Commercial.	89.88	1.55	89.542	1.35
3	N.R.S.	305.65	5.26	356.527	5.37
4	Industrial:				
	i) Small & Medium Power.	175.517	3.02	201.452	3.03
	ii) Large Suply.	3421.342	58.84	3993.712	60.14
	Sub-total(4):	3596.859	61.86	4195.164	63.17
5	Govt.Irrigation & WSS.	414.87	7.13	409.900	6.17
6	Public Lighting.	12.54	0.22	12.500	0.19
7	Agriculture.	36.62	0.63	35.100	0.53
8	Bulk.	218.73	3.76	235.600	3.55
9	Temporary.	27.06	0.46	24.600	0.37
	Total:	5814.329	100	6640.889	100.00

**TABLE-13.
DFDISTRICTWISE STATUS OF ELECTRIFICATION OF HAMLETS,**

Sr. No.	Name of District.	Total No. of Identified hamlets as per 1988 survey.	Hamlets Electrified, ending March 2011		Balance to be Electrified.
			Identified.	Un-Identified.	
1	Mandi.	609	609	266	-
2	Bilaspur.	51	51	35	-
3	Sirmour.	770	680	2	90
4	Kinnaur.	71	71	28	-
5	Solan.	434	434	-	-
6	Kullu.	512	512	92	-
7	Lahaul-Spiti.	2	2	3	-
8	Shimla.	782	769	85	13
9	Chamba.	851	808	30	43
10	Kangra.	43	43	34	-
11	Hamirpur.	12	12	12	-
12	Una.	45	45	-	-
	Total:	4182	4036	587	146

Table-14.
HYDRO ELECTRIC POTENTIAL

Annex-I PROJECTS UNDER OPERATION:		Beas	Satluj	Ravi	Chenab	Yamuna	Total
A	State Sector (HPSEBL)	226.50	150.25	10.25	0.00	79.95	466.95
	Total	226.50	150.25	10.25	0.00	79.95	466.95
Annex-II PROJECTS UNDER EXECUTION:							
A	State Sector (HPSEBL)	100.00	14.50	0.00	0.00	0.00	114.50
	Total	100.00	14.50	0.00	0.00	0.00	114.50
	Grand Total	326.50	164.75	10.25	0.00	79.95	581.45

ANNEX-1. PROJECTS UNDER OPERATION.				ANNEX-II. PROJECTS UNDER EXECUTION :			
SR. NO.	NAME OF PROJECT	NAME OF BASIN	INSTALLED CAPACITY (MW)	SR. NO.	NAME OF PROJECT	NAME OF BASIN	INSTALLED CAPACITY (MW)
A	STATE SECTOR (HPSEBL):			A.	STATE SECTOR (HPSEBL):		
(i)	SATLUJ BASIN:			i)	Beas Basin		
1	Bhaba	Satluj	120.00	1	Uhl-III	Beas	100.00
2	Ghanvi	-do-	22.50				
3	Nogli	-do-	2.50				
4	Rongtong	-do-	2.00				
5	Chamba	-do-	1.75				
6	Rukti	-do-	1.50				
	TOTAL:		150.25		Total		100.00
(ii)	BEAS BASIN:			ii)	Satluj Basin		
1	Larji	Beas	126.00	1	Ghanvi-II	Satluj	10.00
2	Uhl-II(Bassi)	-do-	60.00	2	Bhaba Aug.PH	-do-	4.50
3	Baner	-do-	12.00				
4	Khauli	-do-	12.00				
5	Gaj	-do-	10.50				
6	Binwa	-do-	6.00				
	TOTAL:		226.50		Total		14.50
(iii)	YAMUNA BASIN:						
1	Giri	Yamuna	60.00				
2	Andhra	-do-	16.95				
3	Gumma	-do-	3.00				
4	TOTAL:		79.95				
(iv)	RAVI BASIN:						
1	Thirot	Ravi	4.50				
2	Holi	-do-	3.00				
3	Sal-II	-do-	2.00				
4	Chamba(Bhuri Singh Power House)	-do-	0.45				
5	Killar	-do-	0.30				
	TOTAL:		10.25				
	TOTAL:A		466.95				
					TOTAL:A		114.50

TABLE-15

SOURCE OF INCOME AND UTILISATION

A. SOURCE OF INCOME.

	Description	Amount (₹ in Lac)	Percentage
1	Domestic	34,736.97	9.82
2	Commercial	18,213.22	5.15
3	Industrial	154,720.46	43.73
4	Bulk Supply/Grid	9,745.35	2.75
5	Irrigation/Agriculture	1,689.91	0.48
6	Inter State	88,870.72	25.12
7	Public Lighting	601.82	0.17
8	Non domestic/Non commercial	5,126.62	1.45
9	Temporary Metered Supply	1,204.76	0.34
10	Other (PWW)	18,509.91	5.23
11	Common Pool	135.13	0.03
12	Miscellaneous Income	20,282.78	5.73
	Total	353,837.65	100.00

B SOURCE OF UTILISATION

1	Purchase of Power	262,195.11	64.75
2	Repair and Maintenance	4,345.28	1.07
3	Employee Costs (Net)	89,913.65	22.21
4	Admn. & General Expenses (Net)	5,060.12	1.24
5	Depreciation	13,357.55	3.30
6	Interest & Finance charges (Net after Capitalization)	17,898.37	4.43
7	Others	263.64	0.06
8	Prior Period (charges) /Income	11,900.78	2.94
	Total:-	404,934.50	100.00

TABLE-16.
POWER AVAILABILITY POSITION OF HIMACHAL PRADESH

Sr.No.	Name of Power House	Installed Capacity**		MW	
		MW	%AGE		
A.	OWN HYDRO:				
1	Bhaba(3x40MW)	120.000	100	120.000	
2	Bassi(4x15MW)	60.000	100	60.000	
3	Giri(2x30MW)	60.000	100	60.000	
4	Andhra(3x5.65MW)	16.950	100	16.950	
5	Baner(3x4MW)	12.000	88	10.560	
6	Gaj(3x3.5MW)	10.500	88	9.240	
7	Binwa(2x3MW)	6.000	100	6.000	
8	Thirot(3x1.5MW)	4.500	100	4.500	
9	Micros	10.500	100	10.500	
10	Ghanvi(2x11.25MW)	22.500	88	19.800	
11	Gumma(2x1.5MW)	3.000	100	3.000	
12	.Holi(2x1.5MW)	3.000	100	3.000	
13	Larji(3x42)	126.000	88	110.880	
14	Khauri(2x6)	12.000	88	10.560	
	Total(A):	466.950		444.990	
B	OWN DIESEL:				
1	Keylong	0.133	100	0.133	
	Total(A+B):	467.083		445.123	
C.	SHARED GENERATION IN OTHER PROJECTS				
Sr. No.	Name of Power House.	Installed capacity	Effective capacity	H.P.Share.	
				%age	MW
i)	BBMB STATIONS:				
	Bhakra:(L)5x108+	1325	1325	2.12	28.09
	(R) 5x157				10.00
	Ganguwal:1x29.25,1x24.2, 1x24.2	77.65	77.65	2.12	1.65
	Kotla:1x29.25,1x24.2, 1x24.2	77.65	77.65	2.12	1.65
	Dehar.	990	990	Fixed	15.00
	Pong.	396	396	0.00	0.00
	Sub-Total (i):	2866.30	2866.30		56.39
ii)	NHPC STATIONS:				
	Chamera (540MW)	540.00	540.00	2.90	15.66
	Tanakpur(120MW)	120.00	94.20	3.84	3.62
	Salal	690.00	690.00	0.99	6.83
	Uri(480 MW)	480.00	480.00	2.71	13.01
	Chamera-II	300.00	300.00	3.67	11.01
	Dhauliganga	280.00	280.00	3.57	10.00
	Sub-Total (ii):	2410.00	2384.20		60.13
iii	NTPC PROJECTS /STATIONS:				
a	Coal Fired:				
i	Rihand-I	1000.00	1000.00	3.50	35.00
ii	Rihand-II	1000.00	1000.00	3.30	33.00
iii	Unchahar -I.	420.00	420.00	1.67	7.00
iv	Unchahar -II	420.00	420.00	2.86	12.00
v	Unchchar -III	210.00	210.00	3.80	8.00
vi	Kahalgaoon-II	1500.00	1500.00	1.53	22.95
	Sub-Total (a):	4550.00	4550.00		117.95
b	Gas Fired:				
	Anta Gas	419.33	419.33	3.58	15.01
	Auriya Gas	663.36	663.36	3.32	22.02
	Dadri Gas.	829.78	829.78	3.01	24.98
	Total (b):	1912.47	1912.47		62.01
	Sub-Total(iii)+(a+b):	6462.47	6462.47		179.96

iv	UJVNL/UPJVNL Stations:				
	Dhakrani(UJVNL)	33.69	33.69	25.00	8.42
	Dhalipur(UJVNL)	51.00	51.00	25.00	12.75
	Chibro(UJVNL)	240.00	240.00	25.00	60.00
	Khodri(UJVNL)	120.00	120.00	25.00	30.00
	Kulhal(UJVNL)	30.00	30.00	20.00	6.00
	Khara(UPJVNL)	72.00	72.00	20.00	14.40
	SubTotal(iv)	546.69	546.69		131.57
v	PSEB STATIONS:				
	Shanan	60.00	60.00	Fixed	1.00
	Shanan(Ext.)	50.00	50.00	Fixed	8.57
					(Eql. to 45 MU /annum).
	Sub-Total (v):	110.00	110.00		9.57
vi	NPC Projects				
	Narora	440.00	440.00	3.18	13.99
	RAPS (5&6)	440.00	440.00	3.41	15.00
	Sub-Total (vi):	880.00	880.00		28.99
vii	IPP Stations				
	Baspa-II HEP	300.00	300.00	88.00	264.00
	Patikari HEP	16.00	16.00	88.00	14.08
	Toss HEP	10.00	10.00	88.00	8.80
	Sub-Total (vii)	326.00	326.00		286.88
viii	Joint Venture Projects				
	Nathpa Jhakri Project	1500.00	1500.00	2.47	37.05
	Tehri HEP (THDC)	1000.00	1000.00	2.80	28.00
	Koteshwar (THDC)	400.00	100.00	2.01	2.01
	Sub-Total (viii)	2900.00	2600.00	7.28	67.06
	Total (I to viii)	16501.46	16175.66		820.55
D	SHPs <5MW capacity	149.25	149.25	100.00	149.25
	G. Total:	17117.793	16791.993		1414.923

TABLE-17(i).
EXISTING 33KV POWER SYSTEM IN H.P.

Sr. No.	Name of Sub-Station.	Voltage Ratio (KV)	Capacity (MVA)	Sr. No.	Name of Sub-Station.	Voltage Ratio(KV)	Capacity (MVA)
1	Ashwani Khad	33/11	1x4+1x2.5	75	Kataula	33/22	1x1.6
2	Badripur	33/11	2x4+2x5	76	Kather(Solan)	33/11	2x10
3	Baggi	33/22	2x3.15	77	Khad	33/11	1x2.5(Unmanned)
4	Baglehar	33/11	2x3.15	78	Khalini	33/11	2x10
5	Bagthan	33/11	1x3.15	79	Khudla	33/11	2x1.6
6	Baijnath	33/11	2x5+1x3.15	80	Khundian(Un-Manned)	33/11	1x1.6
7	Bakloh	33/11	2x2.5	81	Kot	33/11	2x1
8	Bangana	33/11	2x3.15	82	Koti	33/11	1x2.5+1x6
9	Banjar	33/11	2x3.15	83	Kotla(Nawanshahar)	33/11	2x3.15
10	Barbadar(Chabutra)(U/M)	33/11	2x1.6	84	Kullu	33/11	2x10
11	Barchawar(Sarkaghat)	33/11	2x5	85	Kunihar	33/11	3x2.5
12	Barsani	33/11	2x1.6	86	Kural(Dheera)	33/11	2x1.6
13	Barsar	33/11	2x3.15	87	Lad-Bharol	33/11	2x2.5
14	Baruhi(Baira)	33/11	2x3.15	88	Ladrour	33/11	1x1+1x2.5
15	Basal	33/11	2x3.15	89	Lunj	33/11	2x1.6(Unmanned)
16	Beri(Un-Manned)	33/11	1x2.5	90	Makreri	33/11	1x1.6
17	Bhaderwar	33/11	2x1.6	91	Maliana	33/11	1x10+1x6.3
18	Bharari	33/11	1x10+1x4	92	Manjholi	33/11	1x6.3+1x4
19	Bharari(Bilaspur)	33/11	2x1.6	93	Maranda	33/11	2x4+1x2.5
20	Bharmar	33/11	2x5	94	Mehatpur	33/11	3x6.3
21	Bharmour	33/11	1x1.6	95	Nadaun	33/11	1x2.5+1x5
22	Bharwain	33/11	2x1.6	96	Naggar	33/11	2x5
23	Bhoranj	33/11	2x2.5	97	Nagrota Bagwan	33/11	2x2.5
24	Bhota(Un-Manned)	33/11	1x1	98	Nagrota Surian	33/11	2x1+1x3.15
25	Bhunter	33/11	2x4	99	Nagwain (Un-Manned)	33/11	2x3.15
26	Bijhar	33/11	2x3.15	100	Namhol	33/11	2x2.5
27	Chadhiar	33/11	1x1 (Un-Manned)	101	Naswal	33/11	1x5+1x1
28	Chamba	33/11	2x6.3	102	Ninunallah Jhuni	33/11	2x1.6.
29	Charna	33/11	2x1.6	103	Paddar	33/11	2x1.6
30	Chobin(Un-Manned)	33/11	1x2.5 (Un-Manned)	104	Pandoh	33/11	2x2.5
31	Cholthru	33/11	2x1.6	105	Pangna	33/22	2x3.15
32	Chountra	33/11	2x1.6	106	Panthaghati(U/M)	33/11	2x3.15
33	Chowari	33/11	2x1.6	107	Paragpur	33/11	2x1.6
34	Dabat(Un-Manned)	33/11	2x3.15	108	Prini(Manali)	33/11	2x5
35	Dadahu	33/11	2x3.15	109	Puruwala (Paonta)	33/11	1x3.15
36	Dadasiba	33/11	1x1+1x2.5	110	Raja-Ka-Bagh(Nurpur)	33/11	2x6.3
37	Dalhousie	33/11	2x5	111	Rajgarh	33/11	2x2.5
38	Damtal	33/11	2x6.3	112	Ramshehar(U.M)	33/11	1x3.15
39	Damtal(Surajpur)	33/11	2x5	113	Rangas(Un/Manned)	33/11	2x1.6
40	Danoya(Baroh)	33/11	1x1+1x2.5	114	Ranital(Darkata)	33/11	1x1+1x3.15
41	Darang	33/11	1x1 (Un-Manned)	115	Ratti	33/11	2x1.6
42	Daulatpur Chowk	33/11	1x6.3+1x2.5	116	Rey(Badukar)	33/11	2x2.5
43	Dhami(Un-Manned)	33/11	1x2.5	117	Sadwan	33/11	2x1 (Unmanned)
44	Dhaneta(Un-Manned)	33/11	1x1	118	Saigloo	33/22	2x3.15
45	Dharampur	33/11	2x3.15	119	Sainj	33/11	2x3.15
46	Dhaulakuan	33/11	2x3.15	120	Salooni	33/11	2x1.6
47	Dhundi (Malithach)	33/11	2x1.6	121	Sandhol	33/11	2x1.6
48	Do-Sarka	33/11	2x6.3	122	Sarahan	33/11	2x1.6
49	Fatehpur	33/11	2x3.15	123	Sataun	33/11	1x2.5+2x1
50	Gagret	33/11	2x6.3	124	Saulikhad(Mandi)	33/22	2x3.15
51	Gaj	33/11	2x3.15	125	Shahpur	33/11	2x2.5
52	Galore	33/11	2x1	126	Shillai	33/11	2x1.6
53	Garkhal	33/11	2x3.15	127	Shogi	33/11	1x3.15
54	Gaura(Un-Manned)	33/11	1x6.3	128	Sidhpur	33/11	3x5
55	Gharola	33/11	2x1.6	129	Sihunta	33/11	2x1.6
56	Gohar	33/22	1x1.6+1x2.5	130	Slapper	33/11	2x2.5
57	Haripur	33/11	1x1.6+1x3.15	131	Subathu	33/11	2x3.15
58	Haroli	33/11	1x6.3 + 1x3.15	132	Sujanpur	33/11	1x3+1x4
59	Har-Raipur(Un-Manned)	33/11	1x6.3	133	Sundernagar(i)	33/11	2x5 + 1x3.15
60	Holi	33/11	1x1		(ii)	33/22	1x2.5+1x1
61	Jabli	33/11	2x2.5	134	Swarghat	33/11	1x2.5
62	Jaisinghpur	33/11	2x2.5	135	Talai	33/11	2x1.6
63	Jakhu(Un-Manned)	33/11	2x1.6	136	Tahlwala	33/11	2x10
64	Jarangla(Chamba)	33/11	2x3.15	137	Tanda Med.College	33/11	1x6.3
65	Jari	33/11	2x3.15	138	Tauni Devi	33/11	1x1+1x2.5
66	Jawalamukhi	33/11	2x3.15	139	Thakurdwara	33/11	2x3.15
67	Jawali	33/11	2x1.6	140	Thalut	33/11	2x3.15
68	Jhandutta	33/11	1x1+1x2.5	141	Thapkaur	33/11	1x2.5+1x5
69	Kakkar(Hamirpur)	33/11	1x4	142	Thirot	33/11	1x2.5
70	Kala-Amb	33/11	1x10	143	Thunag	33/22	1x1.6
71	Kalapur(D/Shala)	33/11	2x6.3	144	Thural	33/11	2x2.5
72	Kandaghat	33/22	2x1.6	145	Tikkan	33/11	1x1.6
73	Kandrour	33/11	2x3.15	146	Tissa(Nakrod)	33/11	2x1.6
74	Karga	33/11	2x1				

**TABLE-17(ii).
EXISTING EHV POWER SYSTEM IN HP**

Sr.No.	Name of S/Station.	Voltage ratio(KV).	Capacity(MVA).
1	Amb	i) 132/33 ii)33/11	1x25/31.5+1x16 2x5
2	Anu(Hamirpur)	i)132/33 ii)33/11	2x25/31.5 2x5
3	Akanwali	i)66/33 ii) 66/11	1x20 1x20
4	Bajoura	132/33	2x25/31.5
5	Bhaba (Kotla)	i)220/66 ii)66/22	3x10.50+1x25/31.5 1x10+1x6.3
6	Bathri	i)132/33 ii)33/11	2x25/31.5 2x1.6
7	Barotiwala	i)132/66 ii)132/11	3x31.5 1x16+2x25/31.5+1x16/20
8	Bijni	i) 132/33 ii)66/33 iii)33/22	1x16+1x16/20 1x20 5x2.5
9	Baddi	i) 220/66 ii)220/33 iii) 66/33 iv) 66/11	2x80/100 1x25/31.5 1x20 4x16/20
10	Dehra	i) 132/33 ii)33/11	2x16/20 2x4
11	Darlaghat	132/11	7.5
12	Gagret	132/33132/11	1x25/31.51x25/31.5
13	Gumma	66/22	2x6.3+1x10
14	Goalthai	66/11	1x6.3
15	Hulli(Gumma Kotkhai)	66/22	1x6.3+1x10
16	Jassure	i) 220/132 ii)220/33 iii)33/11	3x50 2x25/31.5 1x10+1x5
17	Jutogh	i)132/66 ii)132/33	3x10.5+1x25/31.5 3x10.5+1x25/31.5
18	Kunihar	i)220/132 ii)132/33	2x80/10 0 1x8
19	Kangra	i)132/33ii)33/11	2x25/31.52x10
20	Kumarsain	66/22	2x6.3
21	Kangoo	i)220/132 ii)132/33	1x80/100(3x26.67.33) 2x25/31.5
22	Kandrori	i)132/33 ii)33/11	2x16 2x6.3
23	Kala-Amb	i)132/33 ii)132/11	2x25/31.5 1x25/31.5
24	Malana	132/33	1x16
25	Matansidh(Hamirpur)	i)220/132 ii)33/11	2x80/100 2x3.15
26	Nalagarh	i)66/33 ii)66/11	2x20 2x20
27	Paonta	i)132/33 ii)132/11	2x25/31.5 1x25/31.5
28	Parwanoo	66/11	2x20
29	Palampur(Dehan)	i)132/33 ii)33/11	1x16+1x2 5/31.52x4
30	Rohru(Samoli)	66/22	3x5.33+1x10
31	Sansarpur	66/11	2x10
32	Solan	i)132/66 ii)132/33	1x25/31.5 3x16.67
33	Sungra(Nathpa)	66/22	1x10+1x20
34	Sainj	66/11	2x6.3
35	Totu	i)66/11 ii)66/15	2x6.3 2x4
36	Una(Rakkar)	i)132/33 ii)66/33 iii)66/11 iv)33/11	2x25/31.5 2x10 1x1.6 2x6.3
37	Uperla Nangal(Nalagarh)	220/66	2x80/100

TABLE-18(i).
POSITION OF LOAN AMOUNT SANCTIONED/DRAWN AND EXPENDITURE INCURRED IN RESPECT OF RE SCHEMES

Sr. No.	Name of Circle	Nos. of schemes sanctioned	Loan amount sanctioned	Loan amount drawn			Expenditure incurred			Total
				Upto	During	Total	Upto	During	IDC	
				March 2010	2010-11		March 2010	2010-11		
1	2	3	4	5	6	7	8	9	10	11
1	Dalhousie	4	1100.180	776.425	0	776.425	1089.296	0	651.909	1741.205
2	Kangra.	2	578.470	334.073	0	334.073	335.488	-2.543	181.875	514.82
3	Una	2	458.755	294.774	0	294.774	318.886	0	130.359	449.245
4	Bilaspur	5	839.050	630.434	0	630.434	630.371	0	176.923	807.294
5	Hamirpur	1	405.500	294.447	0	294.447	311.811	0	196.850	508.661
6	Mandi	2	649.540	493.845	0	493.845	465.717		234.497	700.214
7	Kullu	4	808.075	650.321	0	650.321	556.871	0	361.124	917.995
8	Solan	4	945.742	405.944	0	405.944	386.361	45.761	404.998	837.120
9	Nahan	7	826.564	475.985	0	475.985	417.354	0.518	190.601	608.473
10	Shimla	3	623.180	255.690	0	255.69	244.209		314.926	559.135
11	Rohru	1	63.190	30.703	0	30.703	38.749		26.821	65.57
12	Rampur	3	520.580	277.779	0	277.779	262.292	-4.126	204.681	462.847
	Total (A):	38	7818.826	4920.420	0	4920.42	5057.405	39.610	3075.564	8172.579
1	Schemes closed	350	26873.561	25466.929	0	25466.929	28966.464	0	970.763	29937.227
2	Schemes cancelled	7	95.801	4.016	0	4.016	0	0	0	0
	Grand Total:	395	34788.188	30391.365	0.000	30391.365	34023.869	39.610	4046.327	38109.806

TABLE-18(ii).

POSITION OF CIRCLE WISE SCHEMewise LOAN AMOUNT SANCTIONED, DRAWN AND EXPENDITURE INCURRED

Sr. No.	Name of Circle	Nos. of schemes sanctioned	Loan amount sanctioned	Loan amount drawn			Expenditure incurred			Total
				Upto	During	Total	Upto	During	IDC	
				March 2010	2010-11		March 2010	2010-11		
1	2	3	4	5	6	7	8	9	10	11
ON GOING SCHEMES:										
A) Chief Engineer (OP) North:										
Dalhousie Circle:										
1	RE of Tehsil Chamba, Bharmour and Holi	060382	274.820	176.775	0	176.775	301.276	0	209.428	510.704
2	RE of Tehsil Bhattiyat, Sihunta, Salooni and Bhalai	060383	260.140	178.981	0	178.981	250.028	0	107.1	357.128
3	RE of Tehsil Nurpur, Indora and Jawali	060403	410.540	345.062	0	345.062	405.91	0	217.581	623.491
4	RE of Tehsil Churah Distt. Chamba	060415	154.680	75.607	0	75.607	132.082	0	117.8	249.882
	Total:	4Nos	1100.180	776.425	0.000	776.425	1089.296	0.000	651.909	1741.205
Kangra Circle:										
1	RE of Tehsil Kangra, Baroh and Dharamshala.	060376	409.210	285.853	0.000	285.853	277.411	-2.543	162.579	437.447
2	RE of Tehsil Palampur, Jaisinghpur Thural & Dheera	060435	169.260	48.22	0	48.22	58.077	-	19.296	77.373
	Total:	2 Nos:	578.470	334.073	0.000	334.073	335.488	-2.543	181.875	514.820
Una Circle:										
1	RE of Tehsil Una	60350	244.935	200.794	0	200.794	201.438	-	83.837	285.275
3	RE of Tehsil Bangana	60421	213.820	93.98	0	93.98	117.448	-	46.522	163.97
	Total:	2 Nos:	458.755	294.774	0	294.774	318.886	0	130.359	449.245
	Sub-Total: A	8 Nos	2137.405	1405.272	0.000	1405.272	1743.670	-2.543	964.143	2705.270
B) Chief Engineer (OP) Central Zone:										
Bilaspur Circle:										
1	RE of Tehsil Naina Devi, part of Tehsil Bilaspur and Arki	060359	280.970	221.775	0	221.775	243.114	0	42.700	285.814
2	RE of Tehsil Karsog and Nihri.	060366	259.890	170.209	0	170.209	170.132	0	59.216	229.348
3	RE of Tehsil Thunag & Nihri.	060390	32.630	23.447	0	23.447	29.51	0	14.027	43.537

4	RE of Tehsil Sundernagar and Nihri.	060397	44.070	23.266	0	23.266	36.674	0	15.523	52.197
5	RE part of Tehsil S/Nagar, Mandi and Chachiot	060398	221.490	191.737	0	191.737	150.941	0	45.457	196.398
	Total:	5 Nos	839.050	630.434	0.000	630.434	630.371	0.000	176.923	807.294
	Kullu Circle:									
1	RE of Tehsil Lahaul & Udaipur.	060344	135.265	118.319	0	118.319	11.107	0	1.932	13.039
2	RE of Tehsil Banjar, Bali Chowki and part of Aut.	060370	258.660	213.86	0	213.860	193.298	0	115.472	308.77
3	RE part of Tehsil Kullu	060387	142.190	86.395	0	86.395	53.619	0	11.196	64.815
4	RE part of Tehsil Kullu.	060389	271.960	231.747	0	231.747	298.847	0	232.524	531.371
	Total:	4 Nos	808.075	650.321	0.000	650.321	556.871	0.000	361.124	917.995
	Mandi Circle:									
1	RE of Tehsil Mandi Kotli & Paddar.	060401	361.260	275.015	0	275.015	223.020	0	146.865	369.885
2	RE of Tehsil Jogindernagar, Ladbharol, Paddar & Baijnath	060412	288.280	218.83	0	218.830	242.697	0	87.632	330.329
	Total:	2 Nos	649.540	493.845	0.000	493.845	465.717	0.000	234.497	700.214
	Hamirpur Circle:									
1	RE of Tehsil Nadaun, Dehra-Gopipur and Khudian	060375	405.500	294.447	0	294.447	311.811	0	196.850	508.661
	Total:	1 Nos	405.500	294.447	0.000	294.447	311.811	0.000	196.850	508.661
	Sub Total:B	12 Nos	2702.165	2069.047	0.000	2069.047	1964.770	0.000	969.394	2934.164
	C) Chief Engineer (OP) South:									
	Solan Circle:									
1	RE of Tehsil Nalagarh and Ramshehar	060404	278.940	197.651	0	197.651	221.802	2.342	133.746	357.89
2	RE of Tehsil Arki, Kasauli, Krishangarh & Solan.	060407	185.960	80.433	0	80.433	64.508	3.561	129.709	197.778
3	RE of Tehsil Kasauli, Solan & Nalagarh	060410	225.300	69.992	0	69.992	52.483	11.506	80.613	144.602
4	RE of Tehsil Solan Kandaghat Junga and Pachhad	060420	255.542	57.868	0	57.868	47.568	28.352	60.930	136.85
	Total:	4 Nos:	945.742	405.944	0.000	405.944	386.361	45.761	404.998	837.120
	Shimla Circle:									
1	RE of Tehsil Suni, Shimla, Karsog and Arki.	060411	193.640	89.688	0	89.688	93.518	0	40.409	133.927
2	RE of Tehsil Theog and Chopal	060419	166.240	84.519	0	84.519	29.642	0	69.824	99.466
3	RE of Tehsil Shimla & Junga	060436	263.300	81.483	0	81.483	121.049	0	204.693	325.742
	Total:	3 Nos	623.180	255.690	0	255.690	244.209	0	314.926	559.135
	Rohru Circle:									
1	RE of Tehsil Kot-Khai	060437	63.190	30.703	0	30.703	38.749	0	26.821	65.570
	Total:	1 Nos	63.190	30.703	0	30.703	38.749	0	26.821	65.570
	Rampur Circle:									
1	RE of Tehsil Spiti and part of Hungrang	060346	156.280	64.772	0	64.772	2.119	0	7.600	9.719
2	RE of Tehsil Nichar and Sangla	060388	87.180	56.311	0	56.311	81.043	0	38.845	119.888
3	RE of Tehsil Rampur & part of Nankhari.	060417	277.120	156.696	0	156.696	179.13	-4.126	158.236	333.24
	Total:	3 Nos	520.580	277.779	0.000	277.779	262.292	-4.126	204.681	462.847
	Nahan Circle:									
1	RE of Tehsil Rajgarh, Panjotla, Nohra and Renuka.	060345	204.402	153.759	0	153.759	133.21	0	44.557	177.767
2	RE of Tehsil Paonta and Kamaru	060374	239.400	115.872	0	115.872	87.395	0.518	45.018	132.931
3	RE of Tehsil Pachhad and Kandaghat	060384	64.600	38.951	0	38.951	28.246	0	3.39	31.636
4	RE part of Tehsil Shillai	060413	26.820	15.765	0	15.765	40.817	0	37.117	77.934
5	RE of Tehsil Shillai	060414	27.350	16.903	0	16.903	22.995	0	10.497	33.492
6	RE of Tehsil Pachhad & Dadahu	060438	118.340	23.668	0	23.668	6.193	0	16.271	22.464
7	RE of Tehsil Dadahu & part of Renuka	060353	145.652	111.067	0	111.067	98.498	0	33.751	132.249
	Total:	7 Nos:	826.564	475.985	0.000	475.985	417.354	0.518	190.601	608.473
	Sub Total:C	18 Nos	2979.256	1446.101	0.000	1446.101	1348.965	42.153	1142.027	2533.145
	Grand Total A+B+C:	38 Nos.	7818.826	4920.420	0.000	4920.420	5057.405	39.610	3075.564	8172.579

TABLE-19.
STATEMENT OF PLAN ALLOCATION

(` in Lacs)													
Sr. No.	Name of Scheme	Total Allocation	CE(P) (PCA)	CE (I&P)	CE (ES)	CE (G)	CE(OP) South	CE (OP) North	CE(OP) C.Zone	CE (SO)	MD BVPCL	MD HPTCL	MD HPPCL
1	2	3	4	5	6	7	8	9	10	11	12	13	14
STATE PLAN													
I. GENERATION PROJECTS:													
A. PROJECTS UNDER HPSEB													
1	Bhaba Aug. P.H.	1128	613	0	0	515	0	0	0	0	0	0	0
2	Ghanvi Stage-II	5038	2198	0	0	2840	0	0	0	0	0	0	0
3	Khauli-II	123	123	0	0	0	0	0	0	0	0	0	0
4	Completed Projects	1535	335	0	0	1200	0	0	0	0	0	0	0
	Total A	7824	3269	0	0	4555	0	0	0	0	0	0	0
B. EQUITY PORTION													
a. Projects Under BVPCL													
1	Uhl Stage-III HEP	1000	0	0	0	0	0	0	0	0	1000	0	0
	Total (a)	1000	0	0	0	0	0	0	0	0	1000	0	0
b. Projects under HPPCL													
1	Integrated Kashang HEP	1315	0	0	0	0	0	0	0	0	0	0	1315
2	Sainj HEP	448	0	0	0	0	0	0	0	0	0	0	448
3	Sawra Kuddu HEP	930	0	0	0	0	0	0	0	0	0	0	930
4	Shongtong Karcham HEP	1307	0	0	0	0	0	0	0	0	0	0	1307
	Total (b)	4000	0	0	0	0	0	0	0	0	0	0	4000
	Total B	5000	0	0	0	0	0	0	0	0	1000	0	4000
	Total(Gen.):I:	12824	3269	0	0	4555	0	0	0	0	1000	0	4000
II.	TRANSMISSION SCHEMES	16900	0	0	16900	0	0	0	0	0	0	0	0
III.	DISTRIBUTION SCHEMES	7048	0	0	0	0	1406	3293	2349	0	0	0	0
IV.	RURAL ELECTRIFICATION	5482	0	0	0	0	2285	1200	1997	0	0	0	0
V.	R&M OF POWER HOUSES	2977	0	0	0	2977	0	0	0	0	0	0	0
VI.	SURVEY & INVESTIGATION.	1012	0	1012	0	0	0	0	0	0	0	0	0
VII.	TSP	178	0	0	0	0	140	0	38	0	0	0	0
VIII.	R-APDRP	1500	0	0	0	0	85	310	105	1000	0	0	0
IX.	Scheduled Caste Sub-Plan	100	0	0	0	0	46	25	29	0	0	0	0
X.	Board's Buildings.	600	61	0	92	34	130	100	183	0	0	0	0
XI	RGVY	12000	0	0	0	0	6308	3716	1976	0	0	0	0
XII	ERP PROJECTS	1355	0	0	0	0	0	0	0	1355	0	0	0
XIII	IT Schemes	1000	0	0	0	0	0	0	0	1000	0	0	0
	Sub -Total Ito XII:	50152	61	1012	16992	3011	10400	8644	6677	3355	0	0	0
	Grand Total:	62976	3330	1012	16992	7566	10400	8644	6677	3355	1000	0	4000

TABLE-20.
STATEMENT OF PLAN ALLOCATION AGAINST P.F.C./OTHER FUNDED SCHEMES.

(` In Lacs)											
Sr. No.	Name of Scheme	Allocation PFC/ Others	CE (PCA)	CE (SO)	CE (ES)	CE (G)	CE (OP) South	CE (OP) North	CZ. (OP) C. Zone	MD BVPCL	MD HPPCL
1	2	3	4	5	6	7	8	9	10	11	12
I. GENERATION:											
A. HPSEBL Projects											
1	Bhaba Aug. P/H	1128	613	-	-	515	-	-	-	-	-
2	Ghanvi Stage-II	5038	2198	-	-	2840	-	-	-	-	-
3	Completed Projects	1250	170	-	-	1080	-	-	-	-	-
B. Equity Portion											
(a) Project under BVPCL											
1	Uhl-III	900	0	0	0	0	0	0	0	900	0
(b) Projects under HPPCL											
1	Integrated Kashang	1183	0	0	0	0	0	0	0	-	1183
2	Sainj	403	0	0	0	0	0	0	0	-	403
3	Sawara Kuddu	837	0	0	0	0	0	0	0	-	837
4	Shongtong	1177	0	0	0	0	0	0	0	-	1177
	Total B (a + b)	4500	0	0	0	0	0	0	0	900	3600
II	Transmission Schemes	15220	-	100	15120	-	-	-	-	-	-
III	Distribution Schemes	6343	-	-	-	-	1265	2964	2114	-	-
IV	Rural Electrification	5261	-	-	-	-	2207	1130	1924	-	-
V	R&M of Power House	2132	-	-	-	2132	-	-	-	-	-
VI	R-APDRP	1351	-	900	-	-	77	279	95	-	-
VII	RGVY	12000	-	-	-	-	6308	3716	1976	-	-
VIII	TSP	178	-	-	-	-	140	0	38	-	-
IX	Schedule Caste Sub-Plan.	100	-	-	-	-	46	25	29	-	-
X	ERP Projects	1355	-	1355	-	-	-	-	-	-	-
XI	IT Schemes	1000	-	1000	-	-	-	-	-	-	-
	TOTAL:	56856	2981	3355	15120	6567	10043	8114	6176	900	3600

TABLE- 21.
STATEMENT SHOWING THE POSITION OF REVENUE OUTSTANDING (RECOVERABLE),

		(. In Lacs.)	
Sr. No.	Name of customers.	Receivable as on 31.3.2010	Receivable as on 31.3.2011
A. OUTSIDE THE STATE(INCLUDING WHEELING ETC.):			
1	U.P.P.C.L.	235.34	235.34
2	P.S.E.B.	1274.03	1770.27
3	R.R.V.P.N.L. Rajasthan	913.57	913.57
4	D.T.L.	823.78	735.82
5	U.T. Chandigarh.	0.56	0.56
6	BBMB	1.12	1.12
7	NTPC Sangrauli.	2.89	3.81
8	H.V.P.N.	792.73	1379.23
9	Malana HEP.	52.01	3614.67
10	Chamera HEP.	15.76	15.82
11	Raskat	0.99	0.02
12	Uttranchal JVN Ltd.	470.29	3671.79
13	UI Charges from NREB through PGCIL.	1308.91	1600.46
14	Power trading corporation of India.	1963.86	2846.86
15	Reactive energy from various CPUs/SEBs.	263.49	452.59
16	Badarpur	0.09	0.09
17	J&K	0	0
18	Northern Delhi	0	0
19	Total Power Trading consumers	0	0
20	Shallaing Power Project	0.01	0.01
21	Haryana	0.04	0.08
22	Sangroli	2.34	2.34
23	M/s IEX/PXIL	206.51	178.13
24	Mini Micro HEPs	0	0.44
	Total A:	5087.52	8601.12
B.	WITHIN THE STATE:-	32994.57	36525.31
	Grand Total (A+ B):	38082.09	45126.43

TABLE -22.
RECEIPT/EXPENDITURE AGAINST BUDGETED FUNDS FROM H.P.GOV.T.

		(. In Lacs.)		
Sr. No.	Major/Minor Head of Account	Name of Scheme	Revised Budget Allocation	Actual Expenditure
A DEMAND NO. 23 WATER AND DEVELOPMENT				
1	2801-80-101-01- SOON	Financial Support for augmentation of Sub-Station in HP(Non-Plan)	0.01	1500.00
2	2801-80-101-07- SOON	Subsidy on account of Tariff rollback & upfront Subsidy (Non-Plan)	14000.00	14000.00
3	6801-01-800-02-SOON	RGVY(REC Loans)Plan	0.00	0.00
4	6801-01-800-04- SOON	Loan under APDRP(Plan)	0.00	0.00
5	6801-00-190-01- SOON	Loan under ADB(Plan)	0.00	767.99
B DEMAND NO. 32 SCHEDULE CASTE SUB-PLAN				
1	4801-00-789-01-SOOS	Equity contribution to investment - HPSEBL	0.00	0.00

