

Annual Report

2011-12

on

The Working

of

State Power Utilities

&

Electricity Departments



सत्यमेव जयते

(Power & Energy Division)

PLANNING COMMISSION

GOVERNMENT OF INDIA

October, 2011

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**(Power & Energy Division)
Planning Commission
Government of India
October, 2011**

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Foreword

I am very happy to note that the Power & Energy Division of the Planning Commission has taken steps to reintroduce publication of the booklet entitled “**The Working of State Power Utilities and Electricity Departments**”. The publication was found to be very useful by policy makers and researchers alike. Although the Power Finance Corporation (PFC) had filled in the void by publishing its own booklet entitled “**Report on the Performance of State Power Utilities**”, there was a persistent demand that the Planning Commission should renew its publication. With the commencement of this publication, the Planning Commission would be able to provide a useful insight into the fast changing perspective of the Indian electricity sector. This booklet covers parameters which hitherto, were not being reported by the PFC.

The Indian power sector has come a long way ever since reforms were initiated in 1991 but still has a long way to go before the sector becomes self-sustaining. The re-introduction of this publication as a regular feature will help the debate on power sector reform to be based on firm statistical foundation.

October 17, 2011


(Montek Singh Ahluwalia)

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PREFACE

The Indian Electricity Sector has undergone a paradigm shift ever since reforms were initiated in the year 1991. Though the reforms had concentrated on the generation sector initially, the focus thereafter has been on distribution since this was identified as the key element for a successful reform programme. Today, the Indian Electricity Act, 2003 is in place which has repealed the old electricity laws, namely, the Indian Electricity Act, 1910, The Electricity Supply Act, 1948 and also the Electricity Regulatory Commissions Act, 1998. By virtue of this central legislation alongwith some other State legislations initiated in the electricity sector, there are 28 Electricity Regulatory Commissions functioning in the country and the task of determining tariffs has steadily moved away from the Government and it now rests with the Electricity Regulatory Commissions.

It is only natural that such a major shift in the policy initiated in the electricity sector is well documented so that the effect of this policy change can be analysed, especially from the point of view of laying down future policies in the power sector. It is with this perspective that this document has been published by the Power and Energy Division of the Planning Commission. It may be mentioned that a similar document was being published earlier by the Planning Commission during the period mid-1980s to 2001-02 but this had since been discontinued as it was felt that the authenticity of the data available from States was, perhaps, not good enough primarily because of lack of metering at various levels. Now that the extent of metering has considerably improved all over the country coupled with the introduction of information technology, it is expected that the quality of

data would have improved significantly. The Planning Commission proposes to publish this document on a yearly basis. It would, we hope, provide immense help to policy makers and researchers in the field of electricity.

We are aware that a similar document is being published by the Power Finance Corporation (PFC) which started almost immediately after the Planning Commission discontinued its earlier publication. The document which has now been published by the Planning Commission includes several other parameters which are not captured by the Power Finance Corporation, for example, power sector outlays, operating availability, forced outages, power supply position in various states, village electrification etc. It may, however, be pointed out that there could be some variations in the figures mentioned in the document of the PFC vis-à-vis this document, but this is limited to certain financial parameters, such as, Commercial Profit/Loss (with and without subsidy). The reason is that while the PFC has used audited figures, this document has used unaudited figures (Provisional) to evaluate it to reflect more recent year's developments.

Finally, may I mention that the data has been provided to us by the States concerned and all efforts have been made to ensure that there are no inconsistencies, I hope that this document would be found useful by all stakeholders. We will welcome suggestions towards improving the quality of this document.


(B.K. Chaturvedi)



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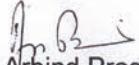
ACKNOWLEDGEMENT

The Power & Energy Division of the Planning Commission was earlier publishing a document entitled "Annual Report on the Working of State Electricity Boards & the Electricity Departments" and the last such publication was brought out in the year 2002. This publication was discontinued thereafter and it has now been decided to re-introduce this publication on a yearly basis hereafter.

The data contained in this Report has been obtained from the State Power Utilities and the Electricity Departments of various States / Union Territories. The information provided in this Report is not always based on audited figures since, in certain cases, considerable time lag is involved before the figures are finally audited. In view of this, it is likely that some figures in this Report would undergo a change once the audited figures are received in the Planning Commission.

It has been our endeavour to make this Report a useful document for policy planners and also researchers. The officers who have been involved in preparation of this Report include Shri. Somit Dasgupta, Adviser (Power), Shri R.K. Kaul, former Joint Adviser and Shri I.A. Khan, Joint Adviser. Miss Anna Agarwal, who worked in the Planning Commission as an Intern for a brief period had also been closely associated with this Report.

Any suggestions for improvement in the content and presentation of the Report would be welcome.


(Dr. Arbind Prasad)
Sr. Adviser (Power & Energy)

New Delhi
October, 2011

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Chapter 1

An Overview

1.1 THE INITIAL POWER PLANTS IN INDIA

It is difficult to say when exactly the first power plant was built in British India. There are, however, scattered reports available and it is said that in January 1887, Kilburn and Co. secured an electric lighting license as agents of the Indian Electric Company Limited. The Company changed its name to the Calcutta Electric Supply Corporation (CESC) soon afterwards. The first power generating company in Calcutta was started in 1899. There is yet another report which speaks of the first diesel power station established in Delhi in 1905. This was a private plant set up by an Englishman in the name of M/s John Fleming. He was given a license under the provisions of the Indian Electricity Act 1903. This particular company, after getting a license set up a small 2 MW diesel set at Lahori Gate in Old Delhi. Later on, the same company was converted to the Delhi Electric Supply and Traction Company. The first hydro electric station in India was erected at Sivasamudram in Mysore in 1902. This was followed by the hydro-electric station for the Bombay area.

One issue, however, is very clear and it is that most of the electrification was limited to large towns and cities. The emphasis was on supply to large urban concentrations and there was little coordination or cooperation between the different suppliers. The exact composition between private and public sector plants varied from Province to Province but there is no doubt that primarily, it was dominated by private plants. In addition to the private and public utility power stations, there were a number of industrial and railway installations having their own plants. The fact remains that India was facing tremendous power shortage. The growth in plant capacity did not keep pace with the growth in load since 1940. There was an acute power shortage in Bombay, Delhi, parts of Uttar Pradesh, Madras and West Bengal. During the War years, it was not possible to find additional plant or equipment. Several restrictions were imposed on new connections and measures like staggering of holidays were in position. It is not just that the installed capacity was insufficient, the condition of the plants were also a matter of concern since quite a few plants were more than 25 years old.

1.2 THE EARLY LEGISLATIONS AND THE ELECTRICITY SUPPLY ACT 1948

The first legislation in the electricity sector insofar as India is concerned was brought about by way of the Indian Electricity Act of 1887. This Act provided for the protection of

person and property from injury and risks, attendant to the supply and user of electricity for lighting and other purposes. This Act was repealed and replaced by the Indian Electricity Act 1903. The Act of 1903 was the first attempt made to deal with the subject on broad and general lines applicable to the country as a whole. The need for such an Act was impressed upon by the commercial community. The Government, it seems, found the task of making legislation on the electricity sector quite onerous where the interest of the community could be harmonized with that of the State. The Government, nevertheless, proceeded with the enactment of the Indian Electricity Act 1903, knowing fully well that it was imperfect and left matters in a state of doubt. The Act was already crippled due to some specific reasons since it did not recognize bulk sale of electricity and further, there was a problem of dual control where the local Government and the Government of India could both have a say in the matter. Things carried on in the same fashion and by 1907, it was realized that the difficulties being faced had to be resolved and the Government therefore, appointed a committee to look into the matter. This culminated in the drafting of the Indian Electricity Bill 1909 which finally led to the enactment of the Indian Electricity Act 1910. In this latest legislation, the power of licensing was left to the local government, thus getting rid of the problem of dual control and further, the concept of issuing license for bulk supply was introduced. Bulk supply meant that a company could generate and sell to other distributors in large quantities who would, in turn, retail it under a different license to small consumers.

In 1948, the Government enacted the Electricity Supply Act (ESA) 1948 to pave the way for the formation of the SEBs. The Electricity Supply Act, 1948 was enacted by the Government since it was felt that the pace of electrification was much below the desired pace and that electricity was only available in major towns/cities. The Electricity Supply Act, 1948 paved the way for setting up of State Electricity Boards (SEBs) and also envisaged constitution of the Central Electricity Authority (CEA). The following were the general duties of the State Electricity Boards:

- (i) To arrange in coordination of the generating company or companies operating in the State for the supply of electricity that may be required within the State and for the transmission and distribution of the same.
- (ii) To supply electricity as soon as practicable to a licensee or other person requiring such supply.
- (iii) To collect data on the demand for and use of electricity and to formulate perspective balance in coordination with the generating company etc.

The Electricity Supply Act 1948 also laid down the principles for calculating the returns which the Electricity Boards were to earn. A three percent return on net capital at the beginning of each year was the overall guiding principle for tariffs charged by the SEBs. In the initial years, these provisions ensured that the SEBs were financially healthy. Thereafter however, the financial position of the SEBs deteriorated. During the period 1948 to 1956,

the SEBs took over most private licensees upon expiry of their license agreements. While the growth of the Indian power sector primarily began in the private sector, the Industrial Policy Resolution of 1956 reserved generation and distribution of electricity exclusively for the public sector while allowing existing private utilities to continue. However, no new private licenses were granted. The electricity sector is a concurrent subject under Article 246 of the Constitution where the Federal Government is responsible for policies and statutory and organizational field work and it is the States' duty to provide for power generation and supply to consumers.

Though the Electric Supply Act 1948 mandated the setting up of the State Electricity Boards, it took a long time for all the states to set them up. One of the first SEBs to be constituted was that of Delhi which was set up in 1951. It was followed by the State of Bombay (1954), West Bengal (1955), Kerala (1957), Tamil Nadu (1957), Rajasthan (1957), Assam (1958), Bihar (1958), Punjab (1959), Gujarat (1960) etc. It is said that some of the states deliberately delayed the setting up of the SEBs since the State Government was unwilling to part with the power and privileges that go when administering a key infrastructure sector directly. The delay in the constitution of the SEBs has adversely affected the progress of the village electrification program.

1.3 OTHER INSTITUTIONAL DEVELOPMENTS

In 1964, the Regional Electricity Boards were established in different regions of the country for facilitating integrated operation and for encouraging exchange of power among the States. To encourage the States to build infrastructure for exchange of such power, inter-state lines were treated as centrally sponsored schemes and the States were provided interest free loans outside the State Plan. 55 inter-state lines were constructed in the course of which 13 lines were connecting States located in different regions and this created the initial set of inter-regional links. The reason for development on the lines of regions was that the generation resources in the country were spread unevenly. The hydro resources were primarily located in the Himalayan foothills and the North Eastern region whereas coal was located in the Bihar-Jharkhand-West Bengal area with some reserves also in Andhra Pradesh and Madhya Pradesh. Lignite was available in Tamil Nadu and Rajasthan.

The Rural Electrification Corporation (REC) was set up in 1969 after the famines of the 1960s with a mission to “facilitate availability of electricity for accelerated growth and for enrichment of quality of life of rural and semi-urban population. In order to give a boost to power generation, the Government of India created the National Hydroelectric Power Corporation (NHPC) and the National Thermal Power Corporation (NTPC) in 1975. These Corporations established large regional generating stations, the benefits of which were shared by the States of the region. The World Bank played a crucial role in the growth of NTPC's installed capacity as more than half of the US\$7 billion loan that it awarded went to NTPC. The Power Finance Corporation (PFC) was set up in 1986 to assist building of new capacities and in 1989, the Government of India set up the Power Grid Corporation of

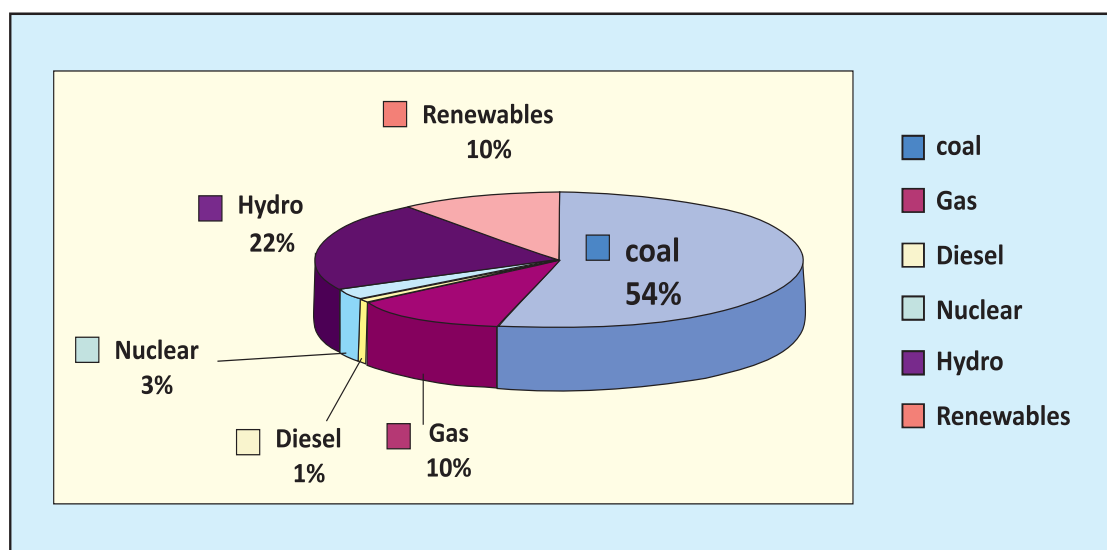
India Ltd. (PGCIL) by carving out transmission lines from the various central generating stations. Till that time, the generation and transmission systems in the country were planned and developed on the basis of regional self-sufficiency and the initial set of inter regional links was developed under the centrally sponsored programme.

1.4 GROWTH IN INSTALLED CAPACITY AND OTHER PARAMETERS

In the case of India, the installed capacity was only about 1,362 MW in 1947 and has grown to about 173,626 MW by March 2011. It is primarily thermal (65 percent) with maximum capacity from coal. The share of hydro is only about 22 percent despite the fact that hydro potential in India is about 84,000 MW at 60 percent load factor. Share of nuclear and renewables is small at 2.8 percent and 10.6 percent, respectively (Figure 1.1). These percentages, however, undergo a change when viewed in terms of energy generation, especially for hydro and renewables. Though hydro installed capacity is 23 percent of the total, its share in energy generation is only 14 percent. Similarly, renewables though having a share of almost 10 percent in capacity, its share in energy generation is only 2.4 percent. The reason is that the capacity factor for hydro and renewables is much below thermal plants.

Figure 1.1

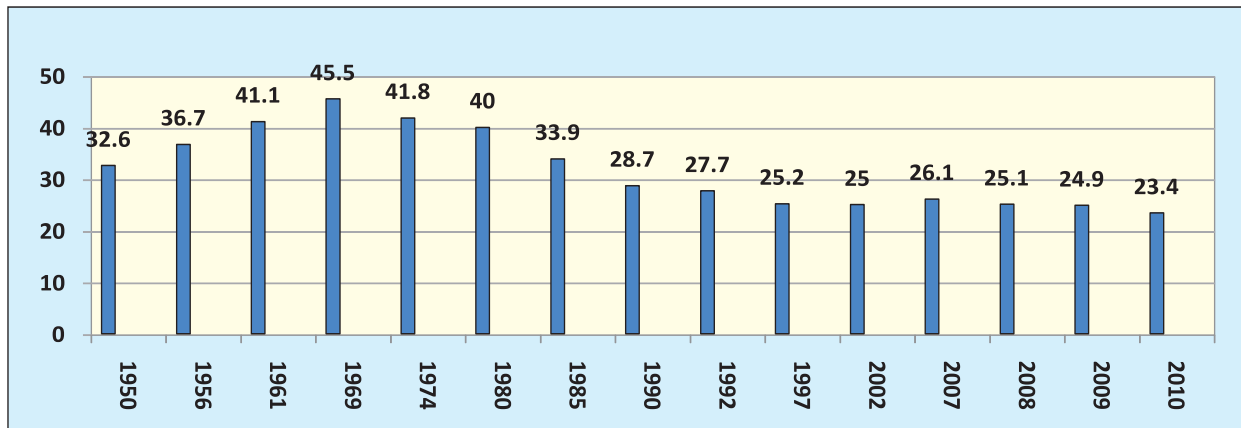
Share of installed capacity from different sources as in March 2011 (in percentages)



Source: Central Electricity Authority

On the issue of ownership, while it was predominantly private sector owned (about 60 percent) at the time of independence, the situation has completely changed today where 79 percent of the installed capacity is in the public sector (about 32 percent in the central sector and about 47 percent in the state sector). Private sector ownership is limited to 12 percent only. It is not only the type of ownership which has undergone a change, the ratio of thermal to hydro capacity has kept fluctuating between 23 percent and 45 percent. The ideal mix as far as India is concerned is 60:40.

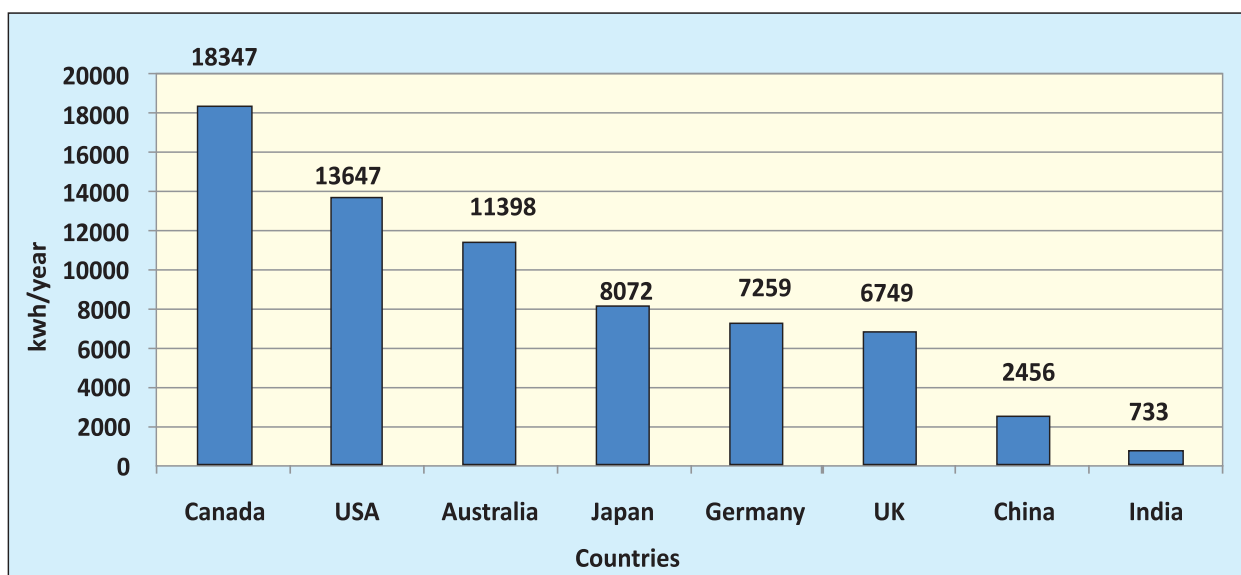
Figure 1.2
Ratio of hydro capacity to total installed capacity from 1950 to 2010 (in percentages)



Source: Central Electricity Authority

In per capita terms, India's growth has been less than modest and today, India's per capita consumption is only about 733 units as compared to a world average of 2429 units. A perusal of the per capita consumption levels of some of the developed countries gives an idea of the extent of deprivation in India when it comes to electricity consumption (Figure 1.3).

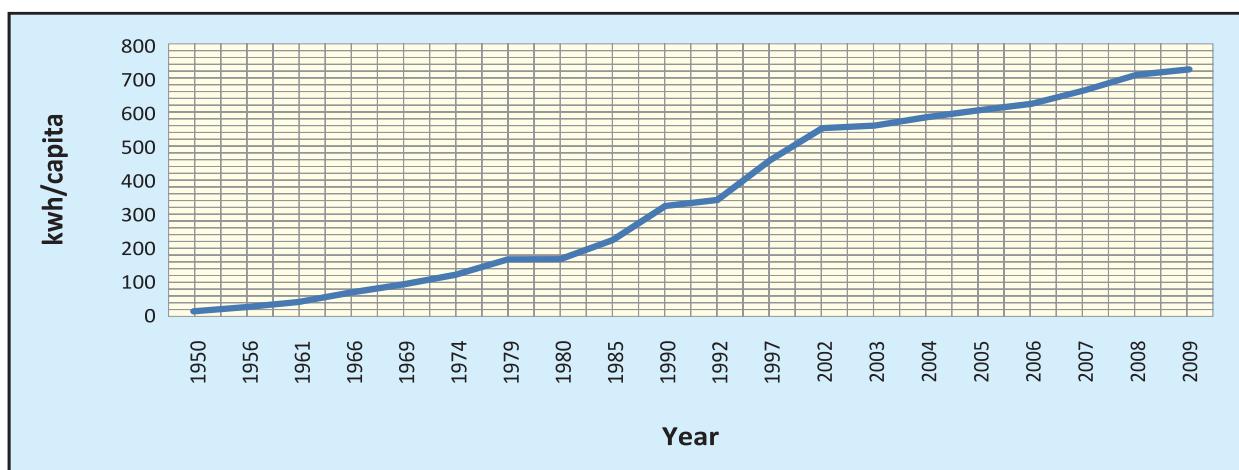
Figure 1.3
Per capita consumption of electricity in India vis-à-vis some developed economies and China (2008-09) in kwh/year



Source: Central Electricity Authority

This is not to suggest that India’s per capita consumption has been static over the years. It has been growing at about 7.3 percent per annum (Figure 1.4). What is important to note here is that there has been a noticeable change in the electrical consumption pattern across different consumer groups. The share of domestic and agricultural sectors have gone up at the cost of industrial and commercial consumers. The share of the domestic sector has gone up from 10.8 percent in 1970-71 to 25 percent in 2008-09. The corresponding figures for the agricultural sector are 10 percent and about 21 percent, respectively. As compared to this, industrial consumption has dropped from 61.6 percent to about 38 percent during the same period.

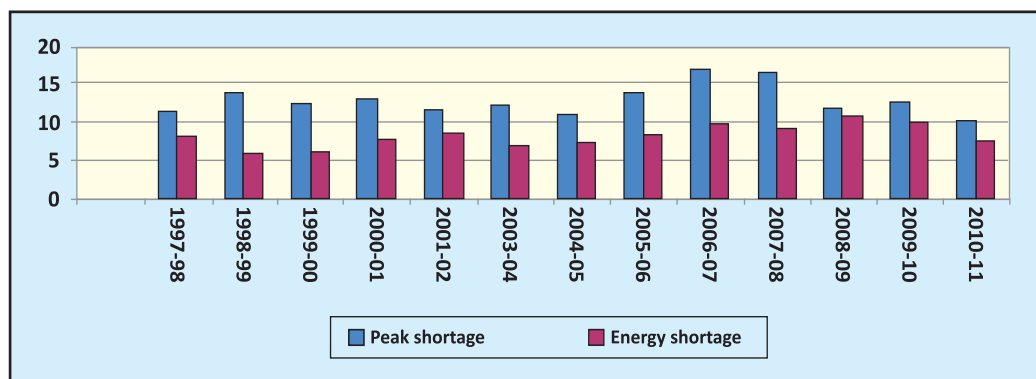
Figure 1.4
Per capita Consumption of Electricity in India



Source: Central Electricity Authority

Though India’s generation has increased at a modest pace of about 8% since independence, there have been consistent shortages, both in terms of load and energy requirements. Peak demand shortage is to the extent of 10.3% even today (2010-11) whereas the energy shortage is about 7.5% (Figure 1.5). The extent of shortages over the last ten years is indicated in the following table.

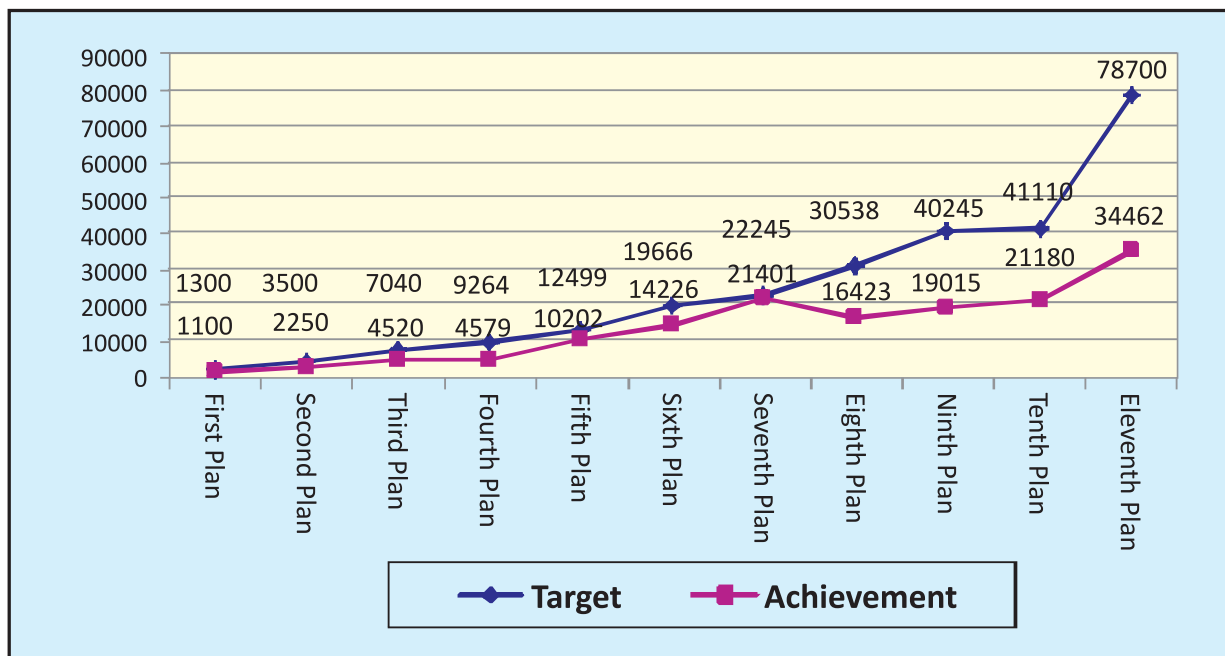
Figure 1.5
Energy and Peak Shortages in India (in percentages)



Source: Central Electricity Authority

Shortages in power supply is not surprising considering the fact that there has been consistent shortfalls in every Plan period in the capacity addition achieved vis-à-vis the targets (Figure 1.6). The shortfalls are due to various reasons, such as, over ambitious targets, delay in placement of order for main plant, delay in environment clearances, rehabilitation problems leading to litigations, geological surprises in case of hydro projects, non-availability of gas etc.

Figure 1.6
Targets/Achievements for Capacity Addition in Various Five Year Plans (in MW)

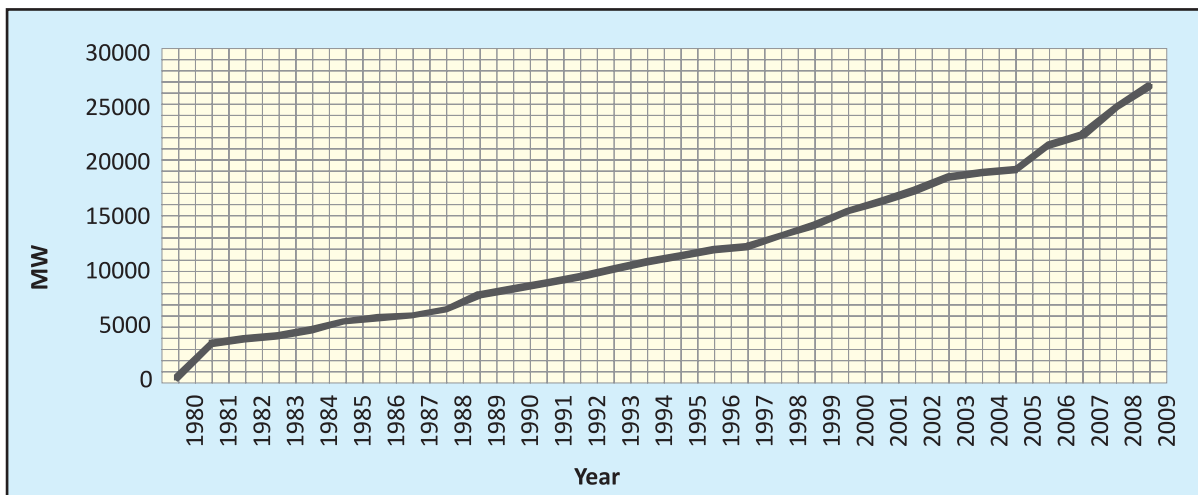


Source : Central Electricity Authority

Note: Figures for Eleventh Plan are only for the period 2007-11

The immediate impact of the repeated shortfall in capacity has been the setting up of captive power plants by the industrial sector. The setting up of these plants had become imperative given the poor quality of power supply that the industry had to face. Given the nature of the industry in certain cases, like aluminium and steel where there is a need for a continuous source of supply, there was no escape but to set up captive power plants. The regime of high cross subsidies has encouraged the industrial sector to set up their own captive power plants. The industrial sector along with the commercial sector and the railways helped the utilities to recover a part of their losses they faced while supplying power to the domestic and the agricultural sectors. The three leading industries having their own captive generation as reported by the CEA as on 31st March 2009 were Iron & Steel (4161 MW), Chemicals (3418 MW) and Aluminium (2317 MW). Figure 1.7 gives an account of the growth of captive power plants in India:

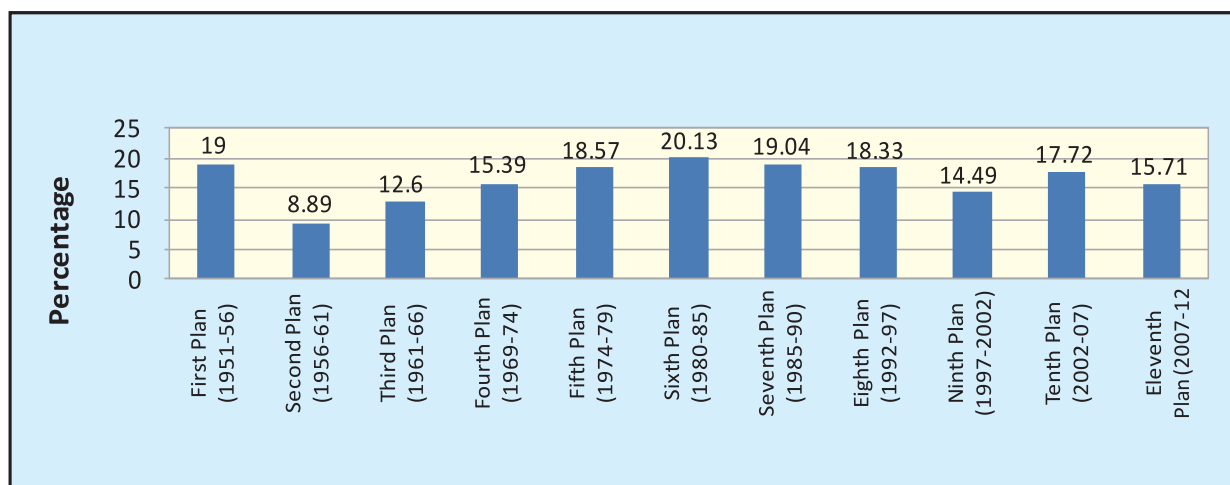
Figure 1.7
Growth of Captive Generation Capacity from 1980 to 2009 (MW)



Source: Central Electricity Authority

Shortfalls in capacity addition cannot really be attributed to not enough resources being allocated for the power sector. Right from the first Five Year Plan onwards, about 15 percent or more has been allocated for the power sector (Figure 1.8). Only in the Second and Third Five Year Plans, the allocation was relatively less. Even if we see the allocation in the State sectors, we find that the allocations for the power sector were generous. In fact, for a developing economy like India with so many problems in social sectors, like health and education, allocating about 15 percent of the Plan resources for one key infrastructure alone is quite creditworthy. The problem, therefore, was more in the delivery process in the system.

Figure 1.8
Percentage outlay of Plan funds allocated to Power Sector



Source: Planning Commission: A Statistical Profile

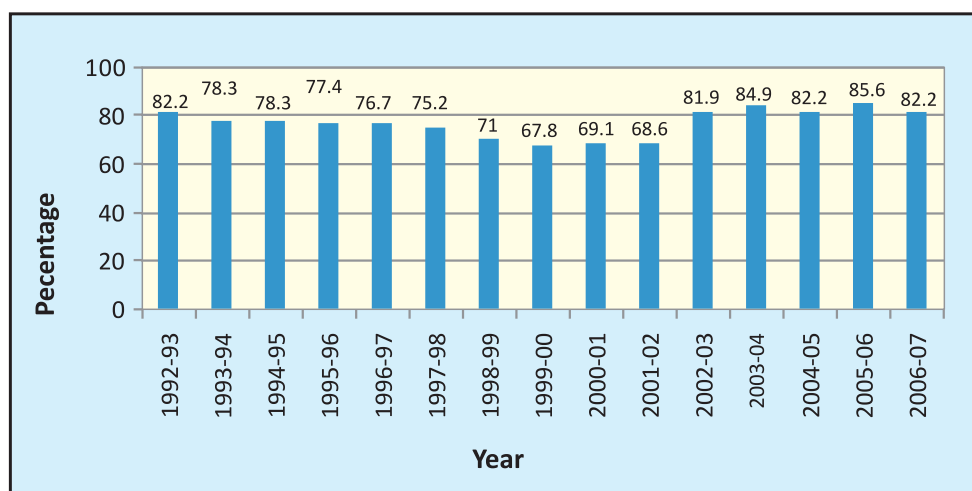
1.5 PERFORMANCE OF THE STATE ELECTRICITY BOARDS (SEBS)

Though the SEBs were expected to give a rate of return of 3% on their net assets in accordance with the provisions of the VI Schedule of the Electric Supply Act 1948, there was trouble right from the very beginning. While the policy makers while debating on the Electricity Bill 1946 had envisaged that the Boards would be professionally run by competent personnel, whose work would not be interfered with, nothing of that sort happened. The SEBs virtually functioned as extension of the Government department in charge of power. The finances of the SEB had started causing concern by the mid-fifties itself. The Venkataraman Committee which reported in 1964 found that the return on their investments was poor. The Committee, however, did concede that a part of the poor returns was on account of the fact that the SEBs had the responsibility of electrifying the rural areas as well where both, expenditure and losses were high. One factor which merits special mention is the onset of green revolution in India around the mid-sixties which had a direct bearing on the financial performance of the SEBs. The Green revolution required high doses of inputs of fertilizers and water. In some states, green revolution allowed for two to three crops in a year and profits in the agriculture sector jumped manifold. This translated into vote banks and this started the process of a close correlation between the power sector and politics. The political decision to provide free or subsidized electricity in many states completely destroyed the financial position of the SEBs. Subsidies which were announced by the State Governments were not necessarily paid. Announcement of subsidies was done purely to garner votes during elections. Farmers were offered electricity at flat rates based on pump capacity rather than by extent of use measured through a meter. This according to many had several negative effects, for example, the World Bank estimated that the SEBs paid an annual subsidy of about \$4.6 billion (1.5 percent of GDP) to agricultural and residential users. Payment at a flat rate for agricultural purposes, led to “de-meterisation”. It also had a negative spill over effect on the overall management practices of the SEBs. It is frequently reported that the subsidies were actually cornered by the well-off farmers who had the resources to invest in irrigation infrastructure. The irony, however, is that the farming community in general was willing to pay the required tariff for receiving good quality power. The SEBs started attributing all losses to agriculture as it could not be measured. It is estimated that about 30 to 40 percent of the consumption shown against the agricultural sector is an overestimate. This means that losses even in industry, which was happening on account of a nexus between the ground staff of the SEBs and the errant consumers, were being put on the account of agriculture since the agriculture sector had no meters or had defective meters.

Over time, the performance of the SEBs went from bad to worse. The return on assets has become negative for most of the SEBs. The poor financial performance stems from many factors. To begin with, there is a very high degree of commercial losses, meaning theft. Theft can be of various types. It can be of the form of direct tapping from distribution lines and it can also mean tampering with the meter. The net result is

that the consumer does not pay for the electricity he consumes. To make things worse, the tariff that is set is not determined on the basis of any economic rationale but on political expediency. No political party would like to increase tariffs for fear of loss of vote banks and as a result, power subsidies kept on rising to astronomical levels. The regime of cross subsidy became more and more stringent whereby the commercial and the industrial sector along with railway traction made up for a part of the revenue lost through sale of electricity to the agricultural and domestic sectors. It may be added that over time, the revenue earned through cross subsidy could finance smaller and smaller portions of the total subsidy requirements. This led to a steep rise in electricity price for the industrial sector which harmed them since they slowly became uncompetitive. It also encouraged the industrial sector to set up their own captive plants and free themselves from the stranglehold of the SEBs. The losses of the SEBs deteriorated further since quite often the Government did not pay their dues. The following table indicates how the tariffs progressively recovered smaller and smaller portions of the cost of supply. There is a clear disconnect in the data from 2002-03 onwards since the data from 2002-03 is being collected by the Power Finance Corporation (PFC). Prior to this, it was being collected by the Planning Commission. The PFC was collecting information on the basis of audited accounts of the utilities whereas the Planning Commission was collecting the data on the basis of the resource plan of the state. Divergence between the data, therefore, was inevitable.

Figure 1.9
Recovery as a Percentage of Cost



Source: Planning Commission and Power Finance Corporation

There were no investments made for improving the infrastructure, especially distribution, which was slowly getting outdated and out of sync with the growing demand. The depreciation fund which was set up in accordance with the VIth Schedule of the Electricity Supply Act 1948 proved to be inadequate as prices of plant have raised manifold. There were very little

investments made in generation sector since the internal resource position was very poor. This led to a poor capacity addition program. Interestingly, though there was inadequate capacity, there were periods of underutilization of the existing capacity primarily because of poor technical efficiency. The SEBs were treated as centres of patronage and jobs were doled out to people close to the power centre. The employment levels were thus way above norms. Not only were the SEBs overstaffed, it was an undisciplined force. The number of employees per million units of energy sold in India in 1990-91 was about 5 while it was 0.2 in Chile, Norway and the US. Theft and pilferage of equipment and wires lying in the stores was rampant. Service to consumers was downright unacceptable with long waiting lists for new connections coupled with high corruption. Service to consumers in case of outages was pathetic, especially in rural areas.

By the early 1990s, the position of the SEBs was so critical that it became absolutely unsustainable. It was clear that some form of financial discipline had to be enforced immediately but the SEBs had no financial might left in them to rectify the situation.

POWER SECTOR REFORMS IN INDIA

1.6 THE FIRST PHASE

The Indian power sector had reached the absolute dead-end by the 1980s. The total losses of the SEBs without subsidy had crossed Rs. 3000 crore. There was little hope of any cure unless some drastic measures were taken. The sector was facing peaking shortages in various parts of the country and severe financial burden was imposed on the State Governments because of the performance of the SEBs. In 1989, the World Bank had stated that request from the electricity sector from developing countries added upto \$ 100 billion and only about \$ 20 billion was available from multilateral sources. The message was that not much of funding would be available from the World Bank. Furthermore, there were no surpluses left within the sector for investment purposes.

However, nothing really happened till 1991 when the existing electricity laws were amended to provide for private participation in generation. Specifically, the Electricity Laws (Amendment) Act of 1991 was enacted to encourage the entry of privately owned generators. The change in policy coincided with the fact that India was facing its worst ever balance-of-payments crisis and was on the verge of defaulting which would have reduced India's bond rating in international credit markets. Further amendments were carried out in 1998 when the transmission sector was also opened for private investments subject to the approval of the Central Transmission Utility (CTU). It was the Government's view point that if additional generation capacity could be created with the assistance of the private sector, the malaise could be rectified. In order to encourage private sector participation, several other policy measures were also undertaken. The private investors were offered a guaranteed 16 percent return in equity with a full five year tax holiday. The required

debt-equity ratio was also kept at 4:1. These projects were also given sovereign guarantees and escrow benefits in case there were defaults on part of the SEBs. By 1995, there were about 189 offers to increase capacity by over 75 GW involving a total investment of over US \$ 100 billion. Eight projects were brought on the “fast-track” route where Government approvals were quickly expedited. Escrow, however, could not be granted to all projects as there clearly was a limit, given the revenue stream of the SEBs. In fact, some of the banks like the State Bank of India, which gave overdraft facilities to the SEBs, refused to lift its lien on the receivables of the SEBs. The IPPs faced all kind of problems, right from securing coal contracts to getting wagons from the railways for movement of their coal. There were other reasons also as to why this Policy failed, for example, litigation in case of some projects, inability to secure funding from financial institutions since power projects required long pay-back periods etc. The private investors also realised that by providing incentives for additional capacity addition, the basic problem that is the bankruptcy of the SEBS does not get addressed. In fact, the problems would multiply as power from the new plants, if they do come up ultimately, would be a lot more expensive than the existing plants of the SEBs. Some economists have stated that the energy cost from these projects frequently turned out to be one-and-a-half to two times more than that of comparable NTPC and SEB projects. The high tariff was because of assured high PLF, high return on equity, high capital cost of plants, high variable costs due to management fee, testing fee, insurance charges etc.

In the meantime some kind of political consensus was taking shape regarding reforms in the power sector. It began in 1991 when a Committee was set up for the establishment of a common minimum agricultural tariff. The matter gained momentum when in 1996, the Chief Ministers conference proposed that agriculture tariffs should be at least 50 paise per unit which should be increased to at least 50 per cent of the average cost of supply within a period of 3 years. It is another matter, however, that no state implemented it. It may be pertinent to add that the Indian agricultural community in fact was prepared to higher tariffs in exchange for a better quality of power. The small farmers, in any case, maintained that low agricultural tariffs only helped the big farmers who had access to power driven irrigation facilities. There is one study which states that the agricultural community was, in fact, capable of paying higher tariffs and gain by the incremental productivity.

1.7 THE WORLD BANK AND REFORMS

During the 1980s and early 1990s, the World Bank lending had been influenced by what is known as the ‘Washington consensus’. According to this, the development processes were hindered less by capital shortages, and more by economic policies that hindered market forces. The Bank, therefore, began approaching privatisation as a serious policy option. The World Bank, incidentally, had assisted various power sector projects, especially at the time the NTPC was set up in 1974. It is felt that the World Bank was interested in the creation of the NTPC because the Bank felt that their loans were better assured as the

NTPC projects were expected to be better managed as compared to SEB projects. Over time, however, the World Bank was desirous of moving away from generation because of environmental issues. Since coal was the primary fuel for power generation which gave rise to environmental de-gradation, the Bank wanted to support projects which envisaged restructuring of the sector, namely reforms. Of course, from this point of view, hydro projects were welcome. Orissa was the first State to get assistance from the World Bank for restructuring. In Orissa, the generating plants were running at 36 percent PLF in 1993-94, transmission and distribution losses were at 43 percent and the proportion of bills collected was only 17 percent. The entire Orissa project was in three parts and the total cost of the project was US \$ 997.2 million. The World Bank provided \$ 350 million and the Overseas Development Agency of the UK provided \$ 110 million. There were reasons as to how it all started in Orissa. It is said that the World Bank was already negotiating a loan for the development of a hydro project. Assistance for the project was linked to reforms in the sector, leaving the State Government with no other alternative. Further, Orissa was ideally suited for reforms because its agricultural share in sales was only 6 per cent (compared to 40 percent in some other states) which meant that there was no lobby which could derail the reform process. Typically, the “Orissa Model” as it came to be called involved restructuring of the monolithic SEB into separate generation, transmission and distribution sub-sectors. Specifically, the distribution segment of the Orissa State Electricity Board (OESB) was divided into four regional utilities and later on privatised. The transmission assets remained under public ownership with the Grid Corporation of Orissa (GRIDCO). The existing hydro generation assets were vested with the Orissa Hydro Power Corporation (OHPC) and the thermal capacity of the OSEB had to be transferred to the NTPC to settle the dues of the OSEB with the NTPC. This restructuring was made possible through the Orissa Electricity Reforms Act 1995.

1.8 THE SECOND PHASE OF REFORMS - ELECTRICITY REGULATORY COMMISSIONS ACT 1998

While Orissa was the first state to enact their own reforms act, it was followed by other states like Haryana (1997), Andhra Pradesh (1998), Uttar Pradesh (1999), Karnataka (1999), Rajasthan (1999), Delhi (2000), Madhya Pradesh (2000) and Gujarat (2003). Each of these states, after passing their reforms act, unbundled their SEBs into separate entities of generation, transmission and distribution. The only difference was in the case of Orissa and Delhi which went a step further and privatised their distribution sector as well. In the meantime around the mid-1990s, the Government of India too had come to realise that the distribution sector will have to be addressed first and if the problems in the distribution sector can be addressed, investments in the generation sector will automatically flow. The Government of India therefore passed an Ordinance which later culminated as the Electricity Regulatory Commissions Act 1998. It was similar to the Orissa Reforms Act and it paved the way for setting up of the Central Electricity Regulatory Commission. The states could also rely on this Act to set up their own

State commissions or enact their own legislations for this purpose. The functions of the CERC and the SERCs were clearly demarcated. While the CERC was responsible for all Centrally owned stations and other stations having an inter-state role, the SERCs were responsible for stations within their own state only. The primary intention for setting up of regulatory commissions was to ensure that tariffs were determined according to economic principles and that the entire process be free from any political interference. The role of the Government was only that of a facilitator and catalyst which would lay down broad principles of policy.

The enactment of the Electricity Regulatory Commissions Act 1998 was only a partial step towards reforms. The Government of India had been mulling over a comprehensive reform act which would repeal all other existing electricity laws. The first draft of the Bill was made in 2000 though there were some other steps taken by the Government during this time period to improve the functioning of the distribution sector. Three major steps were taken by the Government for improving the performance of the power sector. The first was the initiation of the Accelerated Power Development Program (APDP) in 2000-01 which focussed on giving a composite loan/grant for improving the infrastructure of the electricity utilities. In 2002-03, under the recommendations of the Deepak Parikh Committee, the structure of the scheme was changed and an incentive component was added as well. The name of the scheme was changed to the Accelerated Power Development and Reforms Program (APDRP) and the funding was made extremely liberal.

The second major step taken was the constitution of the Expert Committee for making recommendations for one-time settlement of outstanding dues of all SEBs towards central public sector undertakings and for suggesting a strategy for capital restructuring of the SEBs. This committee was chaired by Sh.Montek Singh Ahluwalia, the then Member (Energy), Planning Commission. The committee recommended that 50 percent of the surcharge/interest on delayed payments be waived. The rest of the dues along with full principal amount aggregating to about Rs. 33,600 crore be securised through bonds issued by the respective state Governments. The bonds were to be issued through the RBI at a tax-free interest rate of 8.5 percent per annum.

The third initiative taken by the Government was to sign Memorandum of Understanding (MOU) with the State governments with the intention of accelerating the process of reforms. The state governments were encouraged to set up their own electricity regulatory commissions, undertake 100 percent metering, conduct energy audits at 11 KV level, impose minimum agricultural tariff as decided in the Chief Ministers' Conference, pay subsidies on time etc. In return, the Central government promised to increase the share of the State concerned from central generating stations, upgrade the inter-state transmission lines through APDRP funding, extend help for the State's rural electrification program and provide other financial benefits. By 2005, the Central Government had signed MOUs with all of India's 28 states.

1.9 THE ELECTRICITY ACT 2003

The Electricity Act (EA) 2003 came into being in June 2003. This Act repealed all the existing electricity laws, such as, the Indian Electricity Act 1910, the Electricity Supply Act 1948 etc. but saved the various reform acts of some of the states which were already in operation. The preamble of the EA2003 states the following:

‘An Act to consolidate the laws relating to generation, transmission, distribution, trading and use of electricity and generally for taking measures conducive to development of electricity industry, promoting competition therein, protecting interest of consumers and supply of electricity of all areas, rationalisation of electricity tariff, ensuring transparent policies regarding subsidies, promotion of efficient and environmentally benign policies, constitution of Central Electricity Authority, Regulatory Commissions and establishment of Appellate Tribunal and for matters connected therewith or incidental thereto’

The primary objective of the EA 2003 has been to promote competition in order to enable the consumers to have the best possible price and quality of supply. In order to have competition, one needs a large number of sellers and buyers and this is exactly what the EA 2003 has attempted through its various provisions. Before speaking of the various provision to promote competition, one of the most crucial (and debateable) statute needs to be mentioned i.e. Restructuring of the existing SEBs in a time-bound manner. The EA 2003 mentions that all SEBs have to be unbundled into separate entities of generation, transmission and distribution (Section 131 and 172). The model to be adopted would be similar to the “World Bank’ model which had been followed by Orissa to begin with and thereafter, emulated by some other states. This type of model is also called the “the single buyer mode”. This directive of the EA 2003 has been criticised in many quarters where the opinion has been that restructuring need not be necessary and that vertical utilities have also done well in some cases in India and abroad. In order to enhance generation, licensing has been done away with completely except that techno-economic clearance would be required for hydro projects (Sections 7 and 8). Captive generation has been promoted and in fact, the definition for captive has been kept very wide, making it easier for the industry to opt for captive power plants (section 9). Open access in distribution, to be introduced in a phased manner, has been recognised wherein a bulk consumer can access power from any other source provided certain technical constraints are met (Section 42). The EA 2003 also recognised the existence of two or more distribution licensees in the same geographical area, with the proviso that each will have its own set of wires (Section 14). This, however, is a debateable concept given the monopolistic nature of the wires business. On the issue of pricing, the provisions of the Sixth Schedule of the Electricity Supply Act 1948 has been done away with and the job of price determination has been

handed over to the regulatory commissions. The constitution of the state regulatory commissions was mandatory (Section 82). Power trading has been recognised as a distinct activity with the safeguard that regulatory commissions are authorised to fix ceilings on trading margins, if necessary (Sections 12, 79 and 86). For the benefit of consumers, certain institutions like the consumers redressal forum and their appellate body, the Ombudsman, has been envisaged (Section 42). There are other safeguards as far as the consumer is concerned with special emphasis on performance standards (Sections 57 to 59). At the same time, in order to plug revenue leaks, 100 percent metering has been made compulsory (Section 55) and provisions relating to theft of energy have been made very stringent (Sections 135 to 150).

1.10 UNBUNDLING OF SEBS

So what is the present structure of the power sector in India post Electricity Act 2003. Till very recently, the states of Bihar, Jharkhand, Punjab, Tamil Nadu, Meghalaya, Kerala and Himachal Pradesh are still having their SEBs functioning as vertically integrated utilities. Though the Electricity Act had given a time frame for unbundling with the caveat that it could be postponed in consultation with the Union government, these states had sought innumerable deferments. In addition to this, in some states the power sector is administered through a government department, for example, Jammu and Kashmir, Puducherry, Goa, Sikkim, Arunachal Pradesh, Manipur, Mizoram, Nagaland and Tripura. In all the other states, the SEBs have been unbundled into separate generation, transmission and distribution entities. Though the SEBs have been unbundled, the sector is still in public hands except in the case of Delhi and Orissa where the distribution sector has been privatised. In Delhi, while there are three private distribution utilities, in Orissa, there were four distribution utilities. The private utilities in Delhi came into being in July 2002 and in the case of Orissa, the private utilities have been functioning since 1999. Apart from these two states who have privatised their distribution sector, there are a few other private utilities which are functioning elsewhere in the country, for example, BSES and TATA Power in Mumbai, CESC in Kolkata, Torrent in Ahmedabad, and Noida Power in Noida etc. Wherever the SEBs have been unbundled, the primary structure was initially of a ‘single buyer model’ though the utilities were free to purchase power from other sources as well. The percentage of such transactions was a small fraction of what was being routed through the transmission company. Over time however, the states have reassigned the Power Purchase Agreements (PPAs) directly to the distribution companies concerned, leaving the transmission company as a pure ‘wire company’ only. As far as the regulatory commissions are concerned, as on 1st July 2011, 29 SERCs have been constituted out of which 23 are operational, meaning that they have issued their first tariff order. The states which were yet to issue tariff orders were Arunachal Pradesh, Goa, Sikkim, Nagaland, Manipur and Mizoram. A snapshot of what has been the progress of reforms

in the states when it comes to constitution of regulatory commissions or issuance of first tariff orders etc. at annexure of the chapter.

1.11 CHAPTER SCHEME

While the first chapter gives an overview of the power sector in India right from the beginning of the nineteenth century, further details are given in the following chapters. Chapter 2 primarily highlights the outlays that have been fixed for the power sector over successive Plan periods including what has been done in the states. In chapter 3, the physical parameters of the distribution utilities have been analysed, for example, what has been the growth in generation capacity, the PLF, the availability of the plants etc. Chapter 4 analyses the financial parameters of the distribution utilities like the cost of supply and its break-up amongst the different components, such as, power purchase, O&M costs etc. Chapter 4 also looks into the revenue realisation from different categories of consumers and inter-state comparisons have also been made.

		Status of Reforms & Restructuring in States - As on 1st July 2011											Annexure 1.1				
Milestones																	
1	SERC																
a	Constituted	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
b	Operationalisation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
c	Issuing Tariff Orders																
2	Unbundling / Corporatisation																
a	Unbundling/ Corporatisation - Implementation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
b	Privatisation of Distribution																
3	Distribution Reform																
a	Multi Year Tariff/ ARR Order issued	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
b	Open Access Regulations																
	Total																
	West Bengal		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Uttarakhand		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Uttar Pradesh		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Tripura		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Tamil Nadu		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Sikkim		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Rajasthan		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Punjab		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Orissa		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Nagaland		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Madhya Pradesh		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Maharashtra		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Mizoram		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Manipur		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Meghalaya		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Kerala		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Karnataka		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Jharkhand		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Jammu & Kashmir		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Himachal Pradesh		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Haryana		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Goa		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Gujrat		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Delhi		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Chattisgarh		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Bihar		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Assam		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Andhra Pradesh		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Arunachal Pradesh		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Note:

- *(i) Tripura Power Dept. is corporatised as Tripura State Electricity Corporation Ltd.
(ii) Tariff Order issued include any one Order issued since operationalisation.
**(iii) Steps have been initiated towards corporatisation/unbundling.

JERCs CONSTITUTED FOR :

- (1) Manipur & Mizoram ; (2) Joint Electricity Regulatory Commission for Union Territories & Goa

Chapter 2

Power Sector Outlay and General Issues

2.1 INTRODUCTION

This chapter reviews the total investment in the power sector, and presents the Plan outlays and expenditure in the sector, the power balance, and the elasticity of electricity generation and consumption with respect to the GDP.

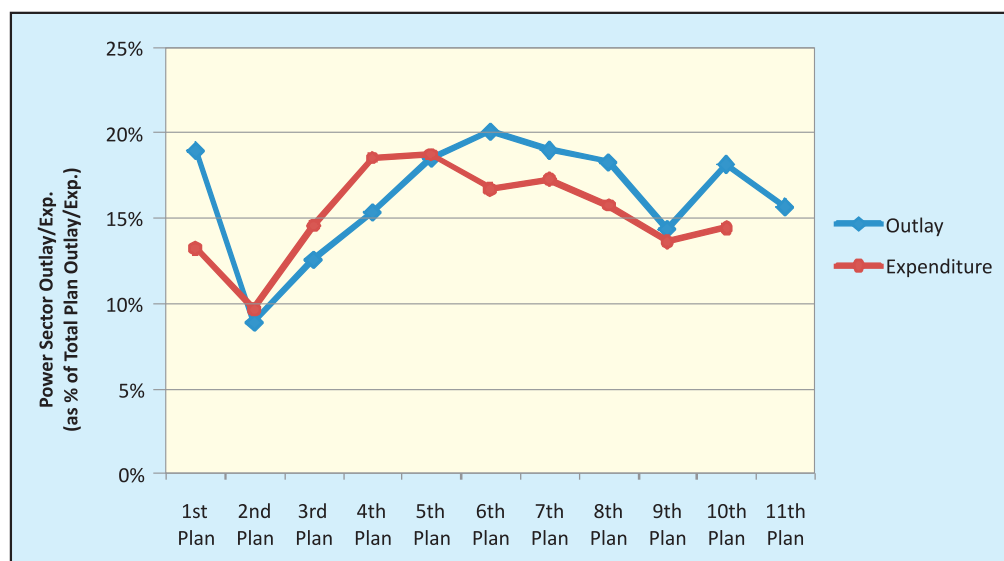
2.2 POWER SECTOR PLAN OUTLAY AND EXPENDITURE

Annexure 2.1 gives the outlays and expenditures in the power sector and the total outlay and expenditure since the First Five Year Plan for the country as a whole. The state-wise expenditure for the Seventh, Eighth, Ninth, and Tenth Plan is given in Annexure 2.2 to 2.5. Annexure 2.6 indicates the Plan allocations for power sector for the Eleventh Plan as well as the Annual Plans for the Eleventh Plan and Annexure-2.7 indicates actual expenditure in Annual plans for the eleventh Plan period. The Annexures also shows the share of Power Sector outlay in the total All Sector outlay.

2.3 PLAN-WISE TREND

Power is one of the key inputs required for a sustained economic growth. The Government has been allocating adequate outlays during all the Plan periods. With the exception of the

Figure 2.1
Power Sector Outlay/Expenditure as a percentage of Total Plan Outlay/Expenditure since the First Five Year Plan.



Second, Third and Ninth Five Year Plans, the share of Power Sector outlay in the Total Plan outlay has been more than 15% as indicated in Figure 2.1. As against this, the actual expenditure from the First Plan to the Tenth Plan has been in the range of 13-19% of the Total Plan expenditure. For example, the Power Sector expenditure for the Tenth Plan is 14.46% of the Total Plan expenditure as against a provision of 18.21% of the Total Plan outlay (Figure 2.1). The Power Sector outlay and expenditure in absolute terms is given in Table 2.1.

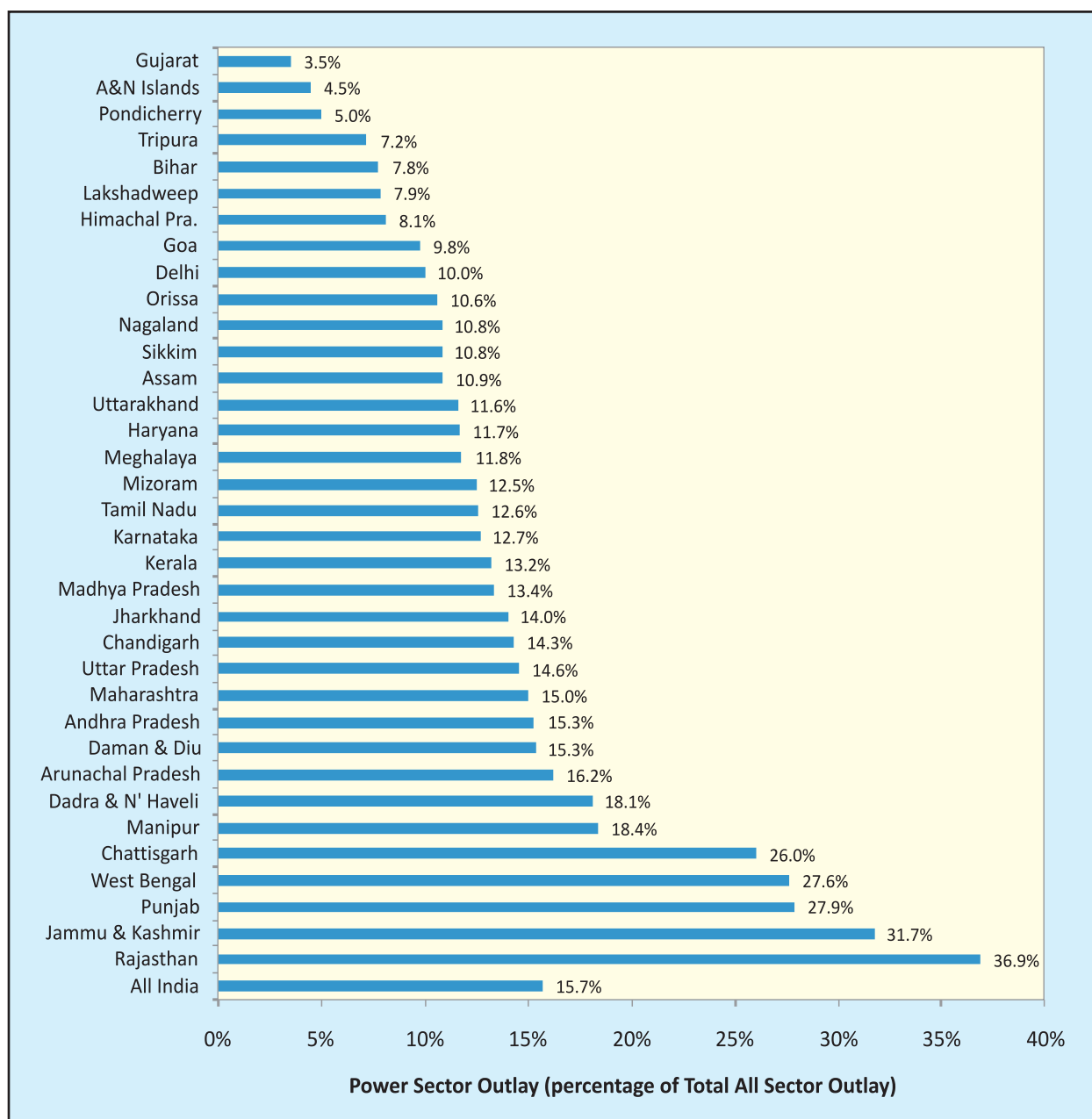
Table 2.1
Power Sector Outlay and Expenditure (Rs. crore) since the First Five Year Plan.

	Plan Outlay	Actual Expenditure
First Plan	393	260
Second Plan	427	445
Third Plan	1,020	1,252
Forth Plan	2,448	2,932
Fifth Plan	7,294	7,400
Sixth Plan	19,265	18,299
Seventh Plan	34,273	37,895
Eighth Plan	79,589	76,677
Ninth Plan	124,225	114,008
Tenth Plan	270,276	182,380
Eleventh Plan	572,648	NA

In the Eleventh Plan, though the allocation to the power sector has increased in absolute terms, its percentage share in the All Sector outlay has declined as compared to the Tenth Plan. While the allocation to Power Sector in the Eleventh Plan accounted for 15.71% of the total Plan outlay, the corresponding shares for the Annual Plans 2007-08, 2008-09, 2009-10, and 2010-11 has been 11.71%, 11.51%, 12.07% and 11.96%, respectively.

There is also an inter-state variation in the allocation of outlays to the power sector as shown in Figure 2.3 for the Eleventh Plan. The absolute values of outlays and expenditure for the states since the Seventh Plan are included in Annexure 2.2 to 2.7.

Figure 2.2
State-wise allocation of Power Sector Outlay as % of Total
All Sector Outlay for the Eleventh Plan.



2.4 POWER BALANCE

The total quantity of electricity available for sale in a state is its own generation net of auxiliary consumption plus net purchase minus T&D losses. Table 2.2 below gives the power balance from 2001-02 to 2008-09 for the whole country.

Table 2.2
Power Balance (Mkwh).

Year	Gross Generation	Auxiliary Consumption	Net Generation	Purchase from Outside*	T&D Losses	Total Consumption
2001-02	517,439	36,606	480,833	7,969	166,111	322,691
2006-07	670,654	43,577	627,077	11,931	183,043	455,965
2007-08	722,626	45,531	677,095	12,686	187,513	502,268
2008-09	741,167	47,404	93,763	14,181	180,322	527,622

*Purchases from Bhutan and Nepal

It is observed that during this period the auxiliary consumption has varied between 6.3% and 7.1% of the gross generation. In 2001-02, the auxiliary consumption was 7.1% of the gross generation, and it has improved to 6.4% in 2008-09. T&D losses were 34% of the total power available for sales in 2001-02. Since 2001-02, the T&D losses have reduced and were 25% of the total power available for sales in 2008-09.

2.5 ELASTICITY OF ELECTRICITY GENERATION AND CONSUMPTION W.R.T. GDP

Table 2.3 gives the Plan-wise elasticity of generation and consumption with respect to GDP from the First Plan to the Tenth Plan. The elasticity of electricity generation and consumption vis-à-vis GDP has declined over time after an increase till the Third Plan. The elasticity of electricity generation and consumption for the tenth Plan (2002-07) was 0.71 and 0.9, respectively. It implies that if the GDP increased by 1%, electricity generation and consumption increased by only 0.71% and 0.9% respectively, during 2002-07.

Table 2.3
Elasticity of Electricity Generation and Consumption w.r.t. GDP since the First Plan.

	Generation	Consumption
First Plan	3.06	3.14
Second Plan	3.45	3.38
Third Plan	5.11	5.04
Forth Plan	2.15	1.85
Fifth Plan	1.88	1.88
Sixth Plan	1.47	1.39
Seventh Plan	1.57	1.50
Eighth Plan	1.02	0.97
Ninth Plan	1.05	0.64
Tenth Plan	0.71	0.90

Annexure-2.1

PLANWISE OUTLAYS AND EXPENDITURE FOR POWER SECTOR

Plan Period	Outlays (Rs. Crore)		Col.2 as % of Col.3	Expenditure (Rs. Cr.)		Col.5 as % of Col.6
	Power Sector	All Sectors		Power Sector	All Sectors	
1	2	3	4	5	6	7
First Plan (1951-56)	393.44	2068.76	19.02	260.00	1960.00	13.27
Second Plan (1956-61)	426.87	4800.00	8.89	445.49	4600.00	9.68
Third Plan (1961-66)	1019.72	8094.53	12.60	1252.30	8576.50	14.60
Annual Plan (1966-69)	1063.96	6665.04	15.96	1212.50	6625.40	18.30
Fourth Plan (1969-74)	2447.57	15902.16	15.39	2931.70	15778.88	18.58
Fifth Plan (1974-79)	7293.90	39287.49	18.57	7399.50	39426.20	18.77
Annual plan (1979-80)	2395.99	12549.63	19.09	2240.50	12176.50	18.40
Sixth Plan (1980-85)	19265.44	95700.00	20.13	18298.68	109291.44	16.74
Seventh Plan (1985-90)	34273.46	180000.00	19.04	37895.30	218729.60	17.33
Annual PJan (1990-91)	12479.64	64716.88	19.28	13147.52	61421.00	21.41
Annual PJan (1991-92)	13678.31	72316.75	18.91	12463.31	64953.00	19.19
Eighth PJan (1992-97)	79589.32	434100.00	18.33	76677.38	485457.17	15.79
Ninth Plan (1997-2002)	124225.00	863200.00	14.39	114007.80	833808.11	13.67
Tenth Plan (2002-07)	270276.40	1484131.35	18.21	182380.02	1261017.48	14.46
Annual Plan (2002-03)	32756.50	247961.86	13.21	28093.44	213335.03	13.17
Annual Plan (2003-04)	34313.07	256042.68	13.40	32164.39	227160.05	14.16
Annual Plan (2004-05)	39027.90	287842.51	13.56	34287.42	263433.57	13.02
Annual Plan (2005-06)	46152.01	361239.38	12.78	38375.99	247177.08	15.53
Annual Plan (2006-07)	52771.74	441285.45	11.96	49458.78	309911.75	15.96
Eleventh Plan (2007-12)	572648.05	3644718.58	15.71	NA	NA	
Annual Plan (2007-08)	65431.06	558764.77	11.71	56894.80	371718.06	15.31
Annual Plan (2008-09)	78731.98	684288.01	11.51	71484.86	477243.04	14.98
Annual Plan (2009-10)	95928.92	794616.10	12.07	78772.25	717034.53	10.99
Annual Plan (2010-11)	112326.67	939186.84	11.96	97804.22	904203.83	10.82

**POWER SECTOR OUTLAY AND EXPENDITURE
(SEVENTH PLAN,1985-90)**

	(1)	Power Sector			All Sectors				
		Outlay	Expendi- ture	Col. (3) as % of Col. (2)	Outlay	Expendi- ture	Col.(6) as % of Col. (5)	Col.(2) as % of Col. (5)	Col. (3) as % of Col.(6)
		(Rs. cr.)	(Rs. cr.)		(Rs. cr.)	(Rs. cr.)			
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	I. SPU's								
1	Andhra Pradesh	1104.9	1117.4	101.1	5200.0	6043.6	116.2	21.3	18.49
2	Assam	485.0	610.2	125.8	2100.0	2489.6	118.6	23.1	24.51
3	Bihar	1065.0	1057.1	99.3	5100.0	6033.2	118.3	20.9	17.52
4	Delhi	364.3	832.2	228.4	2000.0	2631.5	131.6	18.2	31.62
5	Gujarat	1437.0	1437.8	100.1	6000.0	5439.2	90.7	24.0	26.43
6	Haryana	1010.3	645.4	63.9	2900.0	2538.9	87.6	34.8	25.42
7	Himachal Pradesh	260.1	347.5	133.6	1050.0	1326.3	126.3	24.8	26.2
8	Jammu & Kashmir	278.2	422.1	151.7	1400.0	2006.2	143.3	19.9	21.04
9	Karnataka	800.0	873.6	109.2	3500.0	3937.5	112.5	22.9	22.19
10	Kerala	396.8	373.2	94.0	2100.0	2299.2	109.5	18.9	16.23
11	Madhya Pradesh	2646.0	2091.0	79.0	7000.0	6574.3	93.9	37.8	31.81
12	Maharashtra	3048.9	2621.2	86.0	10500.0	10026.3	95.5	29.0	26.14
13	Meghalaya	70.0	122.0	174.2	440.0	539.0	122.5	15.9	22.62
14	Orissa	780.0	537.3	68.9	2700.0	3162.2	117.1	28.9	16.99
15	Punjab	1638.0	1991.1	121.6	3285.0	3547.2	108.0	49.9	56.13
16	Rajasthan	874.2	917.4	105.0	3000.0	3106.2	103.5	29.1	29.54
17	Tamil Nadu	2000.0	1768.2	88.4	5750.0	6236.2	108.5	34.8	28.35
18	Uttar Pradesh	3395.0	2763.1	81.4	10447.0	11268.9	107.9	32.5	24.52
19	West Bengal	1248.0	1244.9	99.8	4125.0	4463.8	108.2	30.3	27.89
	II. EDs								
1	Arunachal Pradesh	35.9	54.3	151.3	400.0	570.0	142.5	9.0	9.53
2	Goa	35.5	33.0	93.0	360.0	438.6	121.8	9.9	7.51
3	Manipur	36.0	50.2	139.5	430.0	501.2	116.6	8.4	10.01
4	Mizoram	27.8	62.2	223.7	260.0	363.9	140.0	10.7	17.09
5	Nagaland	33.5	28.6	85.3	400.0	467.8	117.0	8.4	6.1
6	Pondicherry	12.0	24.0	199.8	170.0	232.6	136.8	7.1	10.31
7	Sikkim	33.9	58.7	172.9	230.0	282.4	122.8	14.8	20.78
8	Tripura	46.0	79.7	173.3	440.0	700.2	159.1	10.5	11.39

Annexure 2.3

POWER SECTOR OUTLAY AND ACTUAL EXPENDITURE
(EIGHTH PLAN- 1992-97)

(Rs. Crore)

		Power Sector		Col (3) as % of Col (2)	All Sector		Col (6) as % of Col (5)	Col (2) as % of Col (5)	Col (3) as % of Col (6)
		Outlay	Expend.		Outlay	Expend.			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	I. SPUs								
1	Andhra Pradesh	3041	3547	117	10500	13433	128	29	26
2	Assam	1192	678	57	4662	4866	104	26	14
3	Bihar	2121	586	28	13000	5408	42	16	11
4	Delhi	1212	1541	127	4500	6201	138	27	25
5	Gujarat	2635	2503	95	11500	11551	100	23	22
6	Haryana	1702	1198	70	5700	4890	86	30	24
7	Himachal Pra.	500	629	126	2502	3498	140	20	18
8	Jammu & Kashmir	1175	1240	106	4000	4404	110	29	28
9	Karnataka	3025	2958	98	12300	15155	123	25	20
10	Kerala	1226	1617	132	5460	6952	127	22	23
11	Madhya Pradesh	3563	3701	104	11100	12218	110	32	30
12	Maharashtra	4573	5494	120	18520	25336	137	25	22
13	Meghalaya	166	53	32	1029	1070	104	16	5
14	Orissa	2638	1255	48	10000	6998	70	26	18
15	Punjab	2418	3347	138	6570	6831	104	37	49
16	Rajasthan	3200	3079	96	11500	11860	103	28	26
17	Tamil Nadu	3000	3103	103	10200	14023	137	29	22
18	Uttar Pradesh	6975	5423	78	21000	20394	97	33	27
19	West Bengal	3016	2865	95	9760	8368	86	31	34
	II. EDs								
1	Arunachal Pradesh	148	332	224	1155	1713	148	13	19
2	Goa	53	65	124	761	843	111	7	8
3	Manipur	185	185	100	979	1219	125	19	15
4	Mizoram	101	152	151	763	1062	139	13	14
5	Nagaland	59	94	159	844	826	98	7	11
6	Pondicherry	102	160	157	400	699	175	26	23
7	Sikkim	133	132	99	550	708	129	24	19
8	Tripura	117	160	137	1130	1377	122	10	12
9	A&N Islands	58	69	119	685	892	130	8	8
10	Chandigarh	55	46	83	400	433	108	14	11
11	Daman & Diu	7	16	210	65	98	151	11	16
12	Dadra & N' Haveli	5	19	379	80	127	158	6	15
13	Lakshadweep	6	7	107	120	140	117	5	5
	Total States & UTs	48408	46251	96	186235	193593	104	26	24
	Central Sector	31182	30426	98	247865	288930	117	13	11
	Total- All India	79589	76677	96	434100	485457	112	18	16

POWER SECTOR OUTLAY AND ACTUAL EXPENDITURE
(NINTH PLAN- 1997-2002)

		Power Sector		Col (3) as % of Col (2)	All Sector		Col (6) as % of Col (5)	Col (2) as % of Col (5)	Col (3) as % of Col (6)
		Outlay	Expend.		Outlay	Expend.			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	I. States								
1	Andhra Pradesh	5749	8316	144.6	25150	28432	113.0	22.9	29.2
2	Arunachal Pradesh	451	389	86.2	3570	2487	69.7	12.6	15.6
3	Assam	850	461	54.2	8984	7091	78.9	9.5	6.5
4	Bihar	2300	433	18.8	16680	9921	59.5	13.8	4.4
5	Chattisgarh		12			1831			0.6
6	Goa	129	135	104.5	1500	1390	92.6	8.6	9.7
7	Gujarat	4000	3807	95.2	28000	24658	88.1	14.3	15.4
8	Haryana	2648	1545	58.4	9310	7986	85.8	28.4	19.3
9	Himachal Pradesh	1020	1198	117.5	5700	7900	138.6	17.9	15.2
10	Jammu & Kashmir	2387	1421	59.5	9500	7543	79.4	25.1	18.8
11	Jharkhand		139			2024			6.9
12	Karnataka	3650	4375	119.9	23400	31127	133.0	15.6	14.1
13	Kerala	2531	2811	111.1	16100	14521	90.2	15.7	19.4
14	Madhya Pradesh	3464	2984	86.1	20075	16658	83.0	17.3	17.9
15	Maharashtra	5580	6962	124.8	36700	44656	121.7	15.2	15.6
16	Manipur	333	173	52.0	2427	1663	68.5	13.7	10.4
17	Meghalaya	312	169	54.3	2501	1825	73.0	12.5	9.3
18	Mizoram	222	192	86.5	1619	1720	106.3	13.7	11.1
19	Nagaland	115	98	85.1	2006	1502	74.9	5.7	6.5
20	Orissa	4623	1541	33.3	15000	12115	80.8	30.8	12.7
21	Punjab	2927	4014	137.1	11500	9816	85.4	25.5	40.9
22	Rajasthan	4489	5218	116.2	22526	19532	86.7	19.9	26.7
23	Sikkim	341	167	48.8	1600	1108	69.2	21.3	15.0
24	Tamil Nadu	6000	5154	85.9	25000	25036	100.1	24.0	20.6
25	Tripura	172	108	62.8	2577	2254	87.5	6.7	4.8
26	Uttar Pradesh	7468	4970	66.5	46340	30510	65.8	16.1	16.3
27	Uttarakhand		103			2550			4.0
28	West Bengal	5632	6039	107.2	16900	20453	121.0	33.3	29.5
	II. UTs								
1	A&N Islands	140	138	98.5	1535	1748	113.8	9.1	7.9
2	Chandigarh	86	58	67.4	685	710	103.6	12.5	8.2
3	Dadra & N' Haveli	48	55	113.7	205	220	107.4	23.6	25.0
4	Daman & Diu	30	53	178.8	165	176	106.8	18.0	30.2
5	Delhi	2985	3572	119.7	15541	13465	86.6	19.2	26.5
6	Lakshadweep	15	12	82.3	270	344	127.2	5.6	3.6
7	Pondicherry	230	161	70.3	1300	1448	111.4	17.7	11.1
	Total States & UTs	70926	66982	94.4	374366	356417	95.2	18.9	18.8
	Central Sector	53299	47026	88.2	492221	477391	97.0	10.8	9.9
	Total- All India	124225	114008	91.8	866587	833808	96.2	14.3	13.7

Annexure 2.5

POWER SECTOR OUTLAY AND ACTUAL EXPENDITURE
(TENTH PLAN- 2002-2007)

(Rs.Crore)

		Power Sector		Col (3) as % of Col (2)	All Sector		Col (6) as % of Col (5)	Col (2) as % of Col (5)	Col (3) as % of Col (6)
		Outlay	Expend.		Outlay	Expend.			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	I. States								
1	Andhra Pradesh	7139	7342	102.8	46614	62177	133.4	15.3	11.8
2	Arunachal Pradesh	491	507	103.1	3888	3460	89.0	12.6	14.6
3	Assam	835	735	88.0	8315	9302	111.9	10.0	7.9
4	Bihar	2720	2010	73.9	21000	21045	100.2	13.0	9.5
5	Chattisgarh	99	447		11000	15576			2.9
6	Goa	400	443	110.7	3200	3786	118.3	12.5	11.7
7	Gujarat	5958	5071	85.1	40007	45976	114.9	14.9	11.0
8	Haryana	1395	1989	142.5	10285	12980	126.2	13.6	15.3
9	Himachal Pradesh	1235	768	62.2	10300	8412	81.7	12.0	9.1
10	Jammu & Kashmir	2879	2874	99.8	14500	14217	98.0	19.9	20.2
11	Jharkhand	814	1044		14633	15522			6.7
12	Karnataka	2207	7247	328.4	43558	59659	137.0	5.1	12.1
13	Kerala	3425	2708	79.1	24000	19543	81.4	14.3	13.9
14	Madhya Pradesh	5504	6295	114.4	26190	34003	129.8	21.0	18.5
15	Maharashtra	10150	7659	75.5	66632	56100	84.2	15.2	13.7
16	Manipur	229	125	54.4	2804	2712	96.7	8.2	4.6
17	Meghalaya	501	530	105.8	3009	2924	97.2	16.7	18.1
18	Mizoram	193	310	160.6	2300	2917	126.8	8.4	10.6
19	Nagaland	248	202	81.4	2228	2652	119.0	11.1	7.6
20	Orissa	2859	1293	45.2	19000	14099	74.2	15.0	9.2
21	Punjab	5964	5154	86.4	18657	14885	79.8	32.0	34.6
22	Rajasthan	6674	10420	156.1	27318	33735	123.5	24.4	30.9
23	Sikkim	240	211	87.9	1656	2097	126.6	14.5	10.1
24	Tamil Nadu	8000	6956	87.0	40000	42676	106.7	20.0	16.3
25	Tripura	223	178	79.6	4500	3383	75.2	5.0	5.3
26	Uttar Pradesh	9082	5724	63.0	59708	54797	91.8	15.2	10.4
27	Uttarakhand	1847	1275		7630	11320			11.3
28	West Bengal	7846	6630	84.5	28641	22396	78.2	27.4	29.6
	II. UTs								
1	A&N Islands	194	118	60.7	2483	2211	89.0	7.8	5.3
2	Chandigarh	109	99	90.5	1000	966	96.6	10.9	10.2
3	Dadra & N' Haveli	78	62	80.1	304	306	100.8	25.5	20.3
4	Daman & Diu	51	70	136.1	245	266	108.5	20.9	26.2
5	Delhi	3456	4434	128.3	23000	22646	98.5	15.0	19.6
6	Lakshadweep	14	49	353.1	437	500	114.3	3.2	9.8
7	Pondicherry	165	161	97.8	1906	3447	180.8	8.7	4.7
	Total States & UTs	93226	91138	97.8	590948	622690	105.4	15.8	14.6
	Central Sector	177051	91242	51.5	893183	638327	71.5	19.8	14.3
	Total- All India	270276	182380	67.5	1484131	1261017	85.0	18.2	14.5

POWER SECTOR OUTLAY (ELEVENTH PLAN & ANNUAL PLANS)

(Rs. crore)

		Eleventh Plan (2007-2012)		2007-08		2008-09		2009-10		2010-11	
		Power Sector	All Sector	Power Sector	All Sector	Power Sector	All Sector	Power Sector	All Sector	Power Sector	All Sector
	1	2	3	4	5	6	7	8	9	10	11
	I. States										
1	Andhra Pradesh	22582	147395	257	30500	390	44000	170	33497	488	36800
2	Arunachal Pra.	1280	7901	85	1320	256	2265	218	2100	302	2500
3	Assam	2602	23954	398	3800	417	5012	173	6000	389	7645
4	Bihar	4718	60631	833	10200	774	13500	859	16000	1675	20000
5	Chattisgarh	13991	53730	91	7414	50	9599	197	10948	246	13230
6	Goa	830	8485	124	1430	142	1738	157	2240	180	2710
7	Gujarat	3767	106918	603	16000	814	21000	889	23500	1735	39462
8	Haryana	3902	33374	840	5300	862	6650	1392	10000	1663	18260
9	Himachal Pra.	1122	13778	154	2100	323	2400	351	2700	350	3000
10	Jammu & Kashmir	8197	25834	1017	4850	1096	5513	517	5500	435	6000
11	Jharkhand	5635	40240	903	6676	700	8015	725	8200	620	9240
12	Karnataka	12877	101664	2099	17783	2411	26189	3615	29500	3352	31050
13	Kerala	5548	41940	996	6950	914	7700	975	8920	995	10025
14	Madhya Pradesh	9416	70329	1540	12011	1620	14183	1339	16174	1652	19000
15	Maharashtra	19131	127538	1917	20200	1431	25000	2374	35959	2602	37916
16	Manipur	1499	8154	88	1374	120	1660	170	2000	130	2600
17	Meghalaya	1085	9185	331	1120	426	1500	550	2100	607	2230
18	Mizoram	691	5534	80	850	68	1000	69	1250	74	1500
19	Nagaland	647	5978	78	900	104	1200	74	1500	55	1500
20	Orissa	3432	32225	596	5105	750	7500	1874	9500	1452	11000
21	Punjab	8075	28923	1057	5111	2200	6210	2593	8600	3303	9150
22	Rajasthan	26442	71732	5107	11639	6197	14000	7483	17322	12434	24000
23	Sikkim	512	4720	54	691	71	852	48	1045	56	1175
24	Tamil Nadu	10743	85344	1011	14000	2162	16000	2526	17500	2722	20068
25	Tripura	636	8852	103	1220	98	1450	26	1680	65	1860
26	Uttar Pradesh	26371	181094	3176	25000	5371	35000	5627	39000	4301	42000
27	Uttarakhand	4966	42798	383	4379	500	4775	456	5801	413	6800
28	West Bengal	17630	63779	1628	9150	2049	11602	1881	14150	1544	17985
	II. UTs										
1	A&N Islands	184	4100	28	605	30	673	40	833	40	958
2	Chandigarh	305	2132	25	268	22	305	15	319	20	451
3	Dadra & N' Haveli	235	1300	16	79	32	150	19	156	28	196
4	Daman & Diu	138	900	10	72	25	150	22	154	22	169
5	Delhi	5489	54799	1250	9000	1016	10000	461	10000	111	11400
6	Lakshadweep	165	2100	22	222	17	264	18	297	12	322
7	Pondicherry	542	10787	44	1455	38	1750	149	2250	128	2500
	Total States & UTs	225385	1488148	26942	238773	33494	308803	38050	346695	44198	414703
	Central Sector	347263	2156571	38490	319992	45238	375485	57879	447921	67160	524484
	Total- All India	572648	3644719	65431	558765	78732	684288	95929	794616	111357	939187

Annexure 2.7

POWER SECTOR ACTUAL EXPENDITURE
(ELEVENTH PLAN & ANNUAL PLANS)

(Rs. crore)

1	2	2007-08 Actual		2008-09 Actual		2009-10 Actual		2010-11 RE	
		Power Sector	All Sector	Power Sector	All Sector	Power Sector	All Sector	Power Sector	All Sector
1	2	3	4	5	6	7	8	9	10
	I. States								
1	Andhra Pradesh	46	27171	18	30618	28	29391	29	32249
2	Arunachal Pra.	119	1083	220	1739	355	2016	302	2500
3	Assam	355	2669	316	3594	165	5023	389	7645
4	Bihar	270	9652	565	12511	845	14184	1675	20341
5	Chattisgarh	111	7341	113	8137	162	10281	246	12682
6	Goa	130	1224	186	1574	200	1966	180	2710
7	Gujarat	608	15651	802	21764	949	22634	1735	29873
8	Haryana	851	5751	858	7108	1022	9624	1663	18848
9	Himachal Pra.	110	2098	196	2279	213	2808	350	3000
10	Jammu & Kashmir	668	4403	1019	4827	510	5279	435	6000
11	Jharkhand	477	5706	300	6866	532	6529	563	9290
12	Karnataka	2051	17227	3266	22118	3542	25967	3352	31000
13	Kerala	548	3700	799	6237	721	7774	995	10025
14	Madhya Pradesh	1186	12047	1463	13081	1573	14610	1635	19000
15	Maharashtra	1398	19422	1328	22870	2279	27731	2602	37916
16	Manipur	142	1337	78	1522	150	1784	130	2600
17	Meghalaya	234	984	384	1387	332	1418	607	2230
18	Mizoram	68	767	50	823	102	1067	74	1500
19	Nagaland	43	846	111	1097	81	1428	55	1500
20	Orissa	330	6033	376	7572	246	7728	1452	11000
21	Punjab	1536	5024	1926	6925	1267	4974	3300	9150
22	Rajasthan	5692	13795	6045	14923	7763	18023	12433	24000
23	Sikkim	39	607	101	1140	86	1019	56	1175
24	Tamil Nadu	2292	14224	2516	16246	2528	17834	2722	20068
25	Tripura	68	1067	68	1431	89	1736	65	1860
26	Uttar Pradesh	4553	24297	5996	34288	5954	37212	4301	42000
27	Uttarakhand	394	3945	233	3654	383	3514	413	6800
28	West Bengal	1734	8858	1594	10397	1483	12122	1544	17985
	II. UTs								
1	A&N Islands	29	607	42	694	36	882	39	867
2	Chandigarh	26	321	34	489	10	449	20	451
3	Dadra & N' Haveli	23	100	15	111	42	189	28	196
4	Daman & Diu	12	88	14	105	22	165	23	180
5	Delhi	1258	8748	569	9620	339	11048	256	11400
6	Lakshadweep	23	220	24	269	8	266	15	322
7	Pondicherry	45	1087	45	1061	60	1450	128	2500
	Total States & UTs	27468	228101	31667	279076	34078	310123	43808	400862
	Central Sector	29427	143617	39818	198167	44695	406912	53652	502250
	Total- All India	56895	371718	71485	477243	78772	717035	97460	903112

Chapter 3

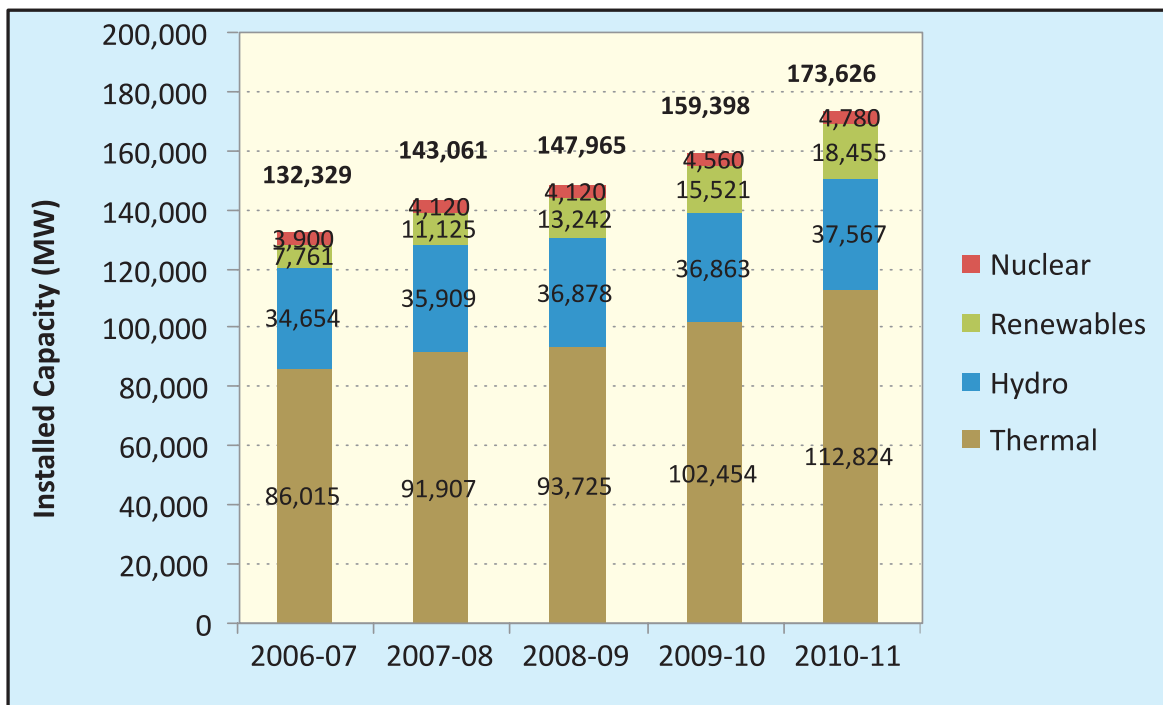
Physical Performance

This Chapter reviews the physical performance of the various utilities during the period 2006-07 to 2010-11. The parameters which have been analysed include installed capacity generation, auxiliary consumption, T&D losses, share of purchase in total sales, share of different sectors in total sales etc.

3.1 INSTALLED GENERATION CAPACITY

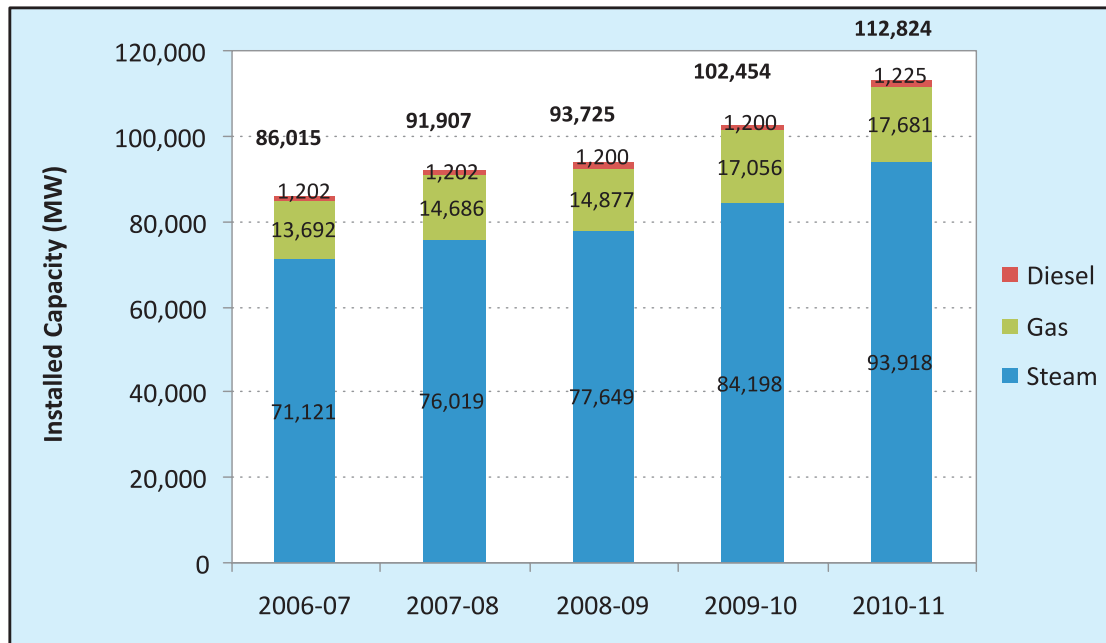
The total installed capacity in the Power Sector increased from 1,32,327 MW in 2006-07 to 1,73,626 MW by 2010-11 (Figure 3.1). This indicates an average annual growth rate of 7.8 percent.

Figure 3.1
Installed Generation Capacity (MW) from 2006-07 to 2010-11.



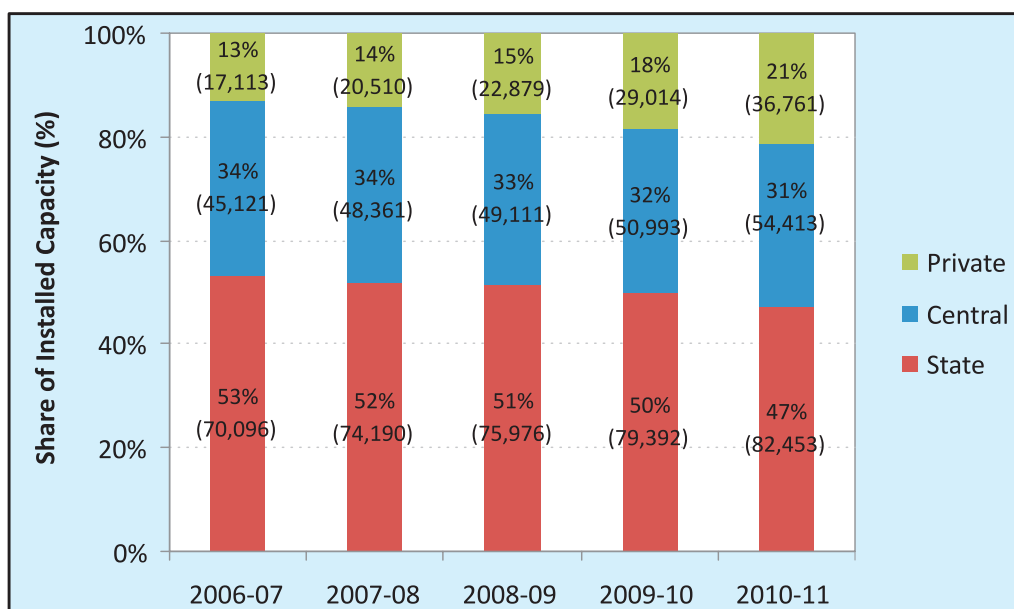
The major share in installed capacity is of the thermal sector (about 65% in 2010-11), and within the thermal sector, coal has been the dominant input fuel accounting for about 83 percent of thermal power capacity. The corresponding share of diesel and gas has been approximately 1 percent and 16 percent, respectively (Figure 3.2).

Figure 3.2
Installed Thermal Generation Capacity (MW) from 2006-07 to 2010-11



As far as ownership of the installed capacity is concerned, the state sector continues to be the largest owner with 47 percent share in 2010-11 though there is a clear and steady shift in ownership pattern in favour of the private sector since 2006-07. During the five year period under reference, its share has steadily increased from 13 percent to 21 percent (Figure 3.3).

Figure 3.3
Sector wise ownership pattern of installed generation capacity from 2006-07 to 2010-11



As far as the 11th Plan targets/achievements are concerned, the original 11th Plan target was 78,700 MW which was scaled down to 62,374 MW during the mid-term review. The actual achievement during the first four years of the 11th Plan are indicated below (Table 3.1):

Table 3.1
Plan Targets and Achievements during the Eleventh Plan (MW)

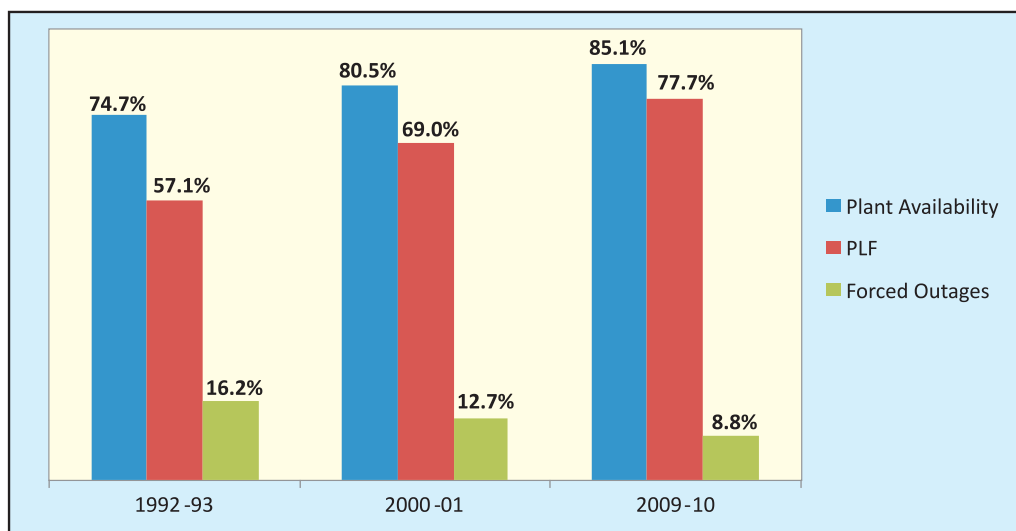
	Original Target	Revised Target	2007-08	2008-09	2009-10	2010-11
Centre	36,874	21,222	3,240	750	2,180	4,280
State	26,783	21,355	5,273	1,821	3,118	2,759
Private	15,043	19,797	750	883	4,287	5,121
Total	78,700	62,374	9,263	3,454	9,585	12,160
Hydro	15,627	8,237	2,423	969	39	690
Thermal	59,693	50,757	6,620	2,485	9,106	11,251
Nuclear	3,380	3,380	220	NIL	440	220
Total	78,700	62,374	9,263	3,454	9,585	12,161

3.2 PLANT AVAILABILITY, PLANT LOAD FACTOR (PLF) AND FORCED OUTAGES

For about a decade during 1992-93 to 2000-2001, the Plant availability factor increased from 74.69 percent to 80.5 percent. During this time period, the average PLF also increased from about 57 percent to about 70 percent. Since then, there has been further improvement in both, plant availability and PLF. By 2009-10, the plant availability increased to about 85 percent on All India basis whereas the PLF reached about 77 percent. Similar improvement has also been seen in respect of forced outages of thermal stations, where in the year 1992-93, it was about 16 percent, and it has come down to about 8.8 percent by the year 2009-10 (Figure 3.4).

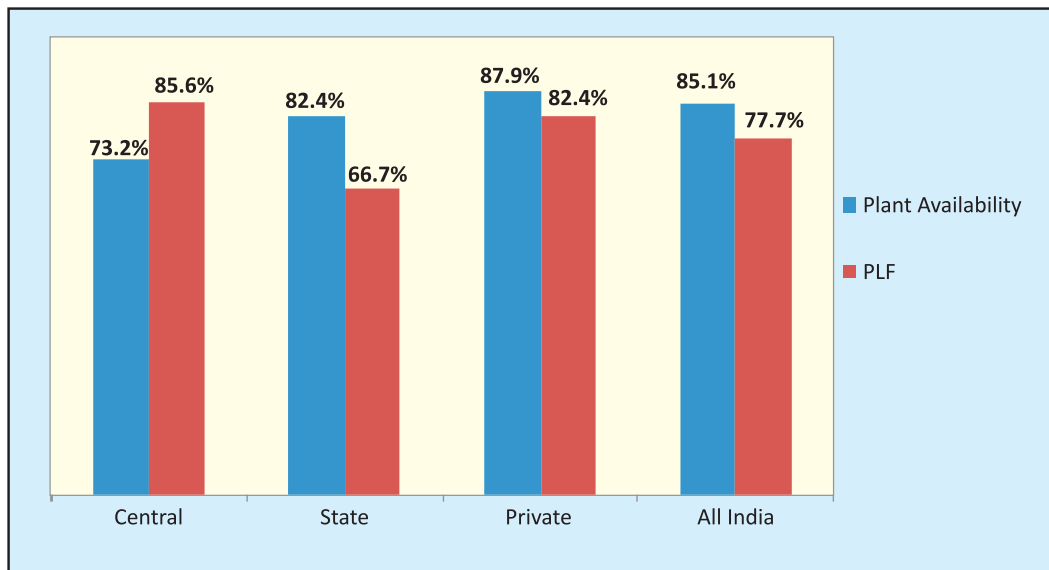
Figure 3.4

Plant Availability, PLF and Forced Outages for 1992-93, 2001-02 and 2009-10 (in percentage)



From the data pertaining to the year 2009-10, it can be seen that operating availability was the best for private sector utilities at 87.9 percent followed by the State sector at 82.4 percent and the corresponding figure in the central sector was 73.2 percent (Figure 3.5). Similarly for 2009-10, the highest PLF was for the central sector at 85.6 percent followed by private sector at 82.4 percent and thereafter, the State Sector at 66.7 percent.

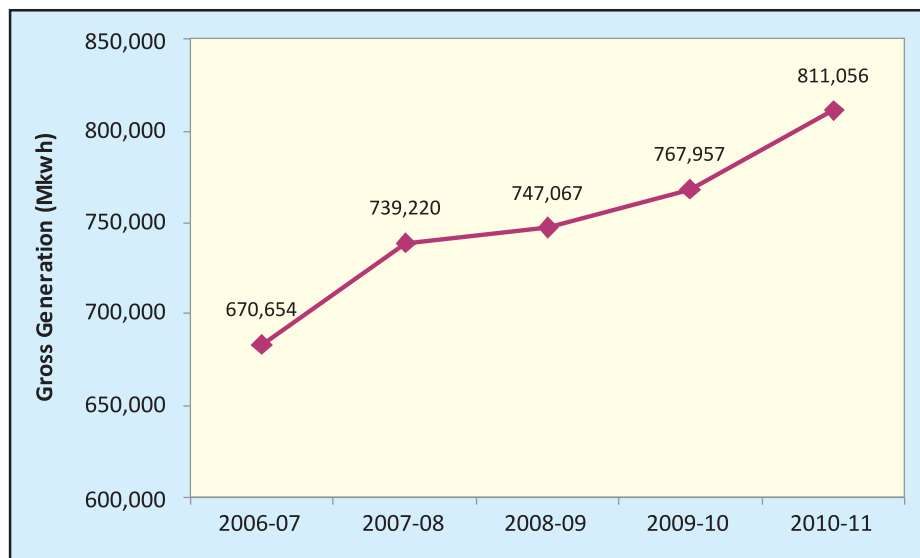
Figure 3.5
Plant Availability and PLF for Different Sectors for 2009-10



3.3 GENERATION AND SALES

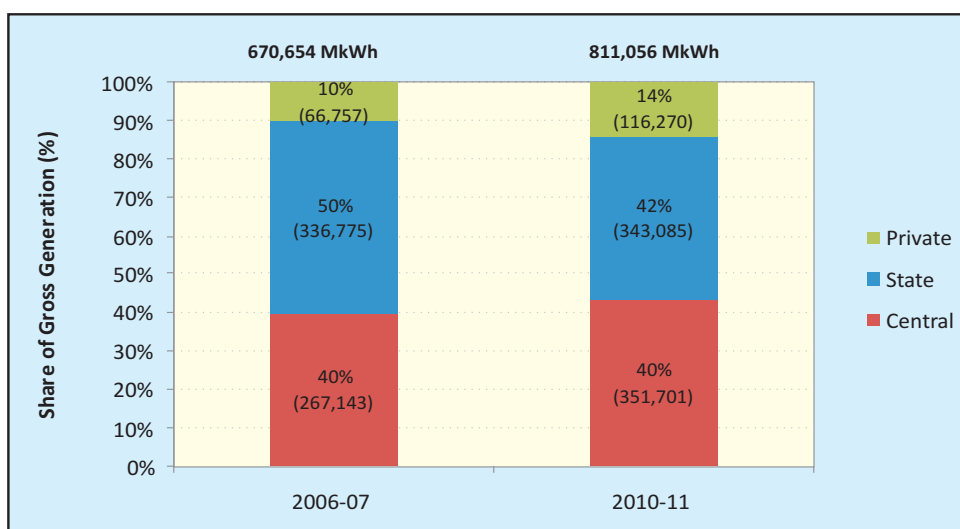
Gross generation has increased from about 670 billion units in 2006-07 to about 811 billion units in 2010-11, recording an annual average growth of 5.3 percent (Figure 3.6).

Figure 3.6
Gross Generation (MkWh) from 2006-07 to 2010-11



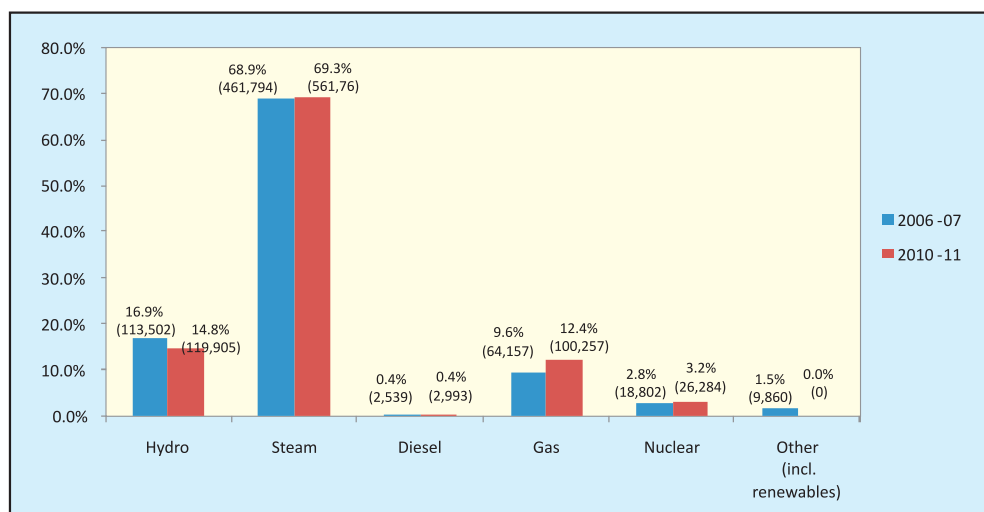
Between 2006-07 and 2010-11, there has been a clear shift in the relative contributions of different sectors in the gross power generation in the country. The nine percent fall in the share of the state sector was matched by a five percent increase in the central share and four percent increase in the share of the private sector. The details in this regard are presented in Figure 3.7 below:

Figure 3.7
Share of Ownership of Gross Generation in 2006-07 and 2010-11



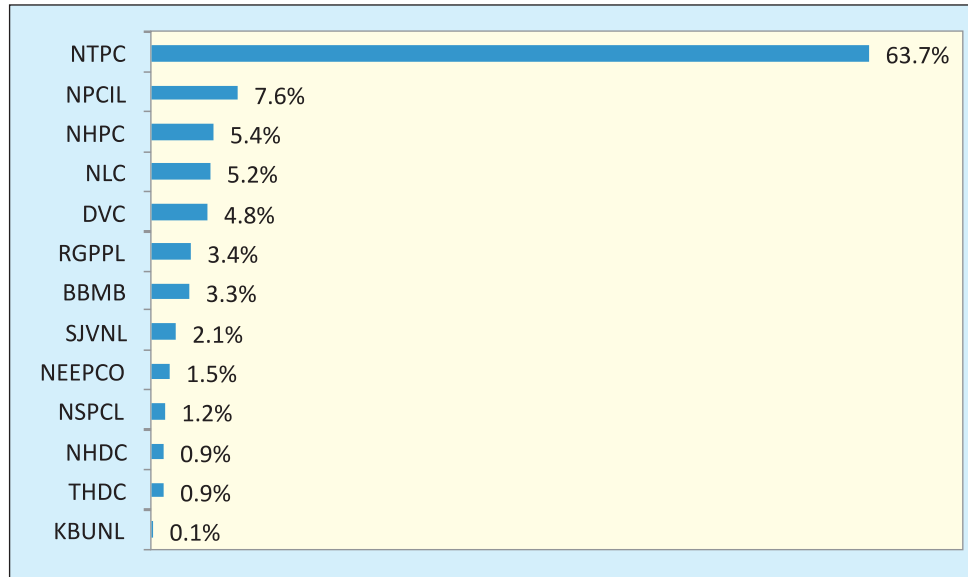
Thermal sources accounted for about 82 percent of the total power generated in the country during 2010-11. Generation through steam i.e. coal and lignite continued to be the dominant source of power generation in the country during 2006-07 and 2010-11 periods. Its share remaining unchanged at about 69 percent in these two years. The share of gas increased from about 9.6 percent in 2006-07 to 12.4 percent in 2010-11 while that of diesel remained unchanged at about 0.4 percent. The details of mode-wise share in power generation are given in Figure 3.8 below:

Figure 3.8
Source wise share in Total Generation in 2006-07 and 2010-11



Within the central sector, the dominant share is of the NTPC and the share of each central sector units within the central sector for 2010-11 is given below (Figure 3.9):

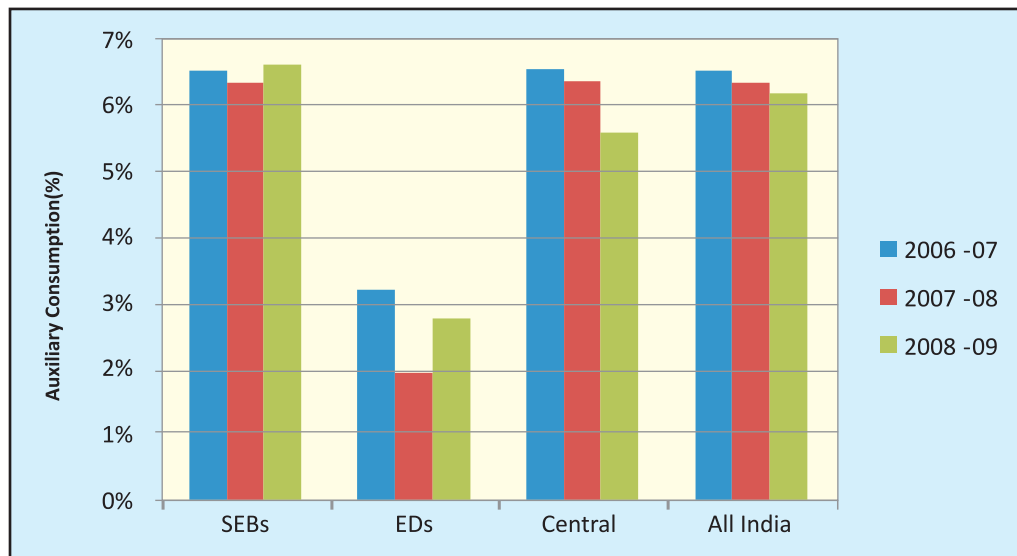
Figure 3.9
Share of Central Sector Units of the Total Central Gross Generation in 2010-11



3.4 AUXILIARY CONSUMPTION

The auxiliary consumption during the period 2006-07 and 2008-09 has been about 6 percent and there is not much of a difference between the utilities of the State, and the Central sector units (Figure 3.10).

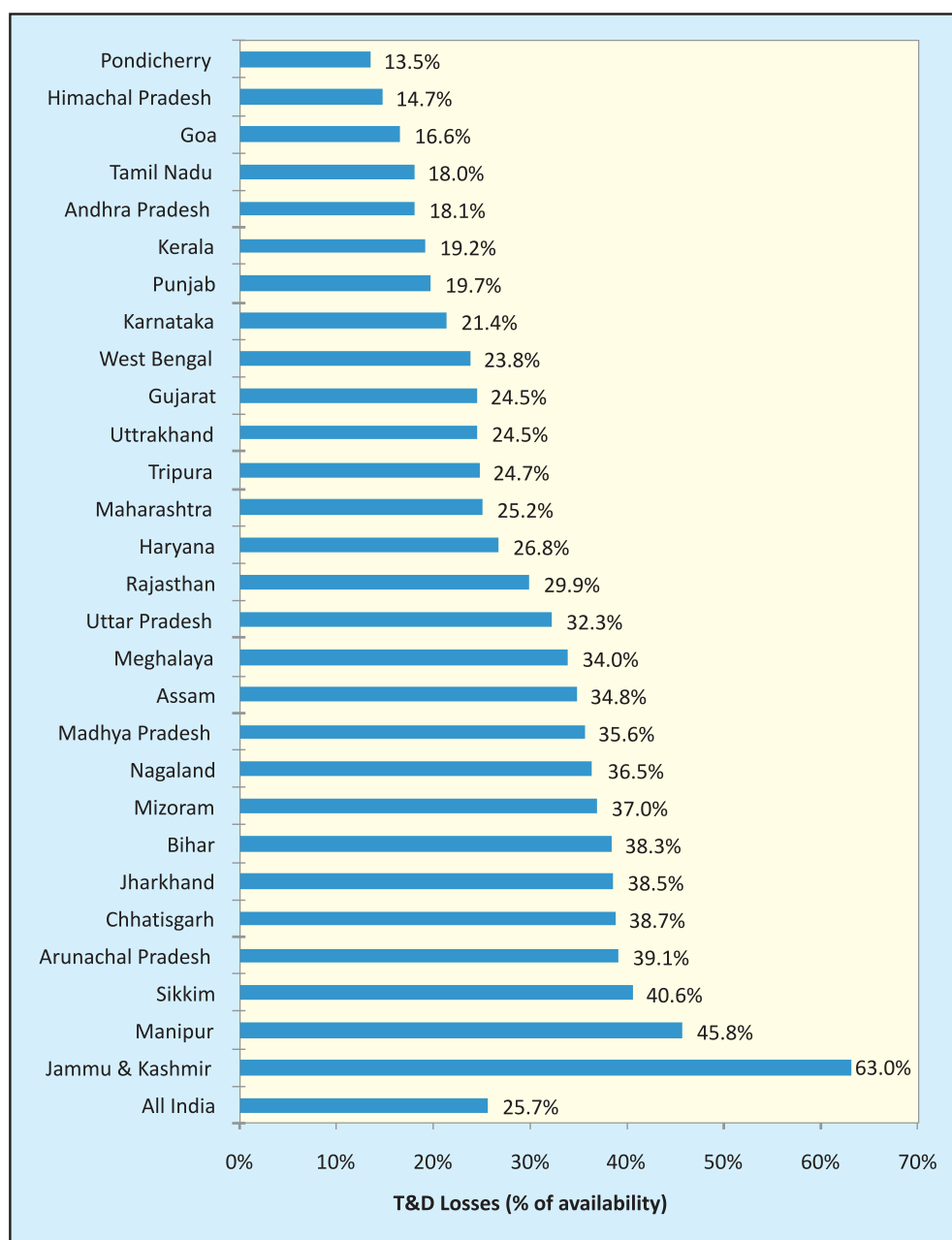
Figure 3.10
Share of Auxiliary Consumption in Total Generation from 2006-07 to 2008-09 (in percentage)



3.5 T&D LOSSES

The T&D losses for the whole of India during 1995-96 was about 22 percent which has increased to about 25.6 percent by 2009-10. As far as figures for 2009-10 are concerned, the States which have relatively high T&D losses are Jammu & Kashmir (63%), Bihar (38%), Chhattisgarh (38%), Jharkhand (38%) and Madhya Pradesh (35%). The States having relatively low T&D losses include Punjab (19.7%), Himachal Pradesh (14.7%), Andhra Pradesh (18%) and Tamil Nadu (18%) (Figure 3.11).

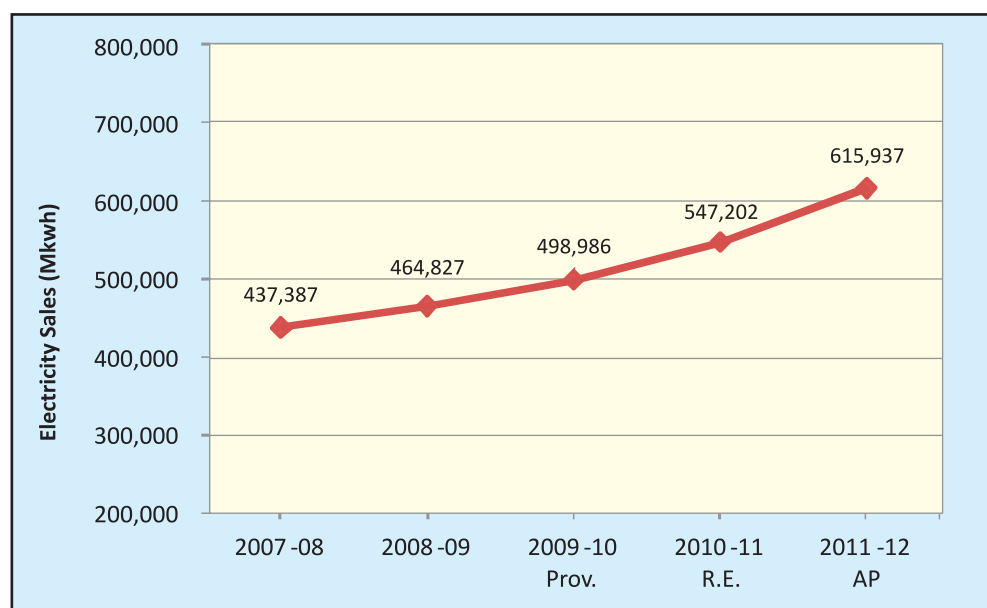
Figure 3.11
T&D Losses across Different States and EDs in 2009-10 (in percentage)



3.6 ELECTRICITY SALES

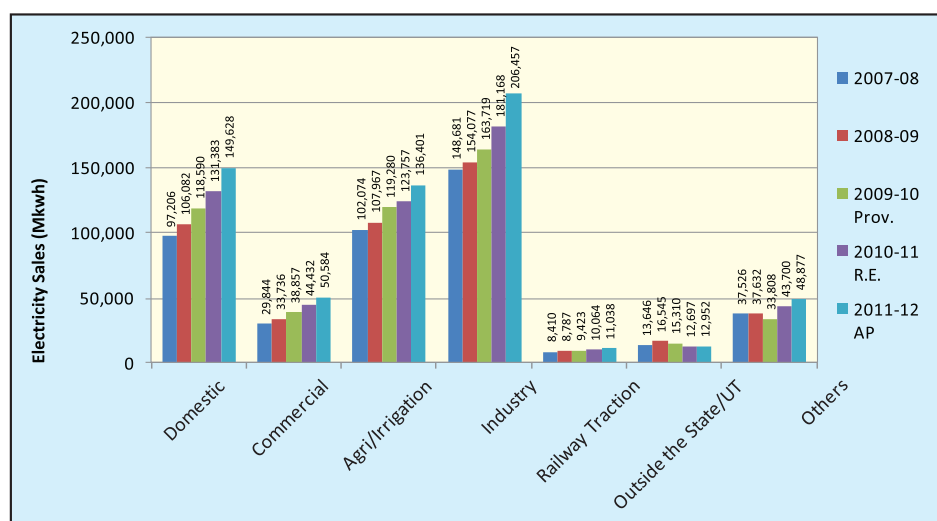
The sale of electricity which was about 213 billion units in 1992-93 has increased to 499 billion units by 2009-10. The projected sales are, however, about 616 Bus by 2011-12. This shows an average grown rate of 7.9 percent (Figure 3.12).

Figure 3.12
Total Electricity Sales (MkWh) from 2007-08 to 2011-12 (Annual Plan)



The sale of electricity in MkWh to different sectors for the period 2007-08 to 2011-12 (AP) is given in Figure 3.13. The percentage share of revenue earned from each sector during this period is given in Figure 3.14.

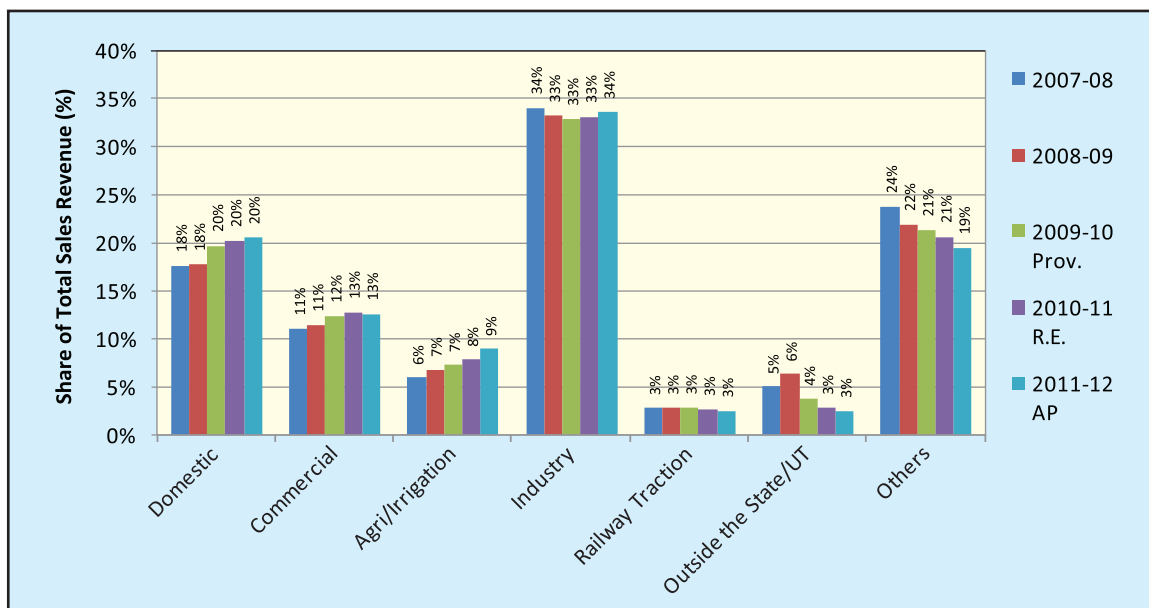
Figure 3.13
Sector-wise share in the total electricity sales from 2007-08 to 2011-12 (AP)



Note : RE (Revised Estimate) A.P. (Annual Plan)

Figure 3.14

Sector-wise share in the total sales revenue from 2007-08 to 2011-12 (Annual Plan)

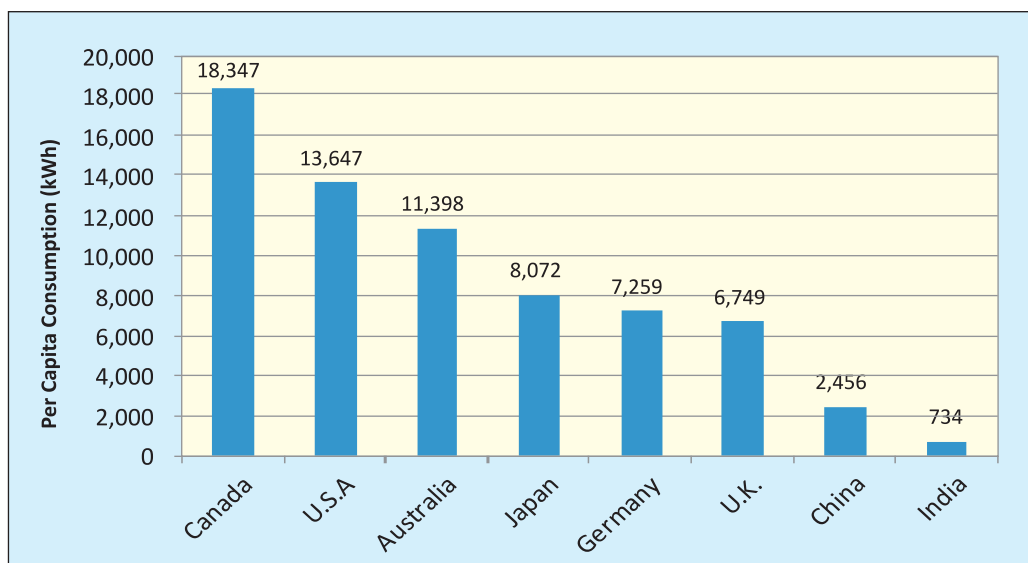


3.7 PER CAPITA CONSUMPTION

The per capita consumption of electricity in India was only about 178 units in 1985-86 which increased to 355 units in 1999-2000, registering an average annual growth rate of 7.1 percent. The per capita consumption in 2008-09 has increased to 734 units but it is still very low as compared to the per capita consumption in some select countries (Figure 3.15).

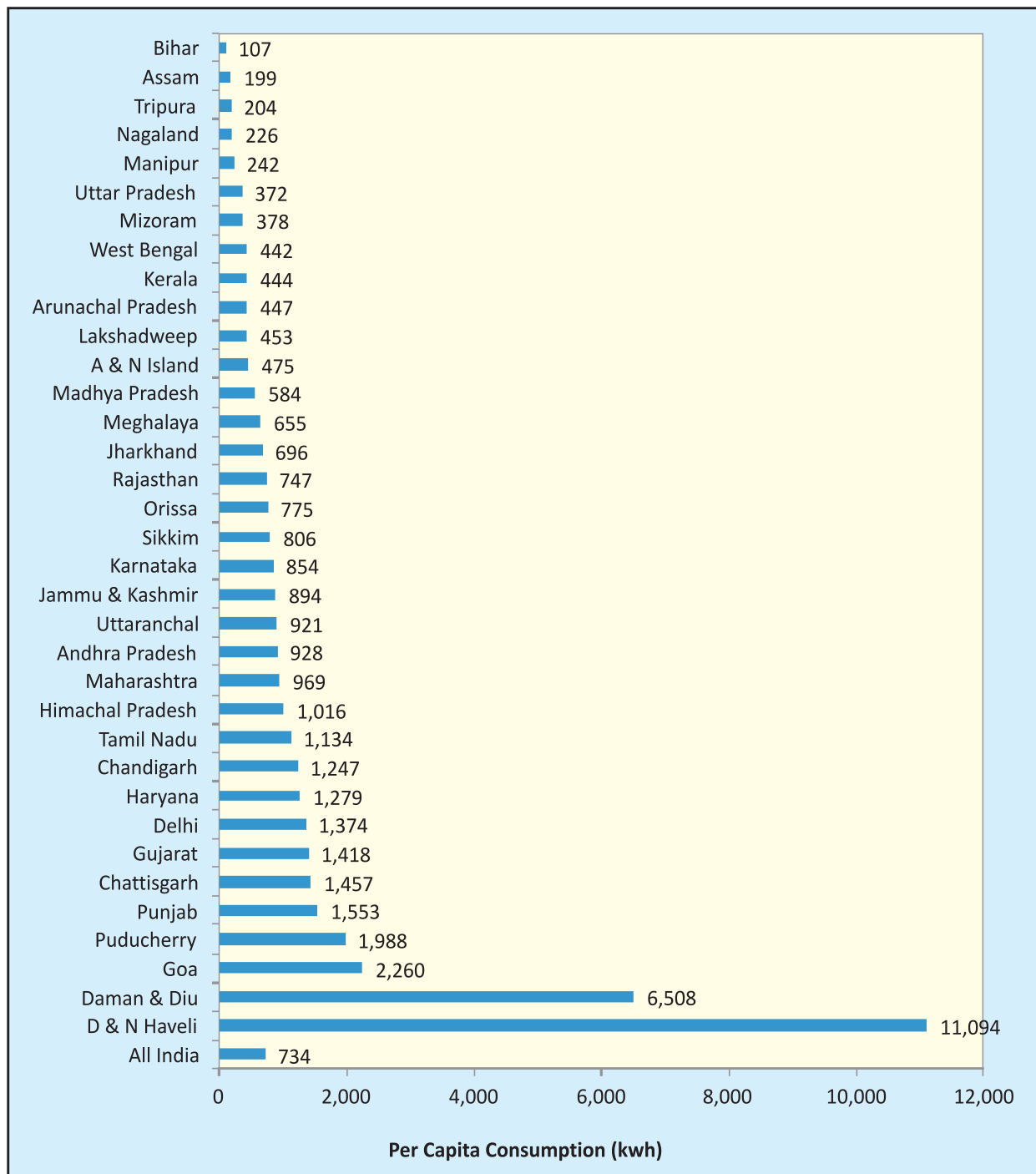
Figure 3.15

Per capita electricity (kWh/year) consumption for some select countries for 2008-09.



There is large inter-State variation in per capita consumption across Indian States. The graph below gives the per capita consumption figures for each State in an ascending order for 2008-09 (Figure 3.16).

Figure 3.16
Per Capita Consumption of Electricity (kWh) across different states and U.T. for 2008-09



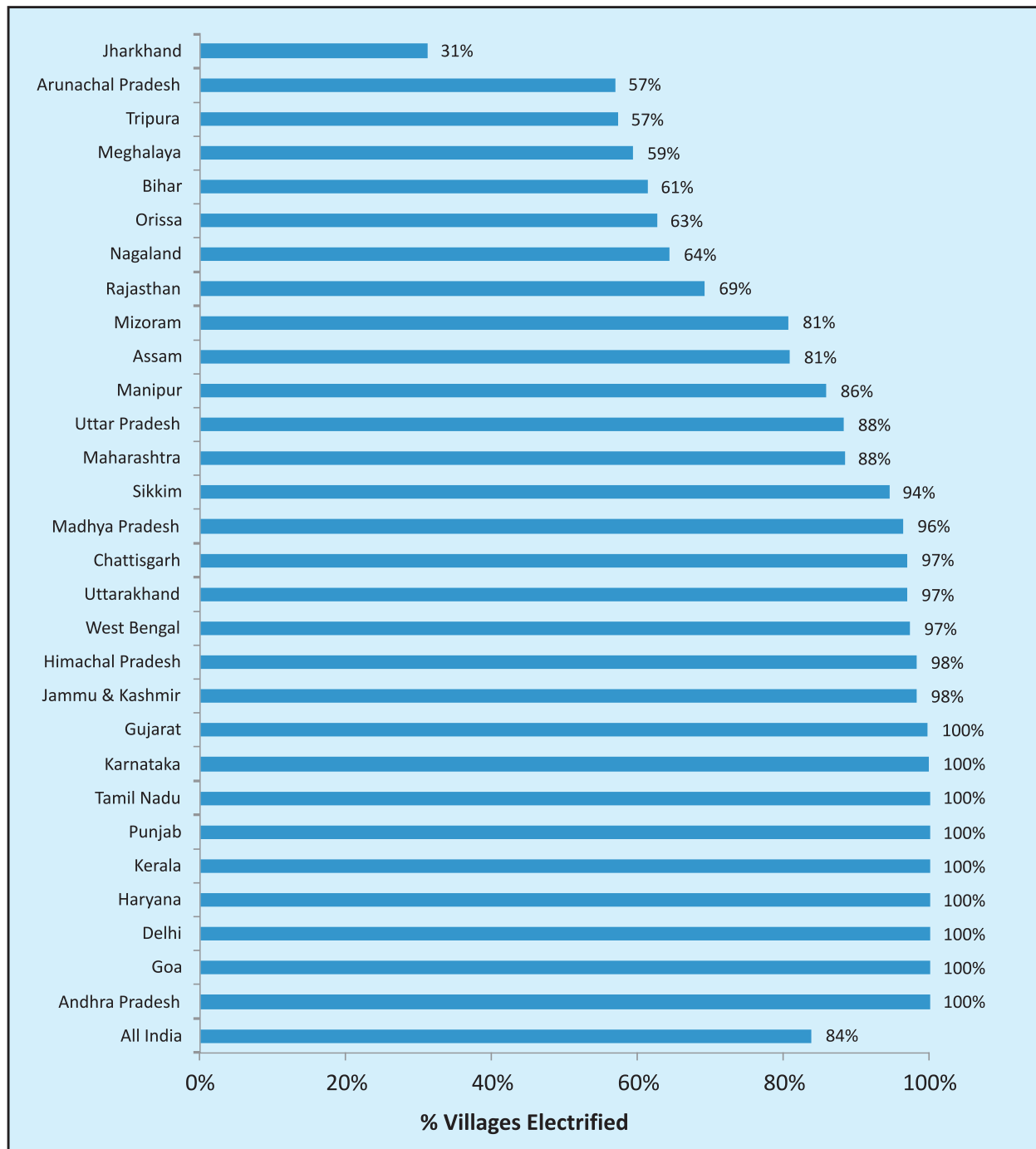
3.8 POWER SUPPLY POSITION

The peak deficit at the end of the 10th Plan i.e. in 2006-07 was 13.8 percent and the energy deficit was about 9.6 percent. During the year 2010-11, the peak deficit, however, has been 10.3 percent whereas the energy deficit was about 8.9 percent. This does not necessarily imply an improvement in the power supply position since it has been seen that demand for power has come down over the last one year and one of the principal reasons for this is the lower power purchasing capacity of the distribution utilities.

3.9 RURAL ELECTRIFICATION

Out of total of about 5.93 lakh census villages (2001 Census), village electrification has been completed in about 83.7 percent of the villages. The States which have been declared as total electrified include Andhra Pradesh, Goa, Delhi, Haryana, Kerala, Punjab and Tamil Nadu. The extent of village electrification can be seen in the following figure in an ascending order (Figure 3.17):

Figure 3.17
Status of rural electrification: State-wise percentage of villages electrified on as of March 2009



INSTALLED CAPACITY (MW) As on 31st March, 2007

		Hydro	Thermal			Total Thermal	Nuclear	Renewables	Total
			Steam	Diesel	Gas				
	I. States								
1	Andhra Pradesh	3586.4	3132.5	36.8	1875.7	5045.0	0.0	386.4	9017.8
	State Sector	3582.6	3132.5	0.0	272.3	3404.8	0.0	103.0	7090.4
	Private Sector	3.8	0.0	36.8	1603.4	1640.2	0.0	283.5	1927.4
2	Assam	102.0	330.0	20.7	269.0	619.7	0.0	0.1	721.8
	State Sector	102.0	330.0	20.7	244.5	595.2	0.0	0.1	697.3
	Private Sector	0.0	0.0	0.0	24.5	24.5	0.0	0.0	24.5
3	Bihar	44.9	553.5	0.0	0.0	553.5	0.0	5.5	603.9
	State Sector	44.9	553.5	0.0	0.0	553.5	0.0	5.5	603.9
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	Chattisgarh	125.0	1530.0	0.0	0.0	1530.0	0.0	32.6	1687.6
	State Sector	125.0	1530.0	0.0	0.0	1530.0	0.0	13.1	1668.1
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	19.5	19.5
5	Delhi	0.0	320.0	0.0	612.4	932.4	0.0	0.0	932.4
	State Sector	0.0	320.0	0.0	612.4	932.4	0.0	0.0	932.4
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	Gujarat	777.0	5069.0	17.5	1908.7	6995.2	0.0	408.3	8180.5
	State Sector	777.0	4429.0	17.3	478.7	4925.0	0.0	19.3	5721.3
	Private Sector	0.0	640.0	0.2	1430.0	2070.2	0.0	389.0	2459.2
7	Haryana	946.6	1602.5	3.9	0.0	1606.4	0.0	6.3	2559.4
	State Sector	946.6	1602.5	3.9	0.0	1606.4	0.0	0.3	2553.4
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
8	Himachal Pradesh	862.6	0.0	0.1	0.0	0.1	0.0	58.6	921.4
	State Sector	476.6	0.0	0.1	0.0	0.1	0.0	58.6	535.4
	Private Sector	386.0	0.0	0.0	0.0	0.0	0.0	0.0	386.0
9	Jharkhand	130.0	1620.0	0.0	0.0	1620.0	0.0	4.1	1754.1
	State Sector	130.0	1260.0	0.0	0.0	1260.0	0.0	4.1	1394.1
	Private Sector	0.0	360.0	0.0	0.0	360.0	0.0	0.0	360.0
10	Jammu & Kashmir	429.2	0.0	8.9	175.0	183.9	0.0	12.7	625.8
	State Sector	429.2	0.0	8.9	175.0	183.9	0.0	12.7	625.8
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	Karnataka	3427.9	1730.0	234.4	220.0	2184.4	0.0	1172.0	6784.4
	State Sector	3376.2	1470.0	127.9	0.0	1597.9	0.0	365.0	5339.1
	Private Sector	51.7	260.0	106.5	220.0	586.5	0.0	807.1	1445.3

Annexure 3.1 (Contd.)

		Hydro	Thermal			Total Thermal	Nuclear	Renewables	Total
			Steam	Diesel	Gas				
12	Kerala	1821.6	0.0	256.4	174.0	430.4	0.0	61.6	2313.7
	State Sector	1821.6	0.0	234.6	0.0	234.6	0.0	61.6	2117.8
	Private Sector	0.0	0.0	21.8	174.0	195.8	0.0	0.0	195.9
13	Madhya Pradesh	1738.2	2157.5	0.0	0.0	2157.5	0.0	76.3	3971.9
	State Sector	1724.7	2157.5	0.0	0.0	2157.5	0.0	17.3	3899.4
	Private Sector	13.5	0.0	0.0	0.0	0.0	0.0	59.0	72.5
14	Maharashtra	3278.7	8325.0	0.0	1092.0	9417.0	0.0	1357.6	14053.3
	State Sector	2831.7	6675.0	0.0	912.0	7587.0	0.0	19.9	10438.6
	Private Sector	447.0	1650.0	0.0	180.0	1830.0	0.0	1337.7	3614.7
15	Meghalaya	185.5	0.0	2.1	0.0	2.1	0.0	1.5	189.1
	State Sector	185.5	0.0	2.1	0.0	2.1	0.0	1.5	189.1
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	Orissa	1923.9	420.0	0.0	0.0	420.0	0.0	1.3	2345.2
	State Sector	1923.9	420.0	0.0	0.0	420.0	0.0	1.3	2345.2
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	Punjab	2327.1	2130.0	0.0	0.0	2130.0	0.0	135.4	4592.5
	State Sector	2322.9	2130.0	0.0	0.0	2130.0	0.0	111.4	4564.3
	Private Sector	4.2	0.0	0.0	0.0	0.0	0.0	24.0	28.2
18	Rajasthan	1008.8	2545.0	0.0	223.8	2768.8	0.0	467.5	4245.1
	State Sector	1008.8	2545.0	0.0	223.8	2768.8	0.0	10.5	3788.1
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	457.0	457.0
19	Tamil Nadu	2175.9	3220.0	411.7	934.1	4565.8	0.0	3351.5	10093.1
	State Sector	2175.9	2970.0	0.0	431.0	3401.0	0.0	27.9	5604.8
	Private Sector	0.0	250.0	411.7	503.1	1164.8	0.0	3323.6	4488.3
20	Uttar Pradesh	541.1	4380.0	0.0	0.0	4380.0	0.0	89.9	5011.0
	State Sector	541.1	4380.0	0.0	0.0	4380.0	0.0	11.4	4932.5
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	78.5	78.5
21	Uttarakhand	1386.9	0.0	0.0	0.0	0.0	0.0	43.1	1430.0
	State Sector	986.9	0.0	0.0	0.0	0.0	0.0	43.1	1030.0
	Private Sector	400.0	0.0	0.0	0.0	0.0	0.0	0.0	400.0
22	West Bengal	161.7	4296.4	12.2	100.0	4408.6	0.0	28.8	4599.1
	State Sector	161.7	3215.0	12.1	100.0	3327.1	0.0	28.6	3517.4
	Private Sector	0.0	1081.4	0.1	0.0	1081.5	0.0	0.2	1081.7

Annexure 3.1 (Contd.)

		Hydro	Thermal			Total Thermal	Nuclear	Renewables	Total
			Steam	Diesel	Gas				
	II. EDs								
1	A&N Islands	5.3	0.0	60.1	0.0	60.1	0.0	5.3	70.6
	UT's own	5.3	0.0	40.1	0.0	40.1	0.0	5.3	50.6
	<i>Private Sector</i>	<i>0.0</i>	<i>0.0</i>	<i>20.0</i>	<i>0.0</i>	<i>20.0</i>	<i>0.0</i>	<i>0.0</i>	<i>20.0</i>
2	Arunachal Pradesh	26.5	0.0	15.9	0.0	15.9	0.0	26.7	69.1
3	Chandigarh	0.0	0.0	2.0	0.0	2.0	0.0	0.0	2.0
4	D &N Haveli & Daman & Diu	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	Goa	0.0	0.0	0.0	48.0	48.0	0.0	0.1	48.1
	State Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
	<i>Private Sector</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>48.0</i>	<i>48.0</i>	<i>0.0</i>	<i>0.0</i>	<i>48.0</i>
6	Lakshadweep	0.0	0.0	10.0	0.0	10.0	0.0	0.0	10.0
7	Manipur	1.5	0.0	45.4	0.0	45.4	0.0	4.0	50.9
8	Mizoram	4.1	0.0	51.9	0.0	51.9	0.0	13.4	69.3
9	Nagaland	25.5	0.0	2.0	0.0	2.0	0.0	3.2	30.7
10	Puducerry	0.0	0.0	0.0	32.5	32.5	0.0	0.0	32.5
11	Sikkim	32.0	0.0	5.0	0.0	5.0	0.0	7.1	44.1
12	Tripura	16.0	0.0	4.9	127.5	132.4	0.0	0.0	148.4
	Central Sector								
	1. DVC	144.0	2850.0	0.0	90.0	2940.0	0.0	0.0	3084.0
	2. HP-NJPC JV	1500.0	0.0	0.0	0.0	0.0	0.0	0.0	1500.0
	3. NEEPCO	755.0	0.0	0.0	375.0	375.0	0.0	0.0	1130.0
	4. NLC	0.0	2490.0	0.0	0.0	2490.0	0.0	0.0	2490.0
	5. NHDC	1000.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
	6. NHPC	3163.0	0.0	0.0	0.0	0.0	0.0	0.0	3163.0
	7. NTPC	0.0	22420.0	0.0	4694.0	27114.0	0.0	0.0	27114.0
	8. NPCIL	0.0	0.0	0.0	0.0	0.0	3900.0	0.0	3900.0
	9. NTPC+ ONGC	0.0	0.0	0.0	740.0	740.0	0.0	0.0	740.0
	10. THDC	1000.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
	Total Central Sector	7562.0	27760.0	0.0	5899.0	33659.0	3900.0	0.0	45121.0
	Total State Sector	25785.6	39120.0	604.6	3609.7	43334.3	0.0	975.7	70095.6
	Total Private Sector	1306.2	4241.4	597.1	4183.0	9021.5	0.0	6785.0	17112.6
	Total All India	34653.8	71121.4	1201.8	13691.7	86014.8	3900.0	7760.6	132329.2

Annexure 3.2

INSTALLED CAPACITY (MW) As on 31st March, 2008

		Hydro	Thermal			Total Thermal	Nuclear	Renewables	Total
			Steam	Diesel	Gas				
	I. States								
1	Andhra Pradesh	3533.9	3342.5	36.8	1875.7	5255.0	0.0	663.1	9452.0
	State Sector	3533.9	3342.5	0.0	272.3	3614.8	0.0	186.0	7334.7
	Private Sector	0.0	0.0	36.8	1603.4	1640.2	0.0	477.1	2117.3
2	Assam	100.0	60.0	20.7	263.5	344.2	0.0	2.1	446.3
	State Sector	100.0	60.0	20.7	239.0	319.7	0.0	2.1	421.8
	Private Sector	0.0	0.0	0.0	24.5	24.5	0.0	0.0	24.5
3	Bihar	0.0	540.0	0.0	0.0	540.0	0.0	50.4	590.4
	State Sector	0.0	540.0	0.0	0.0	540.0	0.0	50.4	590.4
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	Chattisgarh	120.0	2530.0	0.0	0.0	2530.0	0.0	164.4	2814.4
	State Sector	120.0	1780.0	0.0	0.0	1780.0	0.0	18.1	1918.1
	Private Sector	0.0	750.0	0.0	0.0	750.0	0.0	146.3	896.3
5	Delhi	0.0	320.0	0.0	612.4	932.4	0.0	0.0	932.4
	State Sector	0.0	320.0	0.0	612.4	932.4	0.0	0.0	932.4
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	Gujarat	772.0	4755.0	17.5	1948.7	6721.2	0.0	858.1	8351.3
	State Sector	772.0	4115.0	17.3	518.7	4651.0	0.0	24.3	5447.3
	Private Sector	0.0	640.0	0.2	1430.0	2070.2	0.0	833.8	2904.0
7	Haryana	884.2	2202.5	3.9	0.0	2206.4	0.0	68.7	3159.4
	State Sector	884.2	2202.5	3.9	0.0	2206.4	0.0	62.7	3153.4
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
8	Himachal Pradesh	779.6	0.0	0.1	0.0	0.1	0.0	146.6	926.4
	State Sector	393.6	0.0	0.1	0.0	0.1	0.0	146.6	540.4
	Private Sector	386.0	0.0	0.0	0.0	0.0	0.0	0.0	386.0
9	Jharkhand	130.0	1620.0	0.0	0.0	1620.0	0.0	4.1	1754.1
	State Sector	130.0	1260.0	0.0	0.0	1260.0	0.0	4.1	1394.1
	Private Sector	0.0	360.0	0.0	0.0	360.0	0.0	0.0	360.0
10	Jammu & Kashmir	330.0	0.0	8.9	175.0	183.9	0.0	111.8	625.8
	State Sector	330.0	0.0	8.9	175.0	183.9	0.0	111.8	625.8
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	Karnataka	3300.8	2230.0	234.4	220.0	2684.4	0.0	1640.7	7626.0
	State Sector	3300.8	1470.0	127.9	0.0	1597.9	0.0	471.5	5370.2
	Private Sector	0.0	760.0	106.5	220.0	1086.5	0.0	1169.2	2255.7

Annexure 3.2 (Contd.)

		Hydro	Thermal			Total Thermal	Nuclear	Renewables	Total
			Steam	Diesel	Gas				
12	Kerala	1756.5	0.0	256.4	174.0	430.4	0.0	100.1	2287.1
	State Sector	1756.5	0.0	234.6	0.0	234.6	0.0	100.1	2091.2
	Private Sector	0.0	0.0	21.8	174.0	195.8	0.0	0.0	195.9
13	Madhya Pradesh	1703.7	2657.5	0.0	0.0	2657.5	0.0	122.8	4484.0
	State Sector	1703.7	2657.5	0.0	0.0	2657.5	0.0	51.8	4412.9
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	71.1	71.1
14	Maharashtra	3082.8	8450.0	0.0	1092.0	9542.0	0.0	1955.6	14580.5
	State Sector	2638.8	6800.0	0.0	912.0	7712.0	0.0	219.7	10570.6
	Private Sector	444.0	1650.0	0.0	180.0	1830.0	0.0	1735.9	4009.9
15	Meghalaya	156.0	0.0	2.1	0.0	2.1	0.0	31.0	189.1
	State Sector	156.0	0.0	2.1	0.0	2.1	0.0	31.0	189.1
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	Orissa	2067.9	420.0	0.0	0.0	420.0	0.0	10.5	2498.4
	State Sector	2067.9	420.0	0.0	0.0	420.0	0.0	7.3	2495.2
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2
17	Punjab	2319.8	2380.0	0.0	0.0	2380.0	0.0	161.5	4861.3
	State Sector	2319.8	2380.0	0.0	0.0	2380.0	0.0	123.9	4823.7
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	37.6	37.6
18	Rajasthan	987.8	2545.0	0.0	443.8	2988.8	0.0	543.0	4519.6
	State Sector	987.8	2545.0	0.0	443.8	2988.8	0.0	30.3	4006.9
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	512.8	512.8
19	Tamil Nadu	2094.0	3220.0	411.7	934.1	4565.8	0.0	3946.5	10606.2
	State Sector	2094.0	2970.0	0.0	431.0	3401.0	0.0	110.2	5605.2
	Private Sector	0.0	250.0	411.7	503.1	1164.8	0.0	3836.3	5001.1
20	Uttar Pradesh	523.5	4380.0	0.0	0.0	4380.0	0.0	174.0	5077.5
	State Sector	523.5	4380.0	0.0	0.0	4380.0	0.0	25.1	4928.6
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	148.9	148.9
21	Uttarakhand	1652.2	0.0	0.0	0.0	0.0	0.0	82.7	1734.8
	State Sector	1252.2	0.0	0.0	0.0	0.0	0.0	82.6	1334.8
	Private Sector	400.0	0.0	0.0	0.0	0.0	0.0	0.1	400.1
22	West Bengal	1022.0	5356.4	12.2	100.0	5468.6	0.0	99.6	6590.1
	State Sector	1022.0	4275.0	12.1	100.0	4387.1	0.0	99.5	5508.6
	Private Sector	0.0	1081.4	0.1	0.0	1081.5	0.0	0.1	1081.6
	IIEDs								
1	A&N Islands	0.0	0.0	60.1	0.0	60.1	0.0	5.4	65.4
	UT Own	0.0	0.0	40.1	0.0	40.1	0.0	5.3	45.3
	Private Sector	0.0	0.0	20.0	0.0	20.0	0.0	0.1	20.1
2	Arunachal Pradesh	0.0	0.0	15.9	0.0	15.9	0.0	45.2	61.1

		Hydro	Thermal			Total Thermal	Nuclear	Renewables	Total
			Steam	Diesel	Gas				
3	Chandigarh	0.0	0.0	2.0	0.0	2.0	0.0	0.0	2.0
4	D&N Haveli & Daman & Diu	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	Goa	0.0	0.0	0.0	48.0	48.0	0.0	30.1	78.1
	UT Own	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
	<i>Private Sector</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>48.0</i>	<i>48.0</i>	<i>0.0</i>	<i>30.0</i>	<i>78.0</i>
6	Lakshadweep	0.0	0.0	10.0	0.0	10.0	0.0	0.8	10.7
7	Manipur	0.0	0.0	45.4	0.0	45.4	0.0	5.5	50.9
8	Mizoram	0.0	0.0	51.9	0.0	51.9	0.0	17.5	69.3
9	Nagaland	0.0	0.0	2.0	0.0	2.0	0.0	28.7	30.7
10	Puducerry	0.0	0.0	0.0	32.5	32.5	0.0	0.0	32.5
11	Sikkim	0.0	0.0	5.0	0.0	5.0	0.0	39.1	44.1
12	Tripura	0.0	0.0	4.9	127.5	132.4	0.0	16.0	148.4
	Central Sector								
	1. DVC	144.0	3100.0	0.0	90.0	3190.0	0.0	0.0	3334.0
	2. HP-NJPC JV	1500.0	0.0	0.0	0.0	0.0	0.0	0.0	1500.0
	3. NEEPCO	755.0	0.0	0.0	375.0	375.0	0.0	0.0	1130.0
	4. NLC	0.0	2490.0	0.0	0.0	2490.0	0.0	0.0	2490.0
	5. NHDC	1520.0	0.0	0.0	0.0	0.0	0.0	0.0	1520.0
	6. NHPC	3673.0	0.0	0.0	0.0	0.0	0.0	0.0	3673.0
	7. NTPC	0.0	23420.0	0.0	3954.0	27374.0	0.0	0.0	27374.0
	8. NPCIL	0.0	0.0	0.0	0.0	0.0	4120.0	0.0	4120.0
	9. NTPC+ ONGC	0.0	0.0	0.0	2220.0	2220.0	0.0	0.0	2220.0
	10. THDC	1000.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
	Total Central Sector	8592.0	29010.0	0.0	6639.0	35649.0	4120.0	0.0	48361.0
	Total State Sector	26086.8	41517.5	604.6	3864.2	45986.3	0.0	2117.1	74190.2
	Total Private Sector	1230.0	5491.4	597.1	4183.0	10271.5	0.0	9008.3	20509.9
	Total All India	35908.8	76018.9	1201.8	14686.2	91906.9	4120.0	11125.4	143061.0
	Total Central Sector	8592.0	29010.0	0.0	6639.0	35649.0	4120.0	0.0	48361.0
	Total State Sector	26086.8	41517.5	604.6	3864.2	45986.3	0.0	2117.1	74190.2
	Total Private Sector	1230.0	5491.4	597.1	4183.0	10271.5	0.0	9008.3	20509.9
	Total All India	35908.8	76018.9	1201.8	14686.2	91906.9	4120.0	11125.4	143061.0

INSTALLED CAPACITY (MW) As on 31st March, 2009

		Hydro	Thermal			Total Thermal	Nuclear	Renewables	Total
			Steam	Diesel	Gas				
	I. States								
1	Andhra Pradesh	3572.9	3342.5	36.8	1603.4	4982.7	0.0	668.7	9224.3
	State Sector	3572.9	3342.5	0.0	0.0	3342.5	0.0	182.4	7097.9
	Private Sector	0.0	0.0	36.8	1603.4	1640.2	0.0	486.2	2126.4
2	Assam	100.0	60.0	20.7	263.5	344.2	0.0	27.1	471.3
	State Sector	100.0	60.0	20.7	239.0	319.7	0.0	27.1	446.8
	Private Sector	0.0	0.0	0.0	24.5	24.5	0.0	0.0	24.5
3	Bihar	0.0	540.0	0.0	0.0	540.0	0.0	50.4	590.4
	State Sector	0.0	540.0	0.0	0.0	540.0	0.0	50.4	590.4
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	Chattisgarh	120.0	2780.0	0.0	0.0	2780.0	0.0	174.2	3074.2
	State Sector	120.0	1780.0	0.0	0.0	1780.0	0.0	18.1	1918.1
	Private Sector	0.0	1000.0	0.0	0.0	1000.0	0.0	156.1	1156.1
5	Delhi	0.0	320.0	0.0	600.4	920.4	0.0	0.0	920.4
	State Sector	0.0	320.0	0.0	600.4	920.4	0.0	0.0	920.4
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	Gujarat	772.0	4755.0	17.5	2331.2	7103.7	0.0	1397.5	9273.2
	State Sector	772.0	4115.0	17.3	518.7	4651.0	0.0	24.3	5447.3
	Private Sector	0.0	640.0	0.2	1812.5	2452.7	0.0	1373.2	3825.9
7	Haryana	884.2	2142.5	3.9	0.0	2146.4	0.0	68.7	3099.4
	State Sector	884.2	2142.5	3.9	0.0	2146.4	0.0	62.7	3093.4
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
8	Himachal Pradesh	779.6	0.0	0.1	0.0	0.1	0.0	185.1	964.8
	State Sector	393.6	0.0	0.1	0.0	0.1	0.0	185.1	578.8
	Private Sector	386.0	0.0	0.0	0.0	0.0	0.0	0.0	386.0
9	Jharkhand	130.0	1620.0	0.0	0.0	1620.0	0.0	4.1	1754.1
	State Sector	130.0	1260.0	0.0	0.0	1260.0	0.0	4.1	1394.1
	Private Sector	0.0	360.0	0.0	0.0	360.0	0.0	0.0	360.0
10	Jammu & Kashmir	780.0	0.0	8.9	175.0	183.9	0.0	111.8	1075.8
	State Sector	780.0	0.0	8.9	175.0	183.9	0.0	111.8	1075.8
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	Karnataka	3530.8	2230.0	234.4	220.0	2684.4	0.0	1880.5	8095.8
	State Sector	3530.8	1970.0	127.9	0.0	2097.9	0.0	452.4	6081.1
	Private Sector	0.0	260.0	106.5	220.0	586.5	0.0	1428.1	2014.6
12	Kerala	1756.5	0.0	256.4	174.0	430.4	0.0	119.0	2306.0
	State Sector	1756.5	0.0	234.6	0.0	234.6	0.0	119.0	2110.1
	Private Sector	0.0	0.0	21.8	174.0	195.8	0.0	0.0	195.9

Annexure 3.3 (Contd.)

		Hydro	Thermal			Total Thermal	Nuclear	Renewables	Total
			Steam	Diesel	Gas				
13	Madhya Pradesh	1703.7	2807.5	0.0	0.0	2807.5	0.0	262.7	4773.9
	State Sector	1703.7	2807.5	0.0	0.0	2807.5	0.0	71.8	4582.9
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	191.0	191.0
14	Maharashtra	3332.8	8700.0	0.0	1092.0	9792.0	0.0	2159.2	15284.1
	State Sector	2888.8	6800.0	0.0	912.0	7712.0	0.0	216.7	10817.6
	Private Sector	444.0	1900.0	0.0	180.0	2080.0	0.0	1942.5	4466.5
15	Meghalaya	156.0	0.0	2.1	0.0	2.1	0.0	31.0	189.1
	State Sector	156.0	0.0	2.1	0.0	2.1	0.0	31.0	189.1
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	Orissa	2067.9	420.0	0.0	0.0	420.0	0.0	32.3	2520.2
	State Sector	2067.9	420.0	0.0	0.0	420.0	0.0	32.3	2520.2
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	Punjab	2319.8	2630.0	0.0	0.0	2630.0	0.0	161.5	5111.3
	State Sector	2319.8	2630.0	0.0	0.0	2630.0	0.0	123.9	5073.7
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	37.6	37.6
18	Rajasthan	987.8	2545.0	0.0	443.8	2988.8	0.0	726.3	4702.9
	State Sector	987.8	2545.0	0.0	443.8	2988.8	0.0	30.3	4006.9
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	696.1	696.1
19	Tamil Nadu	2094.0	3220.0	411.7	1026.3	4658.0	0.0	4379.6	11131.6
	State Sector	2094.0	2970.0	0.0	523.2	3493.2	0.0	110.6	5697.7
	Private Sector	0.0	250.0	411.7	503.1	1164.8	0.0	4269.1	5433.9
20	Uttar Pradesh	523.5	4120.0	0.0	0.0	4120.0	0.0	403.0	5046.5
	State Sector	523.5	4120.0	0.0	0.0	4120.0	0.0	25.1	4668.6
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	377.9	377.9
21	Uttarakhand	1652.2	0.0	0.0	0.0	0.0	0.0	110.0	1762.1
	State Sector	1252.2	0.0	0.0	0.0	0.0	0.0	109.9	1362.1
	Private Sector	400.0	0.0	0.0	0.0	0.0	0.0	0.1	400.1
22	West Bengal	1022.0	5656.4	12.2	100.0	5768.6	0.0	99.6	6890.1
	State Sector	1022.0	4575.0	12.1	100.0	4687.1	0.0	99.5	5808.6
	Private Sector	0.0	1081.4	0.1	0.0	1081.5	0.0	0.1	1081.6
	II.EDs								
1	A&N Islands	0.0	0.0	60.1	0.0	60.1	0.0	5.4	65.4
	UT Own	0.0	0.0	40.1	0.0	40.1	0.0	5.3	45.3
	Private Sector	0.0	0.0	20.0	0.0	20.0	0.0	0.1	20.1
2	Arunachal Pradesh	0.0	0.0	15.9	0.0	15.9	0.0	45.3	61.1
	State Sector	0.0	0.0	15.9	0.0	15.9	0.0	45.2	61.1
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	Chandigarh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	D&N Haveli & Daman & DIU	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Annexure 3.3 (Contd.)

		Hydro	Thermal			Total	Nuclear	Renewables	Total
			Steam	Diesel	Gas	Thermal			
5	Goa	0.0	0.0	0.0	48.0	48.0	0.0	30.1	78.1
	State Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
	Private Sector	0.0	0.0	0.0	48.0	48.0	0.0	30.0	78.0
6	Lakshadweep	0.0	0.0	10.0	0.0	10.0	0.0	0.8	10.7
	UT Own	0.0	0.0	10.0	0.0	10.0	0.0	0.0	10.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
7	Manipur	0.0	0.0	45.4	0.0	45.4	0.0	5.5	50.9
8	Mizoram	0.0	0.0	51.9	0.0	51.9	0.0	17.5	69.3
9	Nagaland	0.0	0.0	2.0	0.0	2.0	0.0	28.7	30.7
10	Puducerry	0.0	0.0	0.0	32.5	32.5	0.0	0.0	32.5
	UT Own	0.0	0.0	0.0	32.5	32.5	0.0	0.0	32.5
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	Sikkim	0.0	0.0	5.0	0.0	5.0	0.0	41.1	46.1
12	Tripura	0.0	0.0	4.9	127.5	132.4	0.0	16.0	148.4
11	Sikkim	0.0	0.0	5.0	0.0	5.0	0.0	41.1	46.1
12	Tripura	0.0	0.0	4.9	127.5	132.4	0.0	16.0	148.4
	Central Sector								
	1. DVC	144.0	3100.0	0.0	90.0	3190.0	0.0	0.0	3334.0
	2. HP-NJPC JV	1500.0	0.0	0.0	0.0	0.0	0.0	0.0	1500.0
	3. NEEPCO	755.0	0.0	0.0	375.0	375.0	0.0	0.0	1130.0
	4. NLC	0.0	2490.0	0.0	0.0	2490.0	0.0	0.0	2490.0
	5. NHDC	1520.0	0.0	0.0	0.0	0.0	0.0	0.0	1520.0
	6. NHPC	3673.0	0.0	0.0	0.0	0.0	0.0	0.0	3673.0
	7. NTPC	0.0	24170.0	0.0	3954.0	28124.0	0.0	0.0	28124.0
	8. NPCIL	0.0	0.0	0.0	0.0	0.0	4120.0	0.0	4120.0
	9. NTPC+ ONGC	0.0	0.0	0.0	2220.0	2220.0	0.0	0.0	2220.0
	10. THDC	1000.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
	Total Central Sector	8592.0	29760.0	0.0	6639.0	36399.0	4120.0	0.0	49111.0
	Total State Sector	27055.8	42397.5	602.6	3672.1	46672.2	0.0	2247.7	75975.7
	Total Private Sector	1230.0	5491.4	597.1	4565.5	10654.0	0.0	10994.7	22878.8
	Total All India	36877.8	77648.9	1199.8	14876.6	93725.3	4120.0	13242.4	147965.4

Annexure 3.4

INSTALLED CAPACITY (MW) As on 31st March, 2010

		Hydro	Thermal			Total Thermal	Nuclear	Renewables	Total
			Steam	Diesel	Gas				
	I. States								
1	Andhra Pradesh	3617.5	3882.5	36.8	2580.4	6499.7	0.0	700.5	10817.7
	State Sector	3617.5	3882.5	0.0	0.0	3882.5	0.0	188.4	7688.5
	Private Sector	0.0	0.0	36.8	2580.4	2617.2	0.0	512.1	3129.3
2	Assam	100.0	60.0	20.7	263.5	344.2	0.0	27.1	471.3
	State Sector	100.0	60.0	20.7	239.0	319.7	0.0	27.1	446.8
	Private Sector	0.0	0.0	0.0	24.5	24.5	0.0	0.0	24.5
3	Bihar	0.0	530.0	0.0	0.0	530.0	0.0	54.6	584.6
	State Sector	0.0	530.0	0.0	0.0	530.0	0.0	54.6	584.6
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	Chattisgarh	120.0	3660.0	0.0	0.0	3660.0	0.0	219.0	3999.0
	State Sector	120.0	2060.0	0.0	0.0	2060.0	0.0	19.1	2199.1
	Private Sector	0.0	1600.0	0.0	0.0	1600.0	0.0	199.9	1799.9
5	Delhi	0.0	135.0	0.0	600.4	735.4	0.0	0.0	735.4
	State Sector	0.0	135.0	0.0	600.4	735.4	0.0	0.0	735.4
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	Gujarat	772.0	5500.0	17.5	3470.2	8987.7	0.0	1655.9	11415.6
	State Sector	772.0	4190.0	17.3	892.7	5100.0	0.0	29.9	5901.9
	Private Sector	0.0	1310.0	0.2	2577.5	3887.7	0.0	1626.0	5513.7
7	Haryana	884.5	2615.0	3.9	0.0	2618.9	0.0	76.5	3579.9
	State Sector	884.5	2615.0	3.9	0.0	2618.9	0.0	68.7	3572.1
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	7.8	7.8
8	Himachal Pradesh	779.6	0.0	0.1	0.0	0.1	0.0	275.8	1055.6
	State Sector	393.6	0.0	0.1	0.0	0.1	0.0	275.8	669.6
	Private Sector	386.0	0.0	0.0	0.0	0.0	0.0	0.0	386.0
9	Jharkhand	130.0	1550.0	0.0	0.0	1550.0	0.0	4.1	1684.1
	State Sector	130.0	1190.0	0.0	0.0	1190.0	0.0	4.1	1324.1
	Private Sector	0.0	360.0	0.0	0.0	360.0	0.0	0.0	360.0
10	Jammu & Kashmir	780.0	0.0	8.9	175.0	183.9	0.0	129.3	1093.3
	State Sector	780.0	0.0	8.9	175.0	183.9	0.0	129.3	1093.3
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Annexure 3.4 (Contd.)

		Hydro	Thermal			Total Thermal	Nuclear	Renewables	Total
			Steam	Diesel	Gas				
11	Karnataka	3599.8	2830.0	234.4	220.0	3284.4	0.0	2234.1	9118.3
	State Sector	3599.8	1970.0	127.9	0.0	2097.9	0.0	527.2	6224.9
	Private Sector	0.0	860.0	106.5	220.0	1186.5	0.0	1706.9	2893.4
12	Kerala	1781.5	0.0	256.4	174.0	430.4	0.0	138.8	2350.7
	State Sector	1781.5	0.0	234.6	0.0	234.6	0.0	138.8	2154.9
	Private Sector	0.0	0.0	21.8	174.0	195.8	0.0	0.0	195.8
13	Madhya Pradesh	1703.7	2807.5	0.0	0.0	2807.5	0.0	287.9	4799.0
	State Sector	1703.7	2807.5	0.0	0.0	2807.5	0.0	71.8	4582.9
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	216.1	216.1
14	Maharashtra	3331.8	9200.0	0.0	1092.0	10292.0	0.0	2438.0	16061.8
	State Sector	2884.8	7300.0	0.0	912.0	8212.0	0.0	233.7	11330.6
	Private Sector	447.0	1900.0	0.0	180.0	2080.0	0.0	2204.3	4731.3
15	Meghalaya	156.0	0.0	2.1	0.0	2.1	0.0	31.0	189.1
	State Sector	156.0	0.0	2.1	0.0	2.1	0.0	31.0	189.1
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	Orissa	2061.9	420.0	0.0	0.0	420.0	0.0	64.3	2546.2
	State Sector	2061.9	420.0	0.0	0.0	420.0	0.0	64.3	2546.2
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	Punjab	2230.2	2630.0	0.0	0.0	2630.0	0.0	278.9	5139.1
	State Sector	2230.2	2630.0	0.0	0.0	2630.0	0.0	220.7	5080.9
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	58.3	58.3
18	Rajasthan	988.0	3500.0	0.0	443.8	3943.8	0.0	926.2	5857.9
	State Sector	988.0	3365.0	0.0	443.8	3808.8	0.0	30.3	4827.0
	Private Sector	0.0	135.0	0.0	0.0	135.0	0.0	895.9	1030.9
19	Tamil Nadu	2108.2	3220.0	411.7	1026.3	4658.0	0.0	4865.5	11631.7
	State Sector	2108.2	2970.0	0.0	523.2	3493.2	0.0	85.6	5687.0
	Private Sector	0.0	250.0	411.7	503.1	1164.8	0.0	4780.0	5944.7
20	Uttar Pradesh	524.1	4372.0	0.0	0.0	4372.0	0.0	587.7	5483.8
	State Sector	524.1	4072.0	0.0	0.0	4072.0	0.0	25.1	4621.2
	Private Sector	0.0	300.0	0.0	0.0	300.0	0.0	562.6	862.6
21	Uttarakhand	1652.2	0.0	0.0	0.0	0.0	0.0	132.9	1785.1
	State Sector	1252.2	0.0	0.0	0.0	0.0	0.0	132.9	1385.1
	Private Sector	400.0	0.0	0.0	0.0	0.0	0.0	0.0	400.0

Annexure 3.4 (Contd.)

		Hydro	Thermal			Total Thermal	Nuclear	Renewables	Total
			Steam	Diesel	Gas				
22	West Bengal	977.0	6121.4	12.2	100.0	6233.6	0.0	164.7	7375.3
	State Sector	977.0	4780.0	12.1	100.0	4892.1	0.0	144.5	6013.6
	Private Sector	0.0	1341.4	0.1	0.0	1341.5	0.0	20.2	1361.7
	I.I.E.Ds								
1	A&N Islands	0.0	0.0	60.1	0.0	60.1	0.0	5.3	65.3
	UT Own	0.0	0.0	40.1	0.0	40.1	0.0	5.3	45.3
	Private Sector	0.0	0.0	20.0	0.0	20.0	0.0	0.0	20.0
2	Arunachal Pradesh	0.0	0.0	15.9	0.0	15.9	0.0	67.4	83.3
3	Chandigarh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	D&N Haveli & Daman & Diu	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	Goa	0.0	0.0	0.0	48.0	48.0	0.0	30.1	78.1
	State Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
	Private Sector	0.0	0.0	0.0	48.0	48.0	0.0	30.0	78.0
6	Lakshadweep	0.0	0.0	10.0	0.0	10.0	0.0	0.0	10.0
7	Manipur	0.0	0.0	45.4	0.0	45.4	0.0	5.5	50.9
8	Mizoram	0.0	0.0	51.9	0.0	51.9	0.0	28.5	80.3
9	Nagaland	0.0	0.0	2.0	0.0	2.0	0.0	28.7	30.7
10	Puducerry	0.0	0.0	0.0	32.5	32.5	0.0	0.0	32.5
11	Sikkim	0.0	0.0	5.0	0.0	5.0	0.0	47.1	52.1
12	Tripura	0.0	0.0	4.9	127.5	132.4	0.0	16.0	148.4
	III Central Sector								
	1. DVC	143.2	3560.0	0.0	90.0	3650.0	0.0	0.0	3793.2
	2. HP-NJPC JV	1500.0	0.0	0.0	0.0	0.0	0.0	0.0	1500.0
	3. NEEPCO	755.0	0.0	0.0	375.0	375.0	0.0	0.0	1130.0
	4. NLC	0.0	2490.0	0.0	0.0	2490.0	0.0	0.0	2490.0
	5. NHDC	1520.0	0.0	0.0	0.0	0.0	0.0	0.0	1520.0
	6. NHPC	3647.2	0.0	0.0	0.0	0.0	0.0	0.0	3647.2
	7. NTPC	0.0	25115.0	0.0	4017.2	29132.2	0.0	0.0	29132.2
	8. NPCIL	0.0	0.0	0.0	0.0	0.0	4560.0	0.0	4560.0
	9. NTPC+ ONGC	0.0	0.0	0.0	2220.0	2220.0	0.0	0.0	2220.0
	10. THDC	1000.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
	Total-Central Sector	8565.4	31165.0	0.0	6702.2	37867.2	4560.0	0.0	50992.6
	Total State Sector	27065.0	44977.0	602.6	4046.1	49625.7	0.0	2701.1	79391.9
	Private Sector	1233.0	8056.4	597.1	6307.5	14961.0	0.0	12820.0	29014.0
	Total All India	36863.4	84198.4	1199.8	17055.9	102454.0	4560.0	15521.1	159398.5

INSTALLED CAPACITY (MW) As on 31st March, 2011

		Hydro	Thermal			Total Thermal	Nuclear	Renewables	Total
			Steam	Diesel	Gas				
	I. States								
1	Andhra Pradesh	3695.5	4592.5	36.8	3098.4	7727.7	0.0	767.0	12190.2
	State Sector	3695.5	4592.5	0.0	0.0	4592.5	0.0	193.8	8481.9
	Private Sector	0.0	0.0	36.8	3098.4	3135.2	0.0	573.2	3708.4
2	Assam	100.0	60.0	20.7	263.5	344.2	0.0	27.1	471.3
	State Sector	100.0	60.0	20.7	239.0	319.7	0.0	27.1	446.8
	Private Sector	0.0	0.0	0.0	24.5	24.5	0.0	0.0	24.5
3	Bihar	0.0	530.0	0.0	0.0	530.0	0.0	67.8	597.8
	State Sector	0.0	530.0	0.0	0.0	530.0	0.0	58.3	588.3
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	9.5	9.5
4	Chattisgarh	120.0	3660.0	0.0	0.0	3660.0	0.0	251.0	4031.0
	State Sector	120.0	2060.0	0.0	0.0	2060.0	0.0	19.1	2199.1
	Private Sector	0.0	1600.0	0.0	0.0	1600.0	0.0	231.9	1831.9
5	Delhi	0.0	385.0	0.0	1121.9	1506.9	0.0	2.1	1509.0
	State Sector	0.0	385.0	0.0	1050.4	1435.4	0.0	0.0	1435.4
	Private Sector	0.0	0.0	0.0	71.5	71.5	0.0	2.1	73.6
6	Gujarat	772.0	6850.0	17.5	3470.2	10337.7	0.0	2000.5	13110.2
	State Sector	772.0	4220.0	17.3	892.7	5130.0	0.0	29.9	5931.9
	Private Sector	0.0	2630.0	0.2	2577.5	5207.7	0.0	1970.6	7178.3
7	Haryana	884.5	3410.0	3.9	25.0	3438.9	0.0	105.9	4429.3
	State Sector	884.5	3410.0	3.9	25.0	3438.9	0.0	70.1	4393.5
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	35.8	35.8
8	Himachal Pradesh	971.6	0.0	0.1	0.0	0.1	0.0	375.4	1347.1
	State Sector	393.6	0.0	0.1	0.0	0.1	0.0	375.4	769.1
	Private Sector	578.0	0.0	0.0	0.0	0.0	0.0	0.0	578.0
9	Jharkhand	130.0	1550.0	0.0	0.0	1550.0	0.0	4.1	1684.1
	State Sector	130.0	1190.0	0.0	0.0	1190.0	0.0	4.1	1324.1
	Private Sector	0.0	360.0	0.0	0.0	360.0	0.0	0.0	360.0

Annexure 3.5 (Contd.)

		Hydro	Thermal			Total Thermal	Nuclear	Renewables	Total
			Steam	Diesel	Gas				
10	Jammu & Kashmir	780.0	0.0	8.9	175.0	183.9	0.0	129.3	1093.3
	State Sector	780.0	0.0	8.9	175.0	183.9	0.0	129.3	1093.3
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	Karnataka	3599.8	3680.0	234.4	0.0	3914.4	0.0	2616.2	10130.4
	State Sector	3599.8	2220.0	127.9	0.0	2347.9	0.0	667.2	6614.9
	Private Sector	0.0	1460.0	106.5	0.0	1566.5	0.0	1949.0	3515.5
12	Kerala	1881.5	0.0	256.4	174.0	430.4	0.0	145.9	2457.8
	State Sector	1881.5	0.0	234.6	0.0	234.6	0.0	145.8	2261.9
	Private Sector	0.0	0.0	21.8	174.0	195.8	0.0	0.0	195.9
13	Madhya Pradesh	1703.7	2807.5	0.0	0.0	2807.5	0.0	267.2	4778.3
	State Sector	1703.7	2807.5	0.0	0.0	2807.5	0.0	26.8	4537.9
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	240.4	240.4
14	Maharashtra	3331.8	10200.0	0.0	852.0	11052.0	0.0	2809.3	17193.2
	State Sector	2884.8	7295.0	0.0	672.0	7967.0	0.0	269.2	11121.1
	Private Sector	447.0	2905.0	0.0	180.0	3085.0	0.0	2540.1	6072.1
15	Meghalaya	156.0	0.0	2.1	0.0	2.1	0.0	31.0	189.1
	State Sector	156.0	0.0	2.1	0.0	2.1	0.0	31.0	189.1
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	Orissa	2061.9	1620.0	0.0	0.0	1620.0	0.0	79.6	3761.6
	State Sector	2061.9	420.0	0.0	0.0	420.0	0.0	79.6	2561.6
	Private Sector	0.0	1200.0	0.0	0.0	1200.0	0.0	0.0	1200.0
17	Punjab	2230.2	2630.0	25.0	0.0	2655.0	0.0	329.3	5214.5
	State Sector	2230.2	2630.0	25.0	0.0	2655.0	0.0	243.2	5128.4
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	86.1	86.1
18	Rajasthan	988.0	3885.0	0.0	443.8	4328.8	0.0	1467.8	6784.6
	State Sector	988.0	3615.0	0.0	443.8	4058.8	0.0	30.3	5077.0
	Private Sector	0.0	270.0	0.0	0.0	270.0	0.0	1437.5	1707.5
19	Tamil Nadu	2122.2	3220.0	411.7	1026.3	4658.0	0.0	5812.6	12592.8
	State Sector	2122.2	2970.0	0.0	523.2	3493.2	0.0	89.6	5705.0
	Private Sector	0.0	250.0	411.7	503.1	1164.8	0.0	5723.1	6887.8
20	Uttar Pradesh	524.1	4672.0	0.0	0.0	4672.0	0.0	609.7	5805.8
	State Sector	524.1	4072.0	0.0	0.0	4072.0	0.0	23.3	4619.4
	Private Sector	0.0	600.0	0.0	0.0	600.0	0.0	586.4	1186.4

Annexure 3.5 (Contd.)

		Hydro	Thermal			Total Thermal	Nuclear	Renewables	Total
			Steam	Diesel	Gas				
21	Uttarakhand	1652.2	0.0	0.0	0.0	0.0	0.0	146.2	1798.3
	State Sector	1252.2	0.0	0.0	0.0	0.0	0.0	134.1	1386.3
	Private Sector	400.0	0.0	0.0	0.0	0.0	0.0	12.1	412.1
22	West Bengal	977.0	6121.4	12.2	100.0	6233.6	0.0	161.1	7371.6
	State Sector	977.0	4780.0	12.1	100.0	4892.1	0.0	143.9	6013.0
	Private Sector	0.0	1341.4	0.1	0.0	1341.5	0.0	17.2	1358.7
	II.EDs								
1	A&N Islands	0.0	0.0	60.1	0.0	60.1	0.0	5.4	65.4
	UT Own	0.0	0.0	40.1	0.0	40.1	0.0	5.3	45.3
	Private Sector	0.0	0.0	20.0	0.0	20.0	0.0	0.1	20.1
2	Arunachal Pradesh	0.0	0.0	15.9	0.0	15.9	0.0	78.9	94.7
	State Sector	0.0	0.0	15.9	0.0	15.9	0.0	78.8	94.7
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	Chandigarh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	D&N Haveli & Daman & DIU	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	Goa	0.0	0.0	0.0	48.0	48.0	0.0	30.1	78.1
	State Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
	Private Sector	0.0	0.0	0.0	48.0	48.0	0.0	30.0	78.0
6	Lakshadweep	0.0	0.0	10.0	0.0	10.0	0.0	0.8	10.7
	UT Own	0.0	0.0	10.0	0.0	10.0	0.0	0.0	10.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
7	Manipur	0.0	0.0	45.4	0.0	45.4	0.0	5.5	50.9
8	Mizoram	0.0	0.0	51.9	0.0	51.9	0.0	36.5	88.3
9	Nagaland	0.0	0.0	2.0	0.0	2.0	0.0	28.7	30.7
10	Puducerry	0.0	0.0	0.0	32.5	32.5	0.0	0.0	32.5
	State Sector	0.0	0.0	0.0	32.5	32.5	0.0	0.0	32.5
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	Sikkim	0.0	0.0	5.0	0.0	5.0	0.0	47.1	52.1
12	Tripura	0.0	0.0	4.9	148.5	153.4	0.0	16.0	169.4
	III Central Sector								
	1. DVC	143.2	4200.0	0.0	90.0	4290.0	0.0	0.0	4433.2
	2. HP-NJPC JV	1500.0	0.0	0.0	0.0	0.0	0.0	0.0	1500.0

		Hydro	Thermal			Total Thermal	Nuclear	Renewables	Total
			Steam	Diesel	Gas				
	3. NEEPCO	755.0	0.0	0.0	375.0	375.0	0.0	0.0	1130.0
	4. NLC	0.0	2740.0	0.0	0.0	2740.0	0.0	0.0	2740.0
	5. NHDC	1520.0	0.0	0.0	0.0	0.0	0.0	0.0	1520.0
	6. NHPC	3767.2	0.0	0.0	0.0	0.0	0.0	0.0	3767.2
	7. NTPC	0.0	27105.0	0.0	4017.2	31122.2	0.0	0.0	31122.2
	4. NLC	0.0	2740.0	0.0	0.0	2740.0	0.0	0.0	2740.0
	5. NHDC	1520.0	0.0	0.0	0.0	0.0	0.0	0.0	1520.0
	6. NHPC	3767.2	0.0	0.0	0.0	0.0	0.0	0.0	3767.2
	7. NTPC	0.0	27105.0	0.0	4017.2	31122.2	0.0	0.0	31122.2
	8. NPCIL	0.0	0.0	0.0	0.0	0.0	4780.0	0.0	4780.0
	9. NTPC+ONGC	0.0	0.0	0.0	2220.0	2220.0	0.0	0.0	2220.0
	10. THDC	1200.0	0.0	0.0	0.0	0.0	0.0	0.0	1200.0
	Total- Central Sector	8885.4	34045.0	0.0	6702.2	40747.2	4780.0	0.0	54412.6
	Total State Sector	27257.0	47257.0	627.6	4302.1	52186.7	0.0	3008.9	82452.6
	Private Sector	1425.0	12616.4	597.1	6677.0	19890.5	0.0	15445.7	36761.2
	Total All India	37567.4	93918.4	1224.8	17681.4	112824.5	4780.0	18454.5	173626.4

Year-wise Capacity Addition in XIth Plan (MW)

		2007-08			2008-09			2009-10			2010-11		
		Hydel	Thermal	Total	Hydel	Thermal	Total	Hydel	Thermal	Total	Hydel	Thermal	Total
1	Andhra Pradesh	39.0	210.0	249.0	39.0	0.0	39.0	39.0	1477.0	1516.0	78.0	1008.0	1086.0
	State Sector	39.0	210.0	249.0	39.0	0.0	39.0	39.0	500.0	539.0	78.0	710.0	788.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	977.0	977.0	0.0	298.0	298.0
2	Assam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	State Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	Bihar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	State Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	Chattisgarh	0.0	1000.0	1000.0	0.0	250.0	250.0	0.0	600.0	600.0	0.0	0.0	0.0
	State Sector	0.0	250.0	250.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Private Sector	0.0	750.0	750.0	0.0	250.0	250.0	0.0	600.0	600.0	0.0	0.0	0.0
5	Delhi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	571.5	571.5
	State Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.0	500.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.5	71.5
6	Gujarat	0.0	40.0	40.0	0.0	382.5	382.5	0.0	1874.0	1874.0	0.0	1570.0	1570.0
	State Sector	0.0	40.0	40.0	0.0	0.0	0.0	0.0	449.0	449.0	0.0	250.0	250.0
	Private Sector	0.0	0.0	0.0	0.0	382.5	382.5	0.0	1425.0	1425.0	0.0	1320.0	1320.0
7	Haryana	0.0	600.0	600.0	0.0	0.0	0.0	0.0	600.0	600.0	0.0	600.0	600.0
	State Sector	0.0	600.0	600.0	0.0	0.0	0.0	0.0	600.0	600.0	0.0	600.0	600.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	Himachal Pradesh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	192.0	0.0	192.0
	State Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	192.0	0.0	192.0
9	Jammu & Kashmir	0.0	0.0	0.0	450.0	0.0	450.0	0.0	0.0	0.0	0.0	0.0	0.0
	State Sector	0.0	0.0	0.0	450.0	0.0	450.0	0.0	0.0	0.0	0.0	0.0	0.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	Jharkhand	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	State Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	Karnataka	0.0	500.0	500.0	230.0	0.0	230.0	0.0	600.0	600.0	0.0	850.0	850.0
	State Sector	0.0	500.0	500.0	230.0	0.0	230.0	0.0	0.0	0.0	0.0	250.0	250.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	600.0	600.0	0.0	600.0	600.0

		2007-08			2008-09			2009-10			2010-11		
		Hydel	Thermal	Total	Hydel	Thermal	Total	Hydel	Thermal	Total	Hydel	Thermal	Total
12	Kerala	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0
	State Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	Madhya Pradesh	0.0	500.0	500.0	0.0	210.0	210.0	0.0	0.0	0.0	0.0	0.0	0.0
	State Sector	0.0	500.0	500.0	0.0	210.0	210.0	0.0	0.0	0.0	0.0	0.0	0.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	Maharashtra	0.0	250.0	250.0	250.0	250.0	500.0	0.0	500.0	500.0	0.0	1005.0	1005.0
	State Sector	0.0	250.0	250.0	250.0	250.0	500.0	0.0	500.0	500.0	0.0	0.0	0.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1005.0	1005.0
15	Meghalaya	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	State Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	Orissa	150.0	0.0	150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1200.0	1200.0
	State Sector	150.0	0.0	150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1200.0	1200.0
17	Punjab	0.0	250.0	250.0	0.0	250.0	250.0	0.0	0.0	0.0	0.0	0.0	0.0
	State Sector	0.0	250.0	250.0	0.0	250.0	250.0	0.0	0.0	0.0	0.0	0.0	0.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	Rajasthan	0.0	220.0	220.0	0.0	0.0	0.0	0.0	955.0	955.0	0.0	385.0	385.0
	State Sector	0.0	220.0	220.0	0.0	0.0	0.0	0.0	820.0	820.0	0.0	250.0	250.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	135.0	135.0	0.0	135.0	135.0
19	Tamil Nadu	0.0	0.0	0.0	0.0	92.2	92.2	0.0	0.0	0.0	0.0	0.0	0.0
	State Sector	0.0	0.0	0.0	0.0	92.2	92.2	0.0	0.0	0.0	0.0	0.0	0.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	Uttar Pradesh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300.0	300.0	0.0	300.0	300.0
	State Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300.0	300.0	0.0	300.0	300.0
21	Uttarakhand	304.0	0.0	304.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	State Sector	304.0	0.0	304.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	West Bengal	900.0	1060.0	1960.0	0.0	300.0	300.0	0.0	460.0	460.0	0.0	0.0	0.0
	State Sector	900.0	1060.0	1960.0	0.0	300.0	300.0	0.0	210.0	210.0	0.0	0.0	0.0
	Private Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0	250.0	250.0	0.0	0.0	0.0

		2007-08			2008-09			2009-10			2010-11		
		Hydel	Thermal	Total	Hydel	Thermal	Total	Hydel	Thermal	Total	Hydel	Thermal	Total
	I.EDs												
	1. Arunachal Pradesh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2. Goa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3. Manipur	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4. Mizoram	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	5. Nagaland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6. Pondicherry	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	7. Sikkim	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8. Tripura	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	21.0
	9. A&N Islands	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Sub-total :(II)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	21.0
	Total States+EDs	1393.0	4630.0	6023.0	969.0	1734.7	2703.7	39.0	7366.0	7405.0	370.0	7510.5	7880.5
III. CENTRAL SECTOR													
1	APCPL			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.0	500.0
2	NPCIL		220.0	220.0	0.0	0.0	0.0	0.0	440.0	440.0	0.0	220.0	220.0
3	DVC		250.0	250.0	0.0	0.0	0.0	0.0	500.0	500.0	0.0	1000.0	1000.0
4	NEEPCO			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	NLC			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	250.0	250.0
6	NHPC	510.0		510.0	0.0	0.0	0.0	0.0	0.0	0.0	120.0	0.0	120.0
7	NHDC	520.0	0.0	520.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	THDC			0.0	0.0	0.0	0.0	0.0	0.0	0.0	200.0	0.0	200.0
9	Ratnagiri		740.0	740.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	NTPC		1000.0	1000.0	0.0	750.0	750.0	0.0	1240.0	1240.0	0.0	1990.0	1990.0
	Sub-total :(III)	1030.0	2210.0	3240.0	0.0	750.0	750.0	0.0	2180.0	2180.0	320.0	3960.0	4280.0
	Grand Total	2423.0	6840.0	9263.0	969.0	2484.7	3453.7	39.0	9546.0	9585.0	690.0	11470.5	12160.5

Annexure-3.7

OPERATING AVAILABILITY

(%)

		1991-92	2008-09	2009-10
	Central Sector			
1	DVC		67.73	63.63
2	KBUNL		18.2	31.61
3	NLC		82.46	86.86
	NSPCL			87.22
4	NTPC		91.42	91.73
	Central Sector		72.2	73.24
	Northern Region			
1	HPGCL		79.46	87.47
2	IPGPCL		79.96	66.21
3	PSEB		89.48	91.16
4	RRUVNL		91.02	86.54
5	UPRVUNL		79.89	79.78
	Western Region			
1	CSPGCL		91.67	89.3
2	GMDCL		66.82	75.32
3	GSECL		841.4	81.73
4	MAHAGENCO		86.72	88.34
5	MPGCL		87.58	83.01
	Southern Region			
1	APGENCO	77.4	93.31	90.74
2	KPCL	47.3	79.97	84.33
3	TNEB	38.26	87.6	85.04
	Eastern Region		9.21	
1	BSEB		67.66	16.73
2	DPL		23.59	65.81
3	JSEB		93.15	21.58
4	OPGC		68.1	84.75
5	TVNL		73.78	65.7
6	WBPDC			74.75
	North Eastern Region			
1	APGPCL		0	0

	State Sector		82.8	82.44
	Private Utilities			
1	RIL (DAHANU)		96.35	97.18
2	TATA PCL		94.12	82.34
3	TORRENT POWER		94.68	95.62
4	CESC		88.72	87.97
	Private Utility		94.77	87.88
	All India	72.8	85.05	85.1

§ :1994-95 onwards are the figures for OPGC.

FORCED OUTAGES OF THERMAL STATIONS (%)

S. No.	Agency	1991-92	2008-09	2009-10
I. SPU's				
	Northern Region	17.04		
1	HPGCL	30.94	11.57	9.94
2	PSEB	7.07	6.3	3.98
3	RRVUNL	14.82	4.12	5.33
4	UPRVUNL	27.67	11.45	10.17
5	IPGPCL	16.5	16.23	29.99
	Western Region	11.78		
6	CSPGCL		4.77	4.99
7	GMDCL	10.62	28.44	19.12
8	GSECL		7.31	9.19
9	MAHAGENCO	13.67	7.91	6.95
10	MPPGCL	16.51	8.54	7.28
	Southern Region	12.42		
11	APGENCO	11.28	3.66	2.36
12	TNEB	13.8	6.28	8.41
13	KPCL	8.81	15.54	11.04
	Eastern Region	22.41		
14	BSEB	27.57	56.41	47.79
15	JSEB		45.56	48.25
16	TVNL		31.9	12.82
17	OPGC	26.98	2.06	4.51
18	WBPDC	13.9	24.06	21.48
19	D.P.L.	8.86	30.54	25.46
	N.E.Region	34.39		
20	APGPCL	34.39	100	100
	All SPU's	21.1		
II. Central Sector		13.5	7.02	7.11
1	N.T.P.C	8.3	3.77	4.1
2	NLC	16.07	10.39	3.84
3	D.V.C.	35.77	27.14	32.28
4	K.B.U.N.L		31.8	18.39

5	NSPCL			9.47
III. Private Sector		8.6	4.41	8.75
1	TOR. POWER (A.E.Co.)	14.53	3.85	1.79
2	TATA PCL	8.38	1.28	13.14
3	C.E.S.C.	7.63	9.51	9.4
4	RIL (DHANU)		1.46	0.64
IV	IPPs			4.43
	RWPL (JSW)		-	35.01
	APL		-	3.23
	GIPCL		-	8.08
	JPL		-	4.17
	JSWEL		-	1.26
	ST-CMSECP		-	5.44
	TATA PCL		-	4.54
IV.	All India	15.19	9.29	8.85

§ : 1994-95 onwards figures are for OPGC.

Annexure 3.9

PLANT LOAD FACTOR OF THERMAL STATIONS (%)

S.No.	Agency	1990-91	1991-92	2006-07	2007-08	2008-09	2009-10	2010-11
I.SPUs								
	Northern Region	55.2	58.8	79.62	81.39	81.79	82.99	78.68
1	Haryana	34.5	45.8	78.02	78.18	73.68	83.09	76.48
2	Punjab	52.9	52.8	83.11	87.65	85.48	88.43	79.84
3	Rajasthan	42.8	65.7	91.38	90.35	88.86	83.55	79.24
4	U.P.	52.1	44.3	58.15	56.33	61.69	64.26	60.43
5	Delhi (DVB)	50.7	57.2	47.37	57.3	54.68	38.81	66.08
	Western Region	57.7	59.6	79.34	80.32	79.45	79.21	75.25
6	Chattisgarh			82.29	80.75	85.91	85.25	
7	Gujarat	57.7	56.9	73.51	74.5	76.18	71.92	67.32
8	Maharashtra	58.1	61.3	74.74	76.09	70.6	69.71	59.03
9	Madhya Pradesh	52.7	49.2	70.07	67.28	64.79	62.33	61.1
	Southern Region	61.7	60.8	83.87	84.92	83.3	84.39	80.43
10	Andhra Pradesh	65.8	62.1	86.12	86.83	87.77	86.67	80.49
11	Tamil Nadu	58.3	55.7	81.45	81.83	80.8	76.42	73.36
12	Karnataka	76.2	59.1	89.18	84.2	71.05	76.85	63.02
	Eastern Region	36.5	37.3	68.27	69.55	64.66	64.71	66.58
13	Bihar	23.9	21.3	0.79	3.03	3.67	9.6	8.12
14	Jharkhand			30.16	22.53	29.31	29.79	30.02
15	Orissa *	33.9	30	90.18	82.59	86.72	80.49	86.56
16	West Bengal	30.9	30.8	61.77	64.7	56.44	57.28	57.34
	WBPDCL	57.3	61.4	61.77	64.7	57.53	59.01	62.52
	DPL	24.4	17.8	61.77	64.7	50.64	47.25	26.61
	N.E.Region	24.6	24.6	16.85	20.37	47.62	0	0
17	Assam	24.6	24.6	0	0	0	0	0
	All SPU's	51.3	50.6	71.71	71.89	71.13	66.72	66.72
II. Central Sector		58.1	64.5	84.2	86.74	85.48	85.64	85.12
1	N.T.P.C.(STPS)	60.9	69.2	89.33	90.42	89.86	90.79	88.27
2	NLC	69.8	66.3	72.4	79.75	72.28	80.94	80.75
3	D.V.C.	33.3	33.6	56.3	62.76	57.17	54.19	65.12
III. Private Sector		58.4	64.5	86.35	90.77	91.04	82.41	76.7
1	A.E.Co.	67.1	67.3	95.32	100	98.74	95.23	84.03
2	Trombay	54.6	53	77.84	85.78	87.63	71.38	64.92
3	C.E.S.C.	60.8	58.3	84.97	87.77	87.12	82.82	77.79
4	BSES			101.79	101.24	100.99	102.33	101
5	JSWEL			-	-	-	84.29	95.93
6	JPL			-	-	-	93.01	98.14
7	GIPCL			-	-	-	83.41	79.44
8	RWPL (JSW)			-	-	-	44.03	51.93
IV. All India		53.9	55.3	77.27	78.61	77.27	77.68	75.08

GROSS GENERATION (MKWH)

		2006-07	2007-08	2008-09	2009-10	2010-11
	I. States					
1	Andhra Pradesh	38261.13	43365.38	42439.10	49470.85	57116.16
	<i>State Sector</i>	<i>33109.73</i>	<i>35079.17</i>	<i>34033.33</i>	<i>32388.99</i>	<i>37450.70</i>
	<i>Private Sector</i>	<i>5151.40</i>	<i>8286.21</i>	<i>8405.77</i>	<i>17081.86</i>	<i>19665.46</i>
2	Assam	982.07	1643.13	1859.22	1789.46	1702.84
	<i>State Sector</i>	<i>867.54</i>	<i>1548.81</i>	<i>1755.16</i>	<i>1709.11</i>	<i>1702.84</i>
	<i>Private Sector</i>	<i>114.53</i>	<i>94.32</i>	<i>104.06</i>	<i>80.35</i>	
3	Bihar	104.46	322.93	498.59	264.71	220.44
	<i>State Sector</i>	<i>104.46</i>	<i>322.93</i>	<i>498.59</i>	<i>264.71</i>	<i>220.44</i>
	<i>Private Sector</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>
4	Chattisgarh	9609.71	11646.77	20563.86	23223.80	26304.56
	<i>State Sector</i>	<i>9609.71</i>	<i>10350.36</i>	<i>13533.43</i>	<i>13547.98</i>	<i>14001.08</i>
	<i>Private Sector</i>	<i>0.00</i>	<i>1296.41</i>	<i>7030.43</i>	<i>9675.82</i>	<i>12303.48</i>
5	Delhi	5013.60	5312.90	5195.40	4596.96	4580.46
	<i>State Sector</i>	<i>5013.60</i>	<i>5312.90</i>	<i>5195.40</i>	<i>4596.96</i>	<i>4491.66</i>
	<i>Private Sector</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>88.80</i>
6	Goa	354.59	431.79	417.85	320.92	292.28
	<i>State Sector</i>	<i>0.00</i>	<i>0.00</i>	<i>0.18</i>	<i>0.00</i>	<i>0.00</i>
	<i>Private Sector</i>	<i>354.59</i>	<i>431.79</i>	<i>417.67</i>	<i>320.92</i>	<i>292.28</i>
7	Gujarat	44352.89	48292.09	46833.79	55261.73	61827.88
	<i>State Sector</i>	<i>29568.53</i>	<i>32741.33</i>	<i>30912.07</i>	<i>33453.79</i>	<i>33523.98</i>
	<i>Private Sector</i>	<i>14784.36</i>	<i>15550.76</i>	<i>15921.72</i>	<i>21807.94</i>	<i>28303.90</i>
8	Haryana	14141.69	14569.13	17530.69	14559.21	15560.53
	<i>State Sector</i>	<i>10780.50</i>	<i>14540.22</i>	<i>17505.24</i>	<i>14559.21</i>	<i>15560.53</i>
	<i>Private Sector</i>	<i>0.00</i>	<i>28.91</i>	<i>25.45</i>	<i>0.00</i>	<i>0.00</i>
9	Himachal Pradesh	3057.11	3709.18	4065.44	3131.47	3690.33
	<i>State Sector</i>	<i>1455.64</i>	<i>2091.97</i>	<i>2413.49</i>	<i>1526.25</i>	<i>1738.59</i>
	<i>Private Sector</i>	<i>1601.47</i>	<i>1617.21</i>	<i>1651.95</i>	<i>1605.22</i>	<i>1951.74</i>
10	Jammu & Kashmir	1327.17	1542.86	2229.92	3312.45	3552.20
	<i>State Sector</i>	<i>1327.17</i>	<i>1542.86</i>	<i>2229.92</i>	<i>3312.45</i>	<i>3552.20</i>
	<i>Private Sector</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>
11	Jharkhand	6268.47	5129.01	5672.17	5673.37	5681.91
	<i>State Sector</i>	<i>3537.08</i>	<i>2719.04</i>	<i>3486.88</i>	<i>3297.16</i>	<i>3133.24</i>
	<i>Private Sector</i>	<i>2731.39</i>	<i>2409.97</i>	<i>2185.29</i>	<i>2376.21</i>	<i>2548.67</i>

		2006-07	2007-08	2008-09	2009-10	2010-11
12	Karnataka	31122.81	32743.48	32884.45	31469.98	31999.42
	<i>State Sector</i>	26683.44	26642.13	26418.74	26018.54	22720.98
	<i>Private Sector</i>	4439.37	6101.35	6465.71	5451.44	9278.44
13	Kerala	7960.44	9241.54	7576.32	7586.29	7359.90
	<i>State Sector</i>	7743.53	8833.27	6633.18	7008.02	7136.85
	<i>Private Sector</i>	216.91	408.27	943.14	578.27	223.05
14	Madhya Pradesh	18956.62	19343.42	19744.36	17740.47	17395.80
	<i>State Sector</i>	18846.29	19260.01	19465.43	17740.47	17395.80
	<i>Private Sector</i>	110.33	83.41	278.93	0.00	0.00
15	Maharashtra	68962.87	72770.46	69904.57	66782.37	65790.57
	<i>State Sector</i>	51494.86	54522.61	51321.00	50623.87	47504.41
	<i>Private Sector</i>	17468.01	18247.85	18583.57	16158.50	18286.16
16	Meghalaya	394.51	657.71	615.63	481.33	283.23
17	Orissa	10785.99	11091.59	9142.21	7272.95	9335.22
	<i>State Sector</i>	10785.99	11091.59	9142.21	6881.14	7938.97
	<i>Private Sector</i>	0	0	0	391.81	1396.25
18	Punjab	24107.43	26314.64	27710.86	23458.27	22515.64
	<i>State Sector</i>	24107.43	26148.85	27566.04	23458.27	22515.64
	<i>Private Sector</i>	0	165.79	144.82	0	0
19	Rajasthan	22722.08	25675.64	26405.25	22896.44	24793.21
	<i>State Sector</i>	22225.33	24884.57	25324.12	22673	23832.06
	<i>Private Sector</i>	496.75	791.07	1081.13	223.44	961.15
20	Tamil Nadu	40734.22	43222.42	43871.83	34880.21	32565.71
	<i>State Sector</i>	29510	28576.24	29121.13	27720.41	25478.54
	<i>Private Sector</i>	11224.22	14646.18	14750.7	7159.8	7087.17
21	Uttar Pradesh	22969.2	22709.86	25190.59	23948.36	25129.95
	<i>State Sector</i>	22969.2	22054.25	23596.31	23824.01	22256.78
	<i>Private Sector</i>	0	655.61	1594.28	124.35	2873.17
22	Uttarakhand	4340.13	5542.33	6828.12	5930.91	6773.63
	<i>State Sector</i>	4293.66	3671.22	4794.68	3953.56	4750.91
	<i>Private Sector</i>	46.47	1871.11	2033.44	1977.35	2022.72
23	West Bengal	25783.39	27615.76	29414.82	33052.07	33996.48
	<i>State Sector</i>	17829	19469.61	21276.14	25046.97	25139.11
	<i>Private Sector</i>	7954.39	8146.15	8138.68	8005.1	8857.37
	Sub-total :(I)	402312.58	432894.02	446595.04	437104.58	458468.35

Annexure 3.10 (Contd.)

		2006-07	2007-08	2008-09	2009-10	2010-11
	II.EDs					
1	A&N Islands	183.22	210.99	218.35	214.35	216.93
	<i>State Sector</i>	74.28	98.27	88.18	79.75	86.76
	<i>Private Sector</i>	108.94	112.72	130.17	134.6	130.17
2	Arunachal Pradesh	72	165.57	174.56	18.07	
3	Lakshdweep	28.15	29.88	31.71	26.72	
4	Manipur	5.98	21.08	18.87	0.27	0
5	Mizoram	12.11	64.69	61.46	0.55	
6	Nagaland	33.58	101.81	96.74	71.09	
7	Pondicherry	270.6	263.65	257.57	225.47	
8	Sikkim	35.15	139.06	138.86	42.26	
9	Tripura	557.67	677.08	662.51	619.79	669.32
	Sub-total :(II)	1198.46	1673.81	1660.63	1218.57	886.25
III. CENTRAL SECTOR:						
1	NTPC	189661.03	200853.01	206913.93	218836.33	220653.73
2	NLC	15792.52	17445.61	15765.68	17657.41	17879.32
3	NEEPCO	2458.1	2388.73	5410.17	4557.34	5081.16
4	RGPPL	3727.36	7939.95	5208.53	8290.55	11876.85
5	NSPCL			95.24	2418.38	4017.92
6	KBUNL			225.59	460.58	319.57
7	DVC	14136.41	15705.33	15752.81	14878.95	16664.86
8	BBMB	10064.34	10959.91	11109.07	9371.32	11273.43
9	NHDC	2606	3425.44	2367.49	3071.23	3197.72
10	NHPC	13049	14811.11	16690.92	16960.47	18603.45
11	SJVNL	6001	6404.58	6608.76	7018.86	7140.09
12	THDC	890	2663.54	3172.32	2116.78	3116.03
13	NPCIL	18802	16776.91	14712.59	18636.44	26266.4
	Total Central Sector	277188	299374.12	292913	324274.64	346090.53
	Imports from Bhutan	3010.08	5277.94	5899.1	5359	5610.9
	Total All India	670654	739219.89	741174	767956.79	811056.03

Annexure 3.11

Gross Generation (Mkwh) - 2006-07

		Hydro		Sub-Total	Thermal		Sub-Total	Nuclear Renewables SEB/COR.	PVT.	Sub-Total	Total
		SEB/COR.	PVT.		SEB/COR.	PVT.					
	I.States										
1	Andhra Pradesh	9524.4	0.0	9524.4	23580.4	5007.2	28587.6	5.0	144.2	149.2	38261.1
2	Assam	15.4	0.0	15.4	852.1	114.5	966.6	0.0	0.0	0.0	982.1
3	Bihar	67.2	0.0	67.2	37.3	0.0	37.3	0.0	0.0	0.0	104.5
4	Chattisgarh	382.2	0.0	382.2	9227.5	0.0	9227.5	0.0	0.0	0.0	9609.7
5	Delhi	0.0	0.0	0.0	5013.6	0.0	5013.6	0.0	0.0	0.0	5013.6
6	Gujarat	1849.2	0.0	1849.2	27594.9	14453.9	42048.7	124.5	330.4	454.9	44352.8
7	Haryana	3376.5	0.0	3376.5	10765.2	0.0	10765.2	0.0	0.0	0.0	14141.7
8	Himachal Pradesh	1455.6	1601.5	3057.1	0.0	0.0	0.0	0.0	0.0	0.0	3057.1
9	Jammu & Kashmir	1314.7	0.0	1314.7	12.4	0.0	12.4	0.0	0.0	0.0	1327.2
10	Jharkhand	208.5	0.0	208.5	3328.6	2731.4	6060.0	0.0	0.0	0.0	6268.5
11	Karnataka	15045.5	222.3	15267.8	11623.0	2834.3	14457.3	14.9	1382.7	1397.7	31122.8
12	Kerala	7496.6	0.0	7496.6	246.9	216.9	463.8	0.0	0.0	0.0	7960.5
13	Madhya Pradesh	5077.8	39.9	5117.7	13768.5	0.0	13768.5	0.0	70.4	70.4	18956.6
14	Maharashtra	6205.5	2137.7	8343.2	45289.3	13638.8	58928.2	0.0	1691.5	1691.5	68962.9
15	Meghalaya	394.5	0.0	394.5	0.0	0.0	0.0	0.0	0.0	0.0	394.5
16	Orissa	7468.2	0.0	7468.2	3317.8	0.0	3317.8	0.0	0.0	0.0	10786.0
17	Punjab	8672.8	0.0	8672.8	15434.6	0.0	15434.6	0.0	0.0	0.0	24107.4
18	Rajasthan	3191.8	0.0	3191.8	18978.2	0.0	18978.2	55.4	496.8	552.2	22722.1
19	Tamil Nadu	6320.4	0.0	6320.4	23172.1	5744.0	28916.1	17.6	5480.2	5497.8	40734.3
20	Uttar Pradesh	1483.4	0.0	1483.4	21485.8	0.0	21485.8	0.0	0.0	0.0	22969.2
21	Uttarakhand	4293.7	0.0	4293.7	0.0	0.0	0.0	46.5	0.0	46.5	4340.1
22	West Bengal	433.4	0.0	433.4	17395.6	7954.4	25350.0	0.0	0.0	0.0	25783.4
	Sub-total :(I)	84277.3	4001.4	88278.7	251123.7	52695.4	303819.2	263.9	9596.3	9860.1	401958.0
	II. EDs										
1	A&N Islands	9.3	0.0	9.3	64.9	108.9	173.9	0.0	0.0	0.0	183.2
2	Arunachal Pradesh	65.0	0.0	65.0	7.0	0.0	7.0	0.0	0.0	0.0	72.0
3	Goa	0.0	0.0	0.0	0.0	354.6	354.6	0.2	0.0	0.0	354.6

Annexure 3.11 (Contd.)

		Hydro		Sub-Total	Thermal		Sub-Total	Nuclear Renewables SEB/COR.	PVT.	Sub-Total	Total
		SEB/COR.	PVT.		SEB/COR.	PVT.					
4	Lakshdweep	0.0	0.0	0.0	28.2	0.0	28.2	0.0	0.0	0.0	28.2
5	Manipur	2.8	0.0	2.8	3.2	0.0	3.2	0.0	0.0	0.0	6.0
6	Mizoram	8.6	0.0	8.6	3.5	0.0	3.5	0.0	0.0	0.0	12.1
7	Nagaland	33.5	0.0	33.5	0.1	0.0	0.1	0.0	0.0	0.0	33.6
8	Puducherry	0.0	0.0	0.0	270.6	0.0	270.6	0.0	0.0	0.0	270.6
9	Sikkim	35.0	0.0	35.0	0.2	0.0	0.2	0.0	0.0	0.0	35.2
10	Tripura	46.3	0.0	46.3	511.4	0.0	511.4	0.0	0.0	0.0	557.7
	Sub-total (II)	200.6	0.0	200.6	889.0	463.5	1352.5	0.2	0.0	0.2	1553.3
	III. Central Sector:	25022.4	0.0	25022.4	223318.8	0.0	223318.8	18802.0	0.0	18802.0	267143.1
	Grand Total :	109500.3	4001.4	113501.6	475331.5	53159.0	528490.4	19066.1	9596.3	28662.4	670654.4

Annexure 3.12

Gross Generation (Mkwh)-2007-08

		Hydro		Sub-Total	Thermal		Sub-Total	Nuclear Renewables SEB/COR.	PVT.	Sub-Total	Total
		SEB/COR.	PVT.		SEB/COR.	PVT.					
	I. States										
1	Andhra Pradesh	9533.8	0.0	9533.8	24830.5	6457.1	31287.7	639.3	1829.1	2468.4	43289.9
2	Assam	510.2	0.0	510.2	1031.1	94.3	1125.5	7.5	0.0	7.5	1643.1
3	Bihar	0.0	0.0	0.0	144.0	0.0	144.0	179.0	0.0	179.0	322.9
4	Chattisgarh	221.5	0.0	221.5	10064.8	555.5	10620.2	64.1	741.0	805.1	11646.8
5	Delhi	0.0	0.0	0.0	5312.9	0.0	5312.9	0.0	0.0	0.0	5312.9
6	Gujarat	1950.6	0.0	1950.6	30334.1	14712.8	45046.9	42.2	838.0	880.1	47877.6
7	Haryana	3367.9	0.0	3367.9	10949.7	0.0	10949.7	222.7	28.9	251.6	14569.1
8	Himachal Pradesh	1571.3	1617.2	3188.5	0.0	0.0	0.0	520.6	0.0	520.6	3709.2
9	Jammu & Kashmir	1132.3	0.0	1132.3	13.4	0.0	13.4	397.1	0.0	397.1	1542.8
10	Jharkhand	210.8	0.0	210.8	2493.8	2410.0	4903.8	14.4	0.0	14.4	5129.0
11	Karnataka	14370.5	0.0	14370.5	11089.1	3076.6	14165.7	1663.4	3024.7	4688.1	33224.3
12	Kerala	8107.7	0.0	8107.7	374.1	408.3	782.4	348.4	0.0	348.5	9238.6
13	Madhya Pradesh	5364.2	0.0	5364.2	13682.1	0.0	13682.1	182.1	83.4	265.5	19311.8
14	Maharashtra	5444.3	1489.2	6933.5	47688.3	14460.9	62149.1	759.7	2297.8	3057.5	72140.1
15	Meghalaya	547.5	0.0	547.5	0.0	0.0	0.0	110.2	0.0	110.2	657.7
16	Orissa	8013.7	0.0	8013.7	3047.2	0.0	3047.2	25.9	0.0	25.9	11086.8
17	Punjab	9252.2	0.0	9252.2	16456.7	0.0	16456.7	440.0	165.8	605.8	26314.6
18	Rajasthan	3670.2	0.0	3670.2	21064.7	0.0	21064.7	93.5	791.1	884.6	25619.4
19	Tamil Nadu	6185.6	0.0	6185.6	22774.2	7351.4	30125.6	353.3	7294.8	7648.0	43959.2
20	Uttar Pradesh	924.4	0.0	924.4	21040.7	0.0	21040.7	89.1	655.6	744.7	22709.9
21	Uttarakhand	3377.8	1871.0	5248.9	0.0	0.0	0.0	293.4	0.0	293.4	5542.3
22	West Bengal	756.0	0.0	756.0	18362.6	8146.1	26508.7	349.5	0.1	349.6	27614.2
	Sub-total :(I)	84512.6	4977.5	89490.0	260753.9	57672.9	318426.8	6795.2	17750.2	24545.4	432462.2

Annexure 3.12 (Contd.)

		Hydro		Sub-Total	Thermal		Sub-Total	Nuclear Renewables SEB/COR.	PVT.	Sub-Total	Total
		SEB/COR.	PVT.		SEB/COR.	PVT.					
	II. EDs										
1	A&N Islands	0.0	0.0	0.0	79.6	112.6	192.2	18.6	0.1	18.8	211.0
2	Arunachal Pradesh	0.0	0.0	0.0	4.9	0.0	4.9	160.7	0.0	160.7	165.6
3	Goa	0.0	0.0	0.0	0.0	326.8	326.8	0.2	105.0	105.1	432.0
4	Lakshdweep	0.0	0.0	0.0	29.9	0.0	29.9	0.0	0.0	0.0	29.9
5	Manipur	0.0	0.0	0.0	1.7	0.0	1.7	19.4	0.0	19.4	21.1
6	Mizoram	0.0	0.0	0.0	2.7	0.0	2.7	62.0	0.0	62.0	64.7
7	Nagaland	0.0	0.0	0.0	0.0	0.0	0.0	101.8	0.0	101.8	101.8
8	Puducherry	0.0	0.0	0.0	263.6	0.0	263.6	0.0	0.0	0.0	263.7
9	Sikkim	0.0	0.0	0.0	0.2	0.0	0.2	138.9	0.0	138.9	139.1
10	Tripura	0.0	0.0	0.0	620.2	0.0	620.2	56.9	0.0	56.9	677.1
	Sub-total :(II)	0.0	0.0	0.0	1002.8	439.4	1442.2	558.4	105.1	663.6	2105.8
	III. Central Sector:	30896.6	0.0	30896.6	240203.9	0.0	240203.9	16957.0	0.0	16957.0	288057.5
	Grand Total :	115409.2	4977.5	120386.7	501960.6	58112.3	560072.9	24310.6	17855.3	42166.0	722625.5

Annexure 3.13

Gross Generation (Mkwh) - 2008-09

		Hydro		Sub-Total	Thermal		Sub-Total	Nuclear Renewables SEB/COR.	PVT.	Sub-Total	Total
		SEB/COR.	PVT.		SEB/COR.	PVT.					
	I. States										
1	Andhra Pradesh	7755.1	0.0	7755.1	25677.9	6703.0	32380.9	600.4	1702.7	2303.1	42439.1
2	Assam	416.5	0.0	416.5	1247.2	104.1	1351.3	91.5	0.0	91.5	1859.2
3	Bihar	0.0	0.0	0.0	328.5	0.0	328.5	170.1	0.0	170.1	498.6
4	Chattisgarh	262.0	0.0	262.0	13210.5	6368.4	19578.9	60.9	662.1	723.0	20563.9
5	Delhi	0.0	0.0	0.0	5195.4	0.0	5195.4	0.0	0.0	0.0	5195.4
6	Gujarat	920.5	0.0	920.5	29943.3	13961.2	43904.5	48.3	1960.5	2008.8	46833.8
7	Haryana	3471.2	0.0	3471.2	13822.5	0.0	13822.5	211.6	25.5	237.0	17530.7
8	Himachal Pradesh	1788.9	1652.0	3440.8	0.0	0.0	0.0	624.6	0.0	624.6	4065.4
9	Jammu & Kashmir	1835.7	0.0	1835.7	16.9	0.0	16.9	377.3	0.0	377.3	2229.9
10	Jharkhand	237.6	0.0	237.6	3235.6	2185.3	5420.9	13.7	0.0	13.7	5672.2
11	Karnataka	12797.7	0.0	12797.7	12108.0	3654.9	15762.9	1513.0	2810.8	4323.8	32884.5
12	Kerala	5612.7	0.0	5612.7	653.5	943.1	1596.6	366.6	0.0	366.6	7575.9
13	Madhya Pradesh	3939.2	0.0	3939.2	15285.3	0.0	15285.3	241.0	278.9	519.9	19744.4
14	Maharashtra	4113.8	1150.5	5264.3	46492.4	14267.8	60760.1	714.9	3165.3	3880.2	69904.6
15	Meghalaya	510.9	0.0	510.9	0.0	0.0	0.0	104.7	0.0	104.7	615.6
16	Orissa	5842.6	0.0	5842.6	3190.6	0.0	3190.6	109.0	0.0	109.0	9142.2
17	Punjab	9081.6	0.0	9081.6	18066.4	0.0	18066.4	418.1	144.8	562.9	27710.9
18	Rajasthan	2934.5	0.0	2934.5	22300.0	0.0	22300.0	89.6	1081.1	1170.7	26405.3
19	Tamil Nadu	5200.9	0.0	5200.9	23587.2	7815.6	31402.8	333.1	6935.1	7268.2	43871.8
20	Uttar Pradesh	1128.2	0.0	1128.2	22383.4	0.0	22383.4	84.7	1594.3	1679.0	25190.6
21	Uttarakhand	4423.8	2033.4	6457.2	0.0	0.0	0.0	370.9	0.1	371.0	6828.1
22	West Bengal	741.8	0.0	741.8	20200.3	8138.6	28339.0	334.0	0.1	334.1	29414.8
	Sub-total : (I)	73015.1	4835.8	77850.9	276944.8	64141.9	341086.7	6877.8	20361.3	27239.1	446176.8
	II. EDs										
1	A&N Islands	0.0	0.0	0.0	70.5	130.0	200.5	17.7	0.1	17.9	218.4
2	Arunachal Pradesh	0.0	0.0	0.0	21.9	0.0	21.9	152.7	0.0	152.7	174.6
3	Goa	0.0	0.0	0.0	0.0	334.6	334.6	0.2	83.1	83.2	417.9

4	Lakshdweep	0.0	0.0	0.0	31.0	0.0	31.0	0.8	0.0	0.8	31.7
5	Manipur	0.0	0.0	0.0	0.5	0.0	0.5	18.4	0.0	18.4	18.8
6	Mizoram	0.0	0.0	0.0	2.5	0.0	2.5	59.0	0.0	59.0	61.5
7	Nagaland	0.0	0.0	0.0	0.0	0.0	0.0	96.7	0.0	96.7	96.7
8	Puducherry	0.0	0.0	0.0	257.5	0.0	257.5	0.0	0.0	0.0	257.6
9	Sikkim	0.0	0.0	0.0	0.1	0.0	0.1	138.7	0.0	138.7	138.9
10	Tripura	0.0	0.0	0.0	608.5	0.0	608.5	54.0	0.0	54.0	662.5
	Sub-Total : (II)	0.0	0.0	0.0	992.5	464.7	1457.1	538.2	83.2	621.4	2078.5
	III. Central Sector:	32247.6	0.0	32247.6	245738.0	0.0	245738.0	14927.0	0.0	14927.0	292912.6
	Grand Total :	105262.7	4835.8	110098.5	523675.2	64606.6	588281.8	22343.0	20444.5	42787.5	741167.8

Annexure 3.14**GROSS GENERATION (Owned Units)**

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Prov.)	2010-11 (RE)	2011-12 (AP)
<u>I.SPUs</u>					
1. Andhra Pradesh	33323.33	33475.26	32110.1	37923.21	46042.42
2. Assam	1541.32	1662.36	1753.71	1805	2030.3
3. Bihar	132.75	102.14	264.71	300	380
4. Chhatisgarh	10341	13518	13545	13142	13187
5. Delhi	5572.00	5513.00	5044.69	5159.00	10263.00
6. Gujarat	29242	28405	28332	30669	31489
7. Haryana	10959.63	13519.16	15102.2	21129	23376.75
8. Himachal Pradesh	1769.368	1973.074	1711.49	1889	1971.88
9. Jammu & Kashmir	879.349	1665.728	2122.45	2330.979	2364.16
10. Jharkhand	913.2	1340	1286.585	712.06	2400
11. Karnataka	25613	25080	26020	23246	31133
12. Kerala	8703.55	6494.5	7240.38	7345.56	7797.58
13. Madhya Pradesh	16553.94	17916.72	16909.82	17638	21242
14. Maharashtra	52294	50399	51050	50961	66777
15. Meghalaya	665.38	554.13	536.15	528.28	755.93
16. Orissa	10894.00	8989.00	7160.61	9096.47	9307.40
17. Punjab	25500.34	26851.12	27662.17	26755.24	27481
18. Rajasthan	20490.58	21725.45	22312.65	26545.98	30825.53
19. Tamil Nadu	29241	28983	27860	27586	33289
20. Uttar Pradesh	21966.36	23480.95	23847	24454	27296
21. Uttrakhand	3513.14536	4612.619189	4126.026398	4811.98385	4784
22. West Bengal	780.6	961.41	1132.96	1063.44	1163.44
Sub-total (SPUs)	310889.8424	317221.6212	317130.7014	335091.203	395356.39
<u>Electricity Departments</u>					
1. Arunachal Pradesh	57.102	83.7	92.08	100.664	138.485298
2. Goa	0	0	0	0	0
3. Manipur	1.7303	0.6478	2.0347	4.2632	5.7646
4. Mizoram	18.9185	10.926	17.53	33.18	33.18
5. Nagaland	79.58	81.16	78.81	79.61	79.61
6. Pondicherry	273.61	257.46	221.32	221.25	248.5
7. Sikkim	46.41	48.15	38.86	44.2	50.2
8. Tripura	620.22	658.62	658.35	762.6	794.55
Sub-total (Eds) :	1097.5708	1140.6638	1108.9847	1245.7672	1350.2899
Total	311987.4132	318362.285	318239.6861	336336.97	396706.68

AUXILIARY CONSUMPTION (Owned Units) (%)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Prov.)	2010-11 (RE)	2011-12 (AP)
<u>LSPUs</u>					
1. Andhra Pradesh	6.90	7.34	7.87	7.40	7.54
2. Assam	4.38	3.83	5.35	5.37	5.75
3. Bihar	13.86	8.62	14.40	14.00	12.11
4. Chhatisgarh	8.90	8.56	8.70	9.14	9.15
5. Delhi	6.42	6.64	5.65	4.34	3.67
6. Gujarat	8.81	8.84	8.38	8.38	8.30
7. Haryana	9.84	9.56	9.61	8.68	8.27
8. Himachal Pradesh	0.34	0.00	0.00	0.00	0.00
9. Jammu & Kashmir	1.00	1.00	1.00	1.00	1.00
10. Jharkhand	16.81	13.15	9.16	9.65	9.39
11. Karnataka	4.49	4.92	4.93	5.27	5.69
12. Kerala	0.64	0.83	0.70	0.62	0.70
13. Madhya Pradesh	8.01	8.18	8.70	8.07	7.85
14. Maharashtra	7.49	8.14	8.33	8.39	8.66
15. Meghalaya	0.31	0.23	0.25	0.40	0.40
16. Orissa	3.89	5.46	5.96	5.09	5.06
17. Punjab	6.10	6.18	6.36	6.08	6.41
18. Rajasthan	9.14	9.15	9.02	8.58	8.64
19. Tamil Nadu	6.89	6.95	6.97	6.79	6.80
20. Uttar Pradesh	10.22	10.36	10.22	10.08	9.88
21. Uttrakhand	0.29	0.32	0.33	0.30	0.35
22. West Bengal	5.75	5.83	5.01	5.50	5.20
Average of SPU's :	7.11	7.43	7.50	7.35	7.39
<u>Electricity Departments</u>					
1. Arunachal Pradesh	0.77	0.84	0.77	0.77	0.62
2. Goa	0.00	0.00	0.00	0.00	0.00
3. Manipur	1.49	0.28	1.19	4.17	0.42
4. Mizoram	2.10	2.52	1.13	1.66	1.25
5. Nagaland	7.07	6.96	6.92	6.85	6.85
6. Pondicherry	5.98	5.90	6.41	6.00	6.00
7. Sikkim	0.43	0.31	0.31	2.71	2.39
8. Tripura	1.47	1.46	1.47	0.98	0.98
Average of EDs :	2.93	2.77	2.74	2.32	2.27
Average - All States & UTs	7.09	7.41	7.49	7.33	7.37

Annexure 3.16**NET GENERATION OF ELECTRICITY (Owned Units)**

(MKwh)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Prov.)	2010-11 (RE)	2011-12 (AP)
<u>LSPUs</u>					
1. Andhra Pradesh	31022.63	31019.43	29581.59	35117.88	42572.47
2. Assam	1473.77	1598.68	1659.84	1708.10	1913.56
3. Bihar	114.35	93.34	226.60	258.00	334.00
4. Chhatisgarh	9420.31	12360.94	12366.00	11941.00	11981.00
5. Delhi	5214.00	5147.00	4759.51	4935.00	9886.00
6. Gujarat	26666.00	25895.00	25957.00	28100.00	28875.00
7. Haryana	9881.27	12227.15	13650.53	19294.86	21442.65
8. Himachal Pradesh	1763.43	1973.07	1711.49	1889.00	1971.88
9. Jammu & Kashmir	870.56	1649.07	2101.23	2307.67	2340.52
10. Jharkhand	759.68	1163.76	1168.69	643.31	2174.66
11. Karnataka	24463.00	23845.00	24737.00	22020.00	29361.00
12. Kerala	8647.69	6440.44	7189.51	7300.37	7742.97
13. Madhya Pradesh	15227.99	16451.37	15439.09	16215.44	19575.02
14. Maharashtra	48379.00	46295.00	46797.00	46685.00	60997.00
15. Meghalaya	663.35	552.84	534.79	526.17	752.91
16. Orissa	10470.00	8498.00	6733.93	8633.47	8836.40
17. Punjab	23944.33	25192.80	25901.73	25128.24	25719.00
18. Rajasthan	18618.22	19736.59	20300.69	24267.74	28162.13
19. Tamil Nadu	27227.00	26969.00	25917.00	25714.00	31024.00
20. Uttar Pradesh	19722.00	21048.46	21409.33	21988.17	24600.17
21. Uttrakhand	3502.94	4597.75	4112.51	4797.48	4767.21
22. West Bengal	735.69	905.40	1076.19	1004.94	1102.94
Sub-total : (I)	288787.21	293660.10	293331.24	310475.85	366132.49
<u>ILEDs</u>					
1. Arunachal Pradesh	56.66	83.00	91.37	99.88	137.63
2. Goa	0.00	0.00	0.00	0.00	0.00
3. Manipur	1.70	0.65	2.01	4.09	5.74
4. Mizoram	18.52	10.65	17.33	32.63	32.77
5. Nagaland	73.95	75.51	73.36	74.16	74.16
6. Pondicherry	257.24	242.27	207.13	207.97	233.59
7. Sikkim	46.21	48.00	38.74	43.00	49.00
8. Tripura	611.10	648.99	648.70	755.10	786.75
Sub-total : (II)	1065.39	1109.06	1078.64	1216.83	1319.63
Total (I+II) :	289852.60	294769.16	294409.89	311692.68	367452.12

GROSS PURCHASE OF POWER (including from its owned Units)

(MKwh)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Prov.)	2010-11 (RE)	2011-12 (AP)
<u>I.SPUs</u>					
1. Andhra Pradesh	61905	66626	73225	78351	87381
2. Assam	3250	3207	3296	3794	4619
3. Bihar	7847	8491	9610	11200	11200
4. Chhatisgarh	6449	8733	21729	20965	22652
5. Delhi	24749	24471	25562		
6. Gujarat	27225	29758	33591	33673	36347
7. Haryana	25379	26584	31527	37394	38266
8. Himachal Pradesh	5433	6047	6616	7255	7763
9. Jammu & Kashmir	7873	7489	8269	8568	8764
10. Jharkhand	6666	7004	7460	9109	10255
11. Karnataka	40138	42027	43005	46276	51121
12. Kerala	8075	9629	10200	10276	10816
13. Madhya Pradesh	20862	18985	19879	22034	21089
14. Maharashtra	78594	79122	85474	92273	112385
15. Meghalaya	924	969	947	983	1088
16. Orissa	17213	18778	19524		
17. Punjab	16974	14851	14838	15521	17767
18. Rajasthan	36688	39115	43663	48228	52471
19. Tamil Nadu	37573	37983	45027	51098	50625
20. Uttar Pradesh	55002	56375	61040	63622	72519
21. Uttrakhand	6893	7774	8312	9042	9680
22. West Bengal	20761	22871	26020	27447	28561
Sub-Total :(I)	516473	536889	598816	597109	655369
<u>II. EDs</u>					
1. Arunachal Pradesh	630	981	960	994	1044
2. Goa	3138	3238	3450	3649	4011
3. Manipur	647	616	534	561	586
4. Mizoram	353	378	347	352	378
5. Nagaland	357	451	439	439	439
6. Pondicherry	2614	2463	2682	2904	3146
7. Sikkim	624	802	839	802	900
8. Tripura	512	495	422	487	482
Sub-Total :(II)	8874	9424	9673	10187	10985
Total (I+II) :	525347	546314	608489	607296	666355

Annexure 3.18**NET PURCHASE OF POWER (excluding sale outside state)**

(MKwh)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Prov.)	2010-11 (RE)	2011-12 (AP)
<u>LSPUs</u>					
1. Andhra Pradesh	60950.00	66016.00	72380.00	78037.00	86983.00
2. Assam	2392.23	2622.05	3083.54	3634.69	4261.27
3. Bihar	7389.17	8140.60	9054.53	10700.00	10700.00
4. Chhatisgarh	5392.77	5613.09	19723.40	20036.00	22132.00
5. Delhi	24316.00	23667.00	24837.00		
6. Gujarat	25631.00	28429.00	29986.00	29973.00	32347.00
7. Haryana	25379.40	26144.94	31330.64	37224.98	37692.91
8. Himachal Pradesh	4234.75	4549.23	5332.34	5534.38	5953.80
9. Jammu & Kashmir	7873.41	7488.62	8269.42	8568.40	8763.56
10. Jharkhand	6657.80	6995.87	7451.87	9103.05	10244.80
11. Karnataka	40137.60	42027.27	43005.09	46275.65	51120.80
12. Kerala	6727.86	9165.65	10123.30	10275.69	10816.18
13. Madhya Pradesh	20292.78	18327.89	19616.66	22033.55	21089.35
14. Maharashtra	78594.00	79122.00	85474.00	92273.00	112385.00
15. Meghalaya	924.15	968.93	947.29	982.87	1087.54
16. Orissa	17213.00	18778.00	19524.00		
17. Punjab	15396.77	12335.51	14377.34	15266.58	17651.18
18. Rajasthan	36244.81	38640.76	43082.17	47723.06	51965.64
19. Tamil Nadu	36970.00	37407.00	44009.00	50604.00	50127.00
20. Uttar Pradesh	55002.00	56375.00	61040.00	63622.00	72519.00
21. Uttrakhand	6892.37	7773.58	8311.17	9042.26	9680.16
22. West Bengal	19781.77	20928.84	23733.41	25397.10	27011.13
Sub-Total :(I)	504393.63	521516.83	584692.16	586307.26	644531.32
<u>II. EDs</u>					
1. Arunachal Pradesh	412.78	731.00	638.50	640.00	655.00
2. Goa	2798.09	2985.17	3061.02	3316.58	3681.00
3. Manipur	509.64	511.54	464.04	472.07	488.96
4. Mizoram	253.40	281.56	308.18	313.60	336.73
5. Nagaland	255.49	280.62	363.33	348.00	349.00
6. Pondicherry	2431.96	2334.87	2526.77	2783.94	3026.17
7. Sikkim	329.01	345.48	473.58	497.00	490.00
8. Tripura	49.09	77.08	110.19	27.05	28.25
Sub-Total :(II)	7039.46	7547.32	7945.61	8398.24	9055.11
Total (I+II) :	511433.09	529064.14	592637.77	594705.50	653586.43

Note: Delhi data is for NDPL Discom only

PURCHASE OF POWER BY MAJOR SOURCES

(Mkwh)

	2007-08		2008-09		2009-10		2010-11		2011-12	
	Central Sector	Others	Central Sector	Others	Central Sector	Others	Central Sector	Others	Central Sector	Others
I. SPUs										
1. Andhra Pradesh	20312	41593	20895	45731	21993	51232	20677	57674	22442	64939
2. Assam	3147	103	3058	149	3082	213	3293	501	4165	454
3. Bihar	7403	444	8088	403	8623	987	10280	920	10280	920
4. Chhatisgarh	2974	3475	4183	4551	4795	16934	6297	14668	6853	15799
5. Gujarat	14547	12678	16371	13387	18598	14993	15874	17799	15539	20808
6. Haryana	3147	22233	3058	23526	3082	28445	3293	34101	4165	34101
7. Himachal Pradesh	1995	3439	1882	4165	2150	4466	1977	5278	2041	5722
8. Jammu & Kashmir	7873	0	7489	0	8269	0	8568	0	8764	0
9. Jharkhand	4674	1992	5497	1507	5357	2103	6578	2531	6839	3416
10. Karnataka	5740	34398	6237	35791	5647	37358	5874	40402	6185	44936
11. Kerala	7233	842	7735	1894	7288	2912	7019	3257	7446	3370
12. Madhya Pradesh	14048	6813	13727	5258	14310	5569	14984	7050	15233	5856
13. Maharashtra	22382	56212	22724	56398	24610	60864	23422	68851	27328	85057
14. Meghalaya	924	0	969	0	947	0	983	0	1088	0
15. Punjab	10088	6886	10310	4541	9634	5204	9605	5916	11002	6766
16. Rajasthan	7000	29688	7772	31343	8726	34937	8610	39618	8304	44167
17. Tamil Nadu	21270	16303	19898	18085	21377	23650	26529	24569	26315	24310
18. Uttar Pradesh	30894	24108	31006	25369	35532	25508	33533	30089	32414	40105
19. Uttrakhand	3250	3643	3163	4611	3317	4996	3836	5206	3836	5844
20. West Bengal	6222	14539	6410	16461	6665	19355	6570	20877	6570	21991
Sub-Total :(I)	195123	279388	200472	293169	214004	339725	217801	379308	226808	428561
II. EDs										
1. Arunachal Pradesh	630	0	981	0	960	0	994	0	1044	0
2. Goa	2934	204	3009	229	3215	235	3337	311	3424	587
3. Manipur	643	4	609	7	510	24	551	10	576	10
4. Mizoram	309	43	322	57	269	79	291	60	297	81
5. Nagaland	357	0	451	0	439	0	439	0	439	0
6. Pondicherry	1953	661	1826	637	2071	611	2242	662	2427	719
7. Sikkim	497	128	708	95	752	87	692	110	740	160
8. Tripura	512	0	495	0	422	0	487	0	482	0
Sub-Total :(II)	7834	1040	8401	1023	8636	1037	9034	1154	9429	1557
Total (I+II) :	202957	280428	208873	294192	222641	340762	226835	380461	236237	430118

Annexure 3.20**SHARE OF PURCHASE IN TOTAL SALE**

(%)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Prov.)	2010-11 (RE)	2011-12 (AP)
<u>I. SPU</u>s					
1. Andhra Pradesh	125.5	123.8	122.1	119.1	118.0
2. Assam	95.5	94.8	102.0	98.3	97.7
3. Bihar	161.7	159.5	158.4	155.2	149.4
4. Chhatisgarh	58.9	58.0	163.2	153.1	148.6
5. Gujarat	66.3	69.3	74.7	70.6	71.8
6. Haryana	139.0	134.5	136.7	132.3	116.0
7. Himachal Pradesh	87.3	86.9	93.2	93.0	93.3
8. Jammu & Kashmir	236.3	211.6	215.7	197.0	190.1
9. Jharkhand	155.7	150.4	140.7	140.4	139.4
10. Karnataka	133.8	130.4	127.2	125.2	124.3
11. Kerala	60.3	74.8	72.6	72.2	71.6
12. Madhya Pradesh	96.5	87.9	87.4	87.5	76.9
13. Maharashtra	141.1	136.0	133.7	129.0	127.5
14. Meghalaya	87.3	92.5	96.8	93.0	82.5
15. Punjab	52.8	45.5	45.4	46.4	49.1
16. Rajasthan	155.1	146.8	142.7	138.2	133.0
17. Tamil Nadu	71.1	71.6	77.9	81.4	75.1
18. Uttar Pradesh	148.3	140.0	147.7	140.6	132.2
19. Uttrakhand	145.5	141.5	133.0	130.8	125.8
20. West Bengal	130.7	130.7	130.1	131.4	128.7
Sub-Total :(I)	103.5	101.2	105.6	110.9	108.1
<u>II. EDs</u>					
1. Arunachal Pradesh	162.9	177.3	150.0	141.1	134.8
2. Goa	120.0	126.5	119.9	121.0	121.3
3. Manipur	193.2	204.2	183.4	165.5	159.7
4. Mizoram	126.5	144.3	151.2	141.6	140.0
5. Nagaland	130.2	124.1	134.8	123.6	118.9
6. Pondicherry	116.0	115.8	115.6	115.6	115.6
7. Sikkim	112.4	109.3	115.1	116.4	113.2
8. Tripura	59.5	57.0	52.3	49.6	47.5
Sub-Total :(II)	117.4	121.3	117.7	115.2	114.2
Total (I+II) :	103.7	101.5	105.8	111.0	108.2

**PURCHASE OF POWER FROM CENTRAL SECTOR
AS PERCENTAGE OF TOTAL PURCHASE**

(%)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Prov.)	2010-11 (RE)	2011-12 (AP)
I. SEBs					
1. Andhra Pradesh	32.81	31.36	30.03	26.39	25.68
2. Assam	96.83	95.35	93.53	86.79	90.17
3. Bihar	94.34	95.25	89.73	91.79	91.79
4. Chhatisgarh	46.12	47.89	22.07	30.04	30.25
5. Gujarat	53.43	55.01	55.37	47.14	42.75
6. Haryana	12.40	11.50	9.78	8.81	10.88
7. Himachal Pradesh	36.71	31.13	32.50	27.25	26.29
8. Jammu & Kashmir	100.00	100.00	100.00	100.00	100.00
9. Jharkhand	70.11	78.48	71.81	72.21	66.69
10. Karnataka	14.30	14.84	13.13	12.69	12.10
11. Kerala	89.58	80.33	71.45	68.30	68.84
12. Madhya Pradesh	67.34	72.30	71.99	68.00	72.23
13. Maharashtra	28.48	28.72	28.79	25.38	24.32
14. Meghalaya	100.00	100.00	100.00	100.00	100.00
15. Punjab	59.43	69.43	64.93	61.89	61.92
16. Rajasthan	19.08	19.87	19.98	17.85	15.83
17. Tamil Nadu	56.61	52.39	47.48	51.92	51.98
18. Uttar Pradesh	56.17	55.00	58.21	52.71	44.70
19. Uttrakhand	47.15	40.69	39.90	42.43	39.63
20. West Bengal	29.97	28.03	25.62	23.94	23.00
Sub-Total :(I)	41.12	40.61	38.65	36.48	34.61
II. EDs					
1. Arunachal Pradesh	100.00	100.00	100.00	100.00	100.00
2. Goa	93.50	92.94	93.19	91.46	85.36
3. Manipur	99.32	98.90	95.42	98.22	98.33
4. Mizoram	87.76	85.04	77.34	82.90	78.56
5. Nagaland	100.00	100.00	100.00	100.00	100.00
6. Pondicherry	74.73	74.15	77.21	77.21	77.16
7. Sikkim	79.53	88.21	89.59	86.28	82.22
8. Tripura	100.00	100.00	100.00	100.00	100.00
Sub-Total :(II)	88.28	89.14	89.28	88.68	85.83
Total (I+II) :	41.99	41.52	39.52	37.35	35.45

Annexure 3.22

**PURCHASE OF POWER FROM CENTRAL SECTOR
AS PERCENTAGE OF AVAILABILITY**

(%)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Prov.)	2010-11 (RE)	2011-12 (AP)
<u>I.SPUs</u>					
1. Andhra Pradesh	32.81	31.36	30.03	26.39	25.68
2. Assam	66.62	63.63	62.20	59.84	63.76
3. Bihar	92.98	94.22	87.66	89.72	89.13
4. Chhatisgarh	18.74	19.83	22.07	30.04	30.25
5. Gujarat	26.99	29.42	31.23	25.70	23.82
6. Haryana	12.40	11.50	9.78	8.81	9.76
7. Himachal Pradesh	27.72	23.49	25.84	21.63	20.98
8. Jammu & Kashmir	90.04	81.95	79.74	78.78	78.92
9. Jharkhand	62.94	67.30	62.08	67.45	55.02
10. Karnataka	14.30	14.84	13.13	12.69	12.10
11. Kerala	43.25	48.13	41.91	39.93	40.12
12. Madhya Pradesh	38.93	38.74	40.52	39.17	37.46
13. Maharashtra	28.48	28.72	28.79	25.38	24.32
14. Meghalaya	58.21	63.67	63.92	65.13	59.09
15. Punjab	24.65	25.75	23.65	23.63	25.30
16. Rajasthan	19.08	19.87	19.98	17.85	15.83
17. Tamil Nadu	33.01	30.75	30.34	34.64	32.42
18. Uttar Pradesh	56.17	55.00	58.21	52.71	44.70
19. Uttrakhand	48.27	41.45	40.06	42.98	39.63
20. West Bengal	29.63	27.97	25.81	24.04	23.02
Sub-Total :(I)	33.02	32.67	32.38	30.83	29.02
<u>II. EDs</u>					
1. Arunachal Pradesh	91.75	92.20	91.31	90.87	88.35
2. Goa	93.50	92.94	93.19	91.46	85.36
3. Manipur	99.06	98.80	95.06	97.51	97.38
4. Mizoram	83.38	82.71	73.67	75.86	72.29
5. Nagaland	82.82	85.65	85.68	85.55	85.55
6. Pondicherry	74.73	74.15	77.21	77.21	77.16
7. Sikkim	69.47	63.62	61.30	57.81	56.97
8. Tripura	45.56	43.28	39.39	39.21	37.99
Sub-Total :(II)	80.54	79.61	79.28	78.23	75.91
Total (I+II) :	33.79	33.46	33.15	31.59	29.75

Transmission & Distribution Losses (As per SPUs)

(Mkwh)

		2007-08 (Actual)	2008-09 (Actual)	2009-10 (Prov.)	2010-11 (RE)	2011-12 (AP)
I. SPUs						
1	Andhra Pradesh	12560	12801	13261	12587	13349
2	Assam	1322	1423	1723	1642	1806
3	Bihar	3110	3260	3769	4239	4037
4	Chhatisgarh	4923	6036	8412	7273	7404
5	Gujarat	12825	12696	14597	14050	14571
6	Haryana	7122	6824	8462	9120	9683
7	Himachal Pradesh	970	1056	1224	1335	1412
8	Jammu & Kashmir	5412	5599	6538	6527	6494
9	Jharkhand	3144	3510	3326	3263	5071
10	Karnataka	10150	9802	9195	9300	10001
11	Kerala	3326	3192	3342	3350	3450
12	Madhya Pradesh	14461	13826	12577	13054	13239
13	Maharashtra	22878	20951	21532	20751	24237
14	Meghalaya	529	474	503	452	522
15	Punjab	8796	7416	8043	7218	7321
16	Rajasthan	13031	12474	13073	13321	13018
17	Tamil Nadu	11598	11649	12682	13785	13758
18	Uttar Pradesh	17905	16117	19714	18361	17658
19	Uttarakhand	1996	2138	2031	2011	1987
20	West Bengal	5111	5344	6151	6435	6349
	Sub-Total-I(SEBs)	161167	156587	170155	168076	175369
II Eds						
1	Arunachal Pradesh	300	511	411	389	407
2	Goa	523	678	573	634	705
3	Manipur	314	315	245	245	225
4	Mizoram	92	127	135	136	141
5	Nagaland	157	163	187	158	144
6	Pondicherry	360	336	362	393	424
7	Sikkim	159	378	497	508	504
8	Tripura	262	275	264	260	255
	Sub-Total-II(EDs)	1867	2273	2264	2334	2398
	Total: (I+II)	163035	158860	172419	170409	177767

Annexure 3.24**T & D Losses as percentage of Availability
(As per SPUs)**

(%)

		2007-08 (Actual)	2008-09 (Actual)	2009-10 (Prov.)	2010-11 (RE)	2011-12 (AP)
I. SEBs						
1	Andhra Pradesh	20.29	19.21	18.11	16.06	15.28
2	Assam	27.98	29.61	34.77	29.85	27.65
3	Bihar	39.06	37.98	38.32	37.00	35.00
4	Chhatisgarh	31.02	28.62	38.71	34.69	32.69
5	Gujarat	23.80	22.81	24.51	22.74	22.34
6	Haryana	28.06	25.67	26.84	24.39	22.69
7	Himachal Pradesh	13.47	13.17	14.71	14.61	14.51
8	Jammu & Kashmir	61.90	61.27	63.04	60.01	58.48
9	Jharkhand	42.34	42.97	38.54	33.46	40.80
10	Karnataka	25.29	23.32	21.38	20.10	19.56
11	Kerala	19.89	19.86	19.22	19.06	18.59
12	Madhya Pradesh	40.07	39.02	35.61	34.13	32.56
13	Maharashtra	29.11	26.48	25.19	22.49	21.57
14	Meghalaya	33.35	31.16	33.95	29.98	28.38
16	Punjab	21.50	18.52	19.74	17.76	16.84
17	Rajasthan	35.52	31.89	29.94	27.62	24.81
18	Tamil Nadu	18.00	18.00	18.00	18.00	16.95
19	Uttar Pradesh	32.55	28.59	32.30	28.86	24.35
20	Uttrakhand	29.65	28.01	24.53	22.53	20.53
19	West Bengal	24.34	23.31	23.82	23.54	22.25
	Sub-Total-I(SEBs)	27.27	25.52	25.75	23.79	22.43
II Eds						
1	Arunachal Pradesh	43.66	47.98	39.12	35.60	34.45
2	Goa	16.66	20.95	16.61	17.38	17.58
3	Manipur	48.38	51.09	45.75	43.33	38.00
4	Mizoram	24.92	32.62	36.99	35.36	34.29
5	Nagaland	36.40	31.01	36.46	30.77	28.07
6	Pondicherry	13.77	13.65	13.52	13.53	13.49
7	Sikkim	22.26	34.01	40.57	42.44	38.80
8	Tripura	23.37	24.07	24.70	20.94	20.10
	Sub-Total-II(EDs)	19.20	21.54	20.79	20.21	19.31
	Total: (I+II)	27.14	25.45	25.67	23.73	22.39

Aggregate Technical & Commercial losses of SPU's (within state)

S. No	State	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Prov.)	2010-11 (RE)	2011-12 (AP)
1	Andhra Pradesh	20.61	19.39	18.32	16.13	15.35
2	Arunachal Pradesh	NA	74.27	72.67	73.04	75.05
3	Assam	36.77	35.37	38.33	32.20	29.99
4	Bihar	47.60	45.79	45.66	44.67	42.71
5	Chattisgarh	35.17	37.78	46.62	37.96	35.45
6	Gujarat	26.30	26.43	25.46	23.81	22.09
7	Haryana	29.01	28.43	30.03	24.74	23.06
8	Himachal Pradesh	19.52	15.63	20.62	14.24	16.48
9	Jammu & Kashmir	73.43	70.69	72.03	64.24	61.48
10	Jharkhand	53.91	54.41	50.86	43.45	41.63
11	Karnataka	31.63	24.79	24.11	20.57	20.07
12	Kerala	44.80	34.98	28.81	24.48	24.04
13	Madhya Pradesh	46.64	45.78	42.29	40.72	39.30
14	Maharashtra	30.67	28.75	27.44	24.04	23.13
15	Manipur	82.90	86.75	83.55	72.50	73.02
16	Meghalaya	39.74	35.36	43.44	39.08	40.76
17	Mizoram	38.38	46.43	42.89	41.44	38.94
18	Nagaland	51.20	55.85	58.02	40.16	35.15
19	Orissa	41.68	42.20	39.71		
20	Punjab	22.36	19.76	19.97	17.87	16.88
21	Rajasthan	40.18	32.99	31.20	30.79	27.27
22	Sikkim	46.87	46.81	51.37	46.81	46.51
23	Tamil Nadu	19.25	20.19	18.26	18.80	17.88
24	Tripura	41.44	37.58	35.60	32.06	29.83
25	Uttar Pradesh	38.89	35.29	42.09	33.84	27.38
26	Uttarakhand	35.37	29.35	32.69	23.30	21.32
27	West Bengal	20.67	28.81	27.80	26.87	24.96
28	Delhi	34.58	17.92	20.78		

Annexure 3.26

Sale of Power

(Mkwh)

		2007-08 (Actual)	2008-09 (Actual)	2009-10 (Prov.)	2010-11 (RE)	2011-12 (AP)
I. SPU's						
1	Andhra Pradesh	49345	53825	59964	65764	74032
2	Assam	3402	3383	3232	3860	4727
3	Bihar	4852	5325	6067	7219	7497
4	Chhatisgarh	10947	15058	13317	13692	15248
5	Delhi	17919	18986	21485		
6	Gujarat	41066	42957	44951	47723	50651
7	Haryana	18258	19760	23065	28274	32991
8	Himachal Pradesh	6227	6959	7098	7804	8317
9	Jammu & Kashmir	3332	3539	3833	4349	4610
10	Jharkhand	4282	4658	5303	6490	7358
11	Karnataka	29988	32225	33810	36975	41119
12	Kerala	13397	12878	14048	14226	15109
13	Madhya Pradesh	21629	21610	22741	25195	27425
14	Maharashtra	55716	58171	63942	71522	88148
15	Meghalaya	1058	1048	979	1057	1318
16	Orissa	10762	11731	12228		
17	Punjab	32122	32627	32697	33431	36165
18	Rajasthan	23658	26641	30590	34907	39453
19	Tamil Nadu	52831	53065	57775	62800	67405
20	Uttar Pradesh	37097	40258	41326	45261	54861
21	Uttrakhand	4736	5494	6249	6916	7693
22	West Bengal	15887	17577	19677	20895	22193
	Sub-Total-I(SPU's)	458509	487774	524378	538358	606321
II Eds						
1	Arunachal Pradesh	387	553	640	704	775
2	Goa	2615	2560	2877	3015	3306
3	Manipur	335	302	291	339	367
4	Mizoram	279	262	230	248	270
5	Nagaland	274	363	326	355	369
6	Pondicherry	2254	2127	2320	2511	2722
7	Sikkim	556	734	729	689	795
8	Tripura	860	869	806	982	1014
	Sub-Total-II(EDs)	7559	7769	8218	8844	9616
	Grand Total: (I+II)	466068	495544	532596	547202	615937

CONSUMER CATEGORYWISE SALE OF POWER - 2007-08

(Mkwh)

		Domestic	Com- mercial	Agri/ irrig.	Industry	Railway traction	Outside the State/UT	Others	Total
I. SPUs									
1	Andhra Pradesh	10364.00	2687.00	14833.00	15071.00	1402.00	955.00	4033.00	49345.00
2	Assam	924.54	330.80	19.54	833.66	0.00	857.52	435.95	3402.01
3	Bihar	1699.98	371.85	659.12	1103.16	384.80	457.77	174.88	4851.56
4	Chhatisgarh	1866.42	336.68	817.92	6061.91	651.91	1056.31	155.57	10946.72
5	Delhi	2027.00	933.00	12.00	1744.00	126.00	433.00	133.00	5408.00
6	Gujarat	5221.00	1806.00	11203.00	15132.00	588.00	1594.00	5522.00	41066.00
7	Haryana	3474.97	1110.96	7340.91	5014.59	416.24	0.00	900.08	18257.74
8	Himachal Pradesh	1058.81	248.25	26.65	3435.07	0.00	1198.62	259.87	6227.28
9	Jammu & Kashmir	1156.39	176.40	224.34	785.26	0.00	0.00	989.25	3331.64
10	Jharkhand	1345.87	209.09	66.85	1977.21	516.08	8.13	158.28	4281.51
11	Karnataka	6322.94	3549.87	10808.65	6903.21	0.00	0.00	2403.27	29987.94
12	Kerala	5595.12	1378.33	230.55	4123.68	109.26	1346.76	612.91	13396.61
13	Madhya Pradesh	4288.64	1024.16	6500.99	5279.86	1356.67	569.00	2609.38	21628.70
14	Maharashtra	9518.00	2654.00	12333.00	25324.00	1206.00	0.00	4681.00	55716.00
15	Meghalaya	208.61	39.61	0.61	507.66	0.00	164.83	136.78	1058.10
16	Orissa	2691.00	658.00	131.00	6091.00	594.00	0.00	597.00	10762.00
17	Punjab	6490.00	1919.00	10030.00	11050.00	112.00	1577.00	943.83	32121.83
18	Rajasthan	4463.82	1529.91	8144.59	7270.37	296.61	443.57	1508.92	23657.79
19	Tamil Nadu	12768.00	5139.00	11116.00	20019.00	0.00	603.00	3186.00	52831.00
20	Uttar Pradesh	13449.00	2601.00	6186.00	8297.00	653.00	0.00	5911.00	37097.00
21	Uttrakhand	1267.58	607.75	300.20	2287.66	9.48	0.84	262.61	4736.12
22	West Bengal	4113.81	1687.74	1109.95	5191.79	708.03	978.97	2096.79	15887.08
	Sub-total: (I)	100315.50	30998.41	102094.87	153503.09	9130.08	12244.32	37711.36	445997.62

		Domestic	Com- mercial	Agri/ irrig.	Industry	Railway traction	Outside the State/UT	Others	Total
II EDs									
1	Arunachal Pradesh	47.75	9.54	0.00	77.13	0.00	216.96	35.31	386.69
2	Goa	540.14	181.15	15.80	1379.84	0.00	339.91	158.49	2615.33
3	Manipur	117.92	12.67	0.09	8.86	0.00	137.56	57.86	334.96
4	Mizoram	115.91	9.42	0.00	1.68	0.00	99.20	52.43	278.64
5	Nagaland	121.61	9.20	0.00	13.09	0.00	101.08	28.83	273.81
6	Ponicherry	392.81	132.29	81.63	1422.96	0.00	182.05	42.27	2254.01
7	Sikkim	61.62	42.10	0.00	88.63	0.00	295.36	67.90	555.61
8	Tripura	210.45	40.63	24.38	21.05	0.00	462.42	101.30	860.23
	Sub-total : (II)	1608.21	437.00	121.90	3013.24	0.00	1834.54	544.39	7559.28
	Total (I+II):	101923.70	31435.41	102216.77	156516.33	9130.08	14078.86	38255.76	453556.91

Note: Delhi data is for NDPL Discom only

CONSUMER CATEGORYWISE SALE OF POWER - 2008-09

(Mkwh)

		Domestic	Commer- cial	Agri/ irrig.	Industry	Railway traction	Outside the State/UT	Others	Total
I. SPU's									
1	Andhra Pradesh	11471.00	3026.00	16410.00	16116.00	1423.00	610.00	4769.00	53825.00
2	Assam	1003.97	411.19	24.46	933.73	0.00	584.97	424.25	3382.57
3	Bihar	1768.21	416.92	776.72	1428.12	399.81	350.74	184.12	5324.64
4	Chhatisgarh	2422.62	650.65	1982.30	6014.58	701.44	3120.00	166.22	15057.81
5	Delhi	2102.00	1014.00	28.00	1767.00	124.00	804.00	126.00	5965.00
6	Gujarat	5724.00	2034.00	11727.00	15895.00	601.00	1329.00	5647.00	42957.00
7	Haryana	3771.39	1203.14	7354.18	5490.18	440.50	438.57	1061.96	19759.92
8	Himachal Pradesh	1089.12	274.66	28.74	3774.63	0.00	1498.27	293.35	6958.78
9	Jammu & Kashmir	1400.97	286.81	204.88	688.21	0.00	0.00	957.83	3538.70
10	Jharkhand	1619.58	247.40	69.62	1993.85	562.72	8.13	156.71	4658.01
11	Karnataka	6876.84	4014.53	11541.41	7266.81	0.00	0.00	2525.83	32225.41
12	Kerala	5925.23	1501.60	225.22	4002.37	142.07	463.33	617.83	12877.65
13	Madhya Pradesh	4528.76	1108.73	6292.44	5475.58	1439.41	657.24	2108.00	21610.16
14	Maharashtra	10658.00	3856.00	12731.84	26546.25	1286.00	0.00	3093.29	58171.38
15	Meghalaya	226.69	43.91	0.50	528.54	0.00	99.11	148.87	1047.62
16	Orissa	2905.00	921.00	145.00	6659.00	621.00	0.00	480.00	11731.00
17	Punjab	6695.00	1967.00	9349.00	11046.00	126.00	2515.00	929.00	32627.00
18	Rajasthan	5014.92	1631.92	9790.84	7704.23	302.28	474.30	1723.01	26641.50
19	Tamil Nadu	13810.00	5162.00	11398.00	17969.00	0.00	576.00	4150.00	53065.00
20	Uttar Pradesh	14511.00	2650.00	6847.00	9559.00	614.00	0.00	6077.00	40258.00
21	Uttrakhand	1222.22	763.92	266.01	2980.83	10.68	0.84	249.24	5493.73
22	West Bengal	4589.21	1993.22	843.15	5648.95	738.41	1942.28	1822.26	17577.48
	Sub-total: (I)	109335.73	35178.60	108036.30	159487.87	9532.32	15471.78	37710.76	474753.35

		Domestic	Commer- cial	Agri/ irrig.	Industry	Railway traction	Outside the State/UT	Others	Total
<u>II EDs</u>									
1	Arunachal Pradesh	101.85	30.45	0.00	140.70	0.00	250.00	30.45	553.45
2	Goa	554.15	202.97	16.64	1383.43	0.00	252.78	149.61	2559.58
3	Manipur	120.12	14.22	0.12	8.68	0.00	104.40	54.07	301.60
4	Mizoram	111.34	9.94	0.00	1.62	0.00	96.65	42.48	262.03
5	Nagaland	145.00	8.95	0.00	13.90	0.00	170.00	25.12	362.97
6	Ponicherry	425.83	138.31	53.54	1337.67	0.00	128.06	43.22	2126.63
7	Sikkim	63.74	46.97	0.00	97.78	0.00	456.83	68.82	734.14
8	Tripura	230.89	41.02	33.83	31.80	0.00	418.22	113.14	868.90
	Sub-total : (II)	1752.92	492.83	104.13	3015.58	0.00	1876.94	526.91	7769.30
	Total (I+II):	111088.65	35671.43	108140.43	162503.44	9532.32	17348.72	38237.67	482522.66

Note : Delhi Data is for NDPL Discom only

Annexure 3.29**CONSUMER CATEGORYWISE SALE OF POWER - 2009-10**

(Mkwh)

		Domestic	Comer- cial	Agri/ irrig.	Industry	Railway traction	Outside the State/UT	Others	Total
<u>I. SPU</u>s									
1	Andhra Pradesh	13102.00	3385.00	18306.00	17653.00	1526.00	845.00	5147.00	59964.00
2	Assam	1162.15	451.54	22.52	976.09	0.00	212.11	407.81	3232.22
3	Bihar	1964.73	470.19	794.01	1667.55	444.82	555.45	170.47	6067.22
4	Chhatisgarh	2805.40	754.41	1751.59	5108.30	703.28	2006.00	188.47	13317.45
5	Delhi	2004.00	1023.00	20.00	1884.00	54.00	725.00	120.00	5830.00
6	Gujarat	6130.00	2277.00	12825.00	17381.00	642.00	3605.00	2091.00	44951.00
7	Haryana	4354.38	1631.79	9178.11	6101.94	493.44	196.43	1108.58	23064.67
8	Himachal Pradesh	1112.13	305.65	31.04	3596.86	0.00	1284.01	768.66	7098.35
9	Jammu & Kashmir	1380.00	295.00	295.00	856.00	0.00	0.00	1007.00	3833.00
10	Jharkhand	2037.12	272.30	65.76	2139.95	594.72	8.13	184.80	5302.78
11	Karnataka	7360.09	4349.48	11894.90	7513.47	0.00	0.00	2692.39	33810.33
12	Kerala	6554.70	1793.00	257.00	4481.09	165.00	76.66	720.30	14047.75
13	Madhya Pradesh	5649.26	1358.10	5745.24	6362.77	1607.92	262.46	1755.55	22741.30
14	Maharashtra	11868.00	4880.00	13925.00	28698.00	1293.00	0.00	3278.06	63942.06
15	Meghalaya	227.37	52.25	0.63	468.63	0.00	80.44	149.54	978.86
16	Orissa	3285.00	1072.00	151.00	6447.00	750.00	0.00	523.00	12228.00
17	Punjab	7270.00	2135.00	10626.00	11123.00	147.00	461.00	935.00	32697.00
18	Rajasthan	5817.11	1717.18	12052.61	8067.55	349.55	580.66	2005.01	30589.66
19	Tamil Nadu	15610.00	5768.00	12428.00	18447.00	0.00	1018.00	4504.00	57775.00
20	Uttar Pradesh	15837.00	3166.00	7317.00	10740.00	647.00	0.00	3619.00	41326.00
21	Uttrakhand	1387.23	857.52	298.10	3399.16	7.34	1.14	298.72	6249.21
22	West Bengal	4959.18	2420.48	1322.97	5724.48	801.59	2286.53	2161.78	19677.01
	Sub-total :(I)	121876.85	40434.89	119307.47	168836.84	10226.66	14204.03	33836.14	508722.87
<u>II ED</u>s									
1	Arunachal Pradesh	106.94	31.97	0.00	147.74	0.00	321.50	31.97	640.12

		Domestic	Comercial	Agri/irrig.	Industry	Railway traction	Outside the State/UT	Others	Total
2	Goa	628.04	187.00	18.70	1497.77	0.00	389.03	156.49	2877.03
3	Manipur	127.49	16.01	0.71	8.80	0.00	70.34	68.01	291.34
4	Mizoram	129.16	11.86	0.50	1.75	0.00	38.97	47.43	229.67
5	Nagaland	175.84	22.71	0.00	11.86	0.00	75.67	39.47	325.55
6	Ponicherry	511.94	149.42	83.15	1368.64	0.00	155.29	51.13	2319.57
7	Sikkim	72.23	51.14	0.00	146.87	0.00	365.25	93.06	728.55
8	Tripura	250.21	46.65	40.21	30.21	0.00	311.42	127.28	805.98
	Sub-total: (II)	2001.85	516.76	143.27	3213.63	0.00	1727.47	614.84	8217.81
	Total (I+II) :	123878.70	40951.65	119450.74	172050.47	10226.66	15931.50	34450.97	516940.68

Note: Delhi data is for NDPL Discom only

Annexure 3.30**CONSUMER CATEGORYWISE SALE OF POWER - 2010-11 (R.E)**

(Mkwh)

		Domestic	Commer- cial	Agri/ irrig.	Industry	Railway traction	Outside the State/UT	Others	Total
I. SPU's									
1	Andhra Pradesh	14729.00	3837.00	18790.00	20665.00	1607.00	314.00	5822.00	65764.00
2	Assam	1561.00	495.00	36.50	1120.00	0.00	159.48	488.00	3859.98
3	Bihar	2394.90	573.14	967.85	2032.65	542.21	500.00	207.80	7218.55
4	Chhatisgarh	3305.00	849.00	1892.00	5795.00	729.00	929.00	193.00	13692.00
5	Gujarat	6706.00	2523.00	13857.00	18945.00	662.00	3700.00	1330.00	47723.00
6	Haryana	6026.26	2084.93	8471.63	9251.02	703.71	169.22	1567.31	28274.08
7	Himachal Pradesh	1155.10	306.32	33.52	3822.07	0.00	1721.00	765.49	7803.50
8	Jammu & Kashmir	1550.00	333.35	321.55	958.72	0.00	0.00	1185.40	4349.02
9	Jharkhand	2742.83	327.96	94.31	2399.40	660.10	5.95	259.03	6489.58
10	Karnataka	8280.84	5018.51	12435.20	8442.11	0.00	0.00	2798.54	36975.20
11	Kerala	6713.06	1800.00	257.00	4565.00	168.00	0.00	723.00	14226.06
12	Madhya Pradesh	5900.00	1382.04	7367.74	7071.55	1667.25	0.00	1806.03	25194.61
13	Maharashtra	14725.73	6372.69	14211.23	30539.45	1369.00	0.00	4303.90	71522.00
14	Meghalaya	230.80	54.83	0.70	506.52	0.00	109.09	154.75	1056.69
15	Punjab	8162.00	2401.00	10898.00	10595.00	161.00	254.00	960.00	33431.00
16	Rajasthan	6787.14	1942.88	13732.17	9118.01	336.12	505.00	2485.77	34907.09
17	Tamil Nadu	16394.00	7066.00	11579.00	21776.00	0.00	494.00	5491.00	62800.00
18	Uttar Pradesh	14859.00	2890.00	6910.00	9932.00	591.00	0.00	10079.00	45261.00
19	Uttrakhand	1548.64	926.58	303.34	3792.93	8.07	0.00	336.11	6915.68
20	West Bengal	5417.06	2696.06	1482.50	6298.78	859.48	2050.00	2090.94	20894.82
	Sub-total:(a)	129188.36	43880.30	123641.24	177626.21	10063.94	10910.74	43047.07	538357.86
II EDs									
1	Arunachal Pradesh	117.64	35.17	0.00	162.51	0.00	354.00	35.17	704.48
2	Goa	658.08	195.95	19.59	1650.17	0.00	332.00	158.77	3014.56
3	Manipur	142.00	19.73	0.15	13.34	0.00	89.24	74.78	339.24
4	Mizoram	146.67	12.65	0.73	1.81	0.00	38.00	48.50	248.36
5	Nagaland	183.15	23.16	0.00	13.35	0.00	91.00	44.59	355.25
6	Ponicherry	592.02	164.36	83.15	1499.13	0.00	120.00	52.41	2511.07
7	Sikkim	74.33	52.92	0.00	157.25	0.00	305.00	99.50	689.00
8	Tripura	281.17	48.16	12.30	44.23	0.00	459.91	136.24	982.01
	Sub-total:(b)	2195.05	552.10	115.92	3541.78	0.00	1789.15	649.96	8843.97
	Total (I+II):	131383.41	44432.40	123757.16	181168.00	10063.94	12699.89	43697.03	547201.83

Annexure 3.31

(Mkwh)

		Domestic	Commer- cial	Agri/ irrig.	Industry	Railway traction	Outside the State/UT	Others	Total
I. SPU's									
1	Andhra Pradesh	16456.00	4337.00	20841.00	23639.00	1751.00	398.00	6610.00	74032.00
2	Assam	1924.00	566.00	51.50	1298.00	0.00	358.00	529.00	4726.50
3	Bihar	2494.19	596.90	1007.98	2116.92	564.69	500.00	216.41	7497.09
4	Chhatisgarh	3572.00	978.00	2133.00	7081.00	763.00	520.00	201.00	15248.00
5	Gujarat	7187.00	2741.00	14466.00	20181.00	686.00	4000.00	1390.00	50651.00
6	Haryana	7073.26	2444.33	9761.30	10563.99	788.67	573.53	1785.62	32990.69
7	Himachal Pradesh	1224.41	306.32	36.20	4109.97	0.00	1809.00	831.11	8317.01
8	Jammu & Kashmir	1643.00	353.35	340.84	1016.24	0.00	0.00	1256.53	4609.96
9	Jharkhand	3353.99	348.33	95.93	2558.22	706.94	10.20	284.61	7358.22
10	Karnataka	9442.05	5822.82	12993.82	9693.97	0.00	0.00	3166.67	41119.33
11	Kerala	7122.15	1850.00	267.00	5000.00	170.00	0.00	700.00	15109.15
12	Madhya Pradesh	7036.39	1561.46	7724.09	7300.00	1702.65	0.00	2100.41	27425.00
13	Maharashtra	18149.54	7854.59	17515.09	37638.72	1686.00	0.00	5304.49	88148.43
14	Meghalaya	251.68	60.90	0.77	655.50	0.00	185.29	164.07	1318.21
15	Punjab	8836.00	2618.00	12252.60	11187.00	181.00	116.00	974.40	36165.00
16	Rajasthan	7662.93	2201.82	15541.94	10301.74	390.13	505.00	2849.38	39452.94
17	Tamil Nadu	17402.00	7573.00	11990.00	24101.00	0.00	498.00	5841.00	67405.00
18	Uttar Pradesh	18740.00	3757.00	7273.00	12912.00	717.00	0.00	11462.00	54861.00
19	Uttarakhand	1743.77	1000.67	328.03	4233.25	8.88	0.00	378.22	7692.82
20	West Bengal	5919.64	3013.78	1661.77	6996.80	921.54	1550.00	2129.65	22193.18
	Sub-total :(a)	147233.99	49985.27	136281.86	202584.31	11037.50	11023.02	48174.58	606320.53
II EDs									
1	Arunachal Pradesh	129.40	38.69	0.00	178.76	0.00	389.00	38.68	774.53
2	Goa	721.66	214.88	21.49	1843.99	0.00	330.00	173.81	3305.83
3	Manipur	153.45	20.32	0.16	13.75	0.00	96.62	82.32	366.62
4	Mizoram	155.56	13.69	0.90	2.06	0.00	41.00	56.53	269.74
5	Nagaland	190.00	25.20	0.00	14.50	0.00	90.00	49.40	369.10
6	Ponicherry	667.53	180.80	83.15	1616.54	0.00	120.00	53.75	2721.77
7	Sikkim	75.00	53.00	0.00	156.00	0.00	410.00	101.00	795.00
8	Tripura	301.58	51.66	13.19	47.44	0.00	453.75	146.13	1013.75
	Sub-total:(b)	2394.18	598.24	118.89	3873.03	0.00	1930.37	701.62	9616.34
	Total (I+II) :	149628.17	50583.51	136400.75	206457.35	11037.50	12953.39	48876.20	615936.87

SHARE OF AGRICULTURE IN TOTAL SALES

(%)

		2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's						
1	Andhra Pradesh	30.06	30.49	30.53	28.57	28.15
2	Assam	0.57	0.72	0.70	0.95	1.09
3	Bihar	13.59	14.59	13.09	13.41	13.44
4	Chhatisgarh	7.47	13.16	13.15	13.82	13.99
5	Delhi					
6	Gujarat	27.28	27.30	28.53	29.04	28.56
7	Haryana	40.21	37.22	39.79	29.96	29.59
8	Himachal Pradesh	0.43	0.41	0.44	0.43	0.44
9	Jammu & Kashmir	6.73	5.79	7.70	7.39	7.39
10	Jharkhand	1.56	1.49	1.24	1.45	1.30
11	Karnataka	36.04	35.81	35.18	33.63	31.60
12	Kerala	1.72	1.75	1.83	1.81	1.77
13	Madhya Pradesh	30.06	29.12	25.26	29.24	28.16
14	Maharashtra	22.14	21.89	21.78	19.87	19.87
15	Meghalaya	0.06	0.05	0.06	0.07	0.06
16	Orissa	1.22	1.24	1.23		
17	Punjab	31.22	28.65	32.50	32.60	33.88
18	Rajasthan	34.43	36.75	39.40	39.34	39.39
19	Tamil Nadu	21.04	21.48	21.51	18.44	17.79
20	Uttar Pradesh	16.68	17.01	17.71	15.27	13.26
21	Uttrakhand	6.34	4.84	4.77	4.39	4.26
22	West Bengal	6.99	4.80	6.72	7.10	7.49
	Sub-total :(I)	22.89	22.76	23.45	22.97	22.48
II EDs						
1	Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00
2	Goa	0.60	0.65	0.65	0.65	0.65
3	Manipur	0.03	0.04	0.24	0.04	0.04
4	Mizoram	0.00	0.00	0.22	0.29	0.33
5	Nagaland	0.00	0.00	0.00	0.00	0.00
6	Ponicherry	3.62	2.52	3.58	3.31	3.05
7	Sikkim	0.00	0.00	0.00	0.00	0.00
8	Tripura	2.83	3.89	4.99	1.25	1.30
	Sub-total :(II)	1.61	1.34	1.74	1.31	1.24
	Total (I+II) :	22.54	22.41	23.11	22.62	22.15

Note: Delhi data is for NDPL Discom only

Annexure 3.33**SHARE OF REVENUE FROM AGRICULTURE IN TOTAL SALES REVENUE**

(%)

		2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's						
1	Andhra Pradesh	0.97	1.04	1.07	1.90	3.10
2	Assam	0.60	0.72	0.76	0.79	1.02
3	Bihar	2.93	3.00	2.76	2.88	2.91
4	Chhatisgarh	1.74	1.48	2.45	4.82	4.86
5	Delhi	0.08	0.25	0.15		
6	Gujarat	9.67	12.90	12.44	12.98	12.62
7	Haryana	5.52	4.63	4.22	3.12	3.21
8	Himachal Pradesh	0.18	0.26	0.28	0.25	0.23
9	Jammu & Kashmir	5.97	3.74	4.10	3.89	3.89
10	Jharkhand	0.22	0.24	0.22	0.28	0.22
11	Karnataka	8.59	9.72	15.11	17.27	15.67
12	Kerala	0.52	0.62	0.59	0.57	0.56
13	Madhya Pradesh	11.07	18.77	18.54	21.49	23.23
14	Maharashtra	10.58	10.52	9.92	9.10	9.17
15	Meghalaya	0.03	0.02	0.02	0.03	0.03
16	Orissa	0.47	0.53	0.75		
17	Punjab	0.24	0.00	0.00	7.41	27.58
18	Rajasthan	14.68	15.57	15.69	15.90	15.76
19	Tamil Nadu	0.00	0.00	0.00	0.00	0.00
20	Uttar Pradesh	10.12	9.77	11.28	9.25	7.96
21	Uttarakhand	2.34	2.03	2.29	2.47	2.44
22	West Bengal	2.37	2.07	2.39	3.95	4.13
	Sub-total :(I)	5.79	6.62	7.10	7.92	9.05
II EDs						
1	Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00
2	Goa	0.32	0.34	0.29	0.32	0.32
3	Manipur	0.02	0.03	0.19	0.04	0.04
4	Mizoram	0.00	0.00	0.09	0.10	0.16
5	Nagaland	0.00	0.00	0.00	0.00	0.00
6	Ponicherry	0.03	0.03	0.05	0.05	0.06
7	Sikkim	0.00	0.00	0.00	0.00	0.00
8	Tripura	1.24	1.31	1.99	1.03	0.96
	Sub-total :(II)	0.27	0.30	0.34	0.26	0.26
	Total (I+II) :	5.70	6.52	7.00	7.82	8.93

Note: Delhi data is for NDPL Discom only

SHARE OF REVENUE FROM DOMESTIC SECTOR IN TOTAL SALES REVENUE

(%)

		2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU s						
1	Andhra Pradesh	20.02	20.35	21.91	22.49	21.54
2	Assam	18.12	17.99	23.92	27.85	31.19
3	Bihar	21.45	19.35	19.40	20.24	20.44
4	Chhatisgarh	12.00	8.82	13.02	15.25	14.55
5	Delhi	28.96	30.98	33.06		
6	Gujarat	11.51	12.10	12.58	13.25	13.28
7	Haryana	23.77	19.98	18.25	21.48	23.54
8	Himachal Pradesh	11.62	10.05	10.14	9.99	9.45
9	Jammu & Kashmir	20.57	24.02	21.02	21.25	21.25
10	Jharkhand	10.15	10.76	12.02	14.16	13.69
11	Karnataka	22.02	22.56	21.78	19.82	19.91
12	Kerala	20.50	23.22	25.32	26.94	27.00
13	Madhya Pradesh	20.08	21.15	27.28	25.78	26.95
14	Maharashtra	14.54	15.67	17.25	19.22	19.37
15	Meghalaya	16.27	15.93	16.18	17.20	15.50
16	Orissa	16.50	16.14	16.79		
17	Punjab	21.24	20.17	25.27	27.08	23.45
18	Rajasthan	19.93	22.83	23.56	24.08	24.06
19	Tamil Nadu	12.47	14.79	16.06	14.01	13.24
20	Uttar Pradesh	25.27	23.71	28.43	26.65	29.48
21	Uttarakhand	20.00	14.19	14.49	15.30	15.51
22	West Bengal	20.17	18.57	21.19	22.29	22.75
	Sub-total :(I)	17.84	17.97	19.91	20.25	20.55
II EDs						
1	Arunachal Pradesh	11.83	19.41	18.96	19.71	20.43
2	Goa	11.64	10.64	11.52	11.64	11.64
3	Manipur	29.85	25.55	33.23	34.01	33.98
4	Mizoram	31.29	29.10	36.84	35.95	40.33
5	Nagaland	41.81	30.75	40.78	40.88	40.99
6	Ponicherry	5.59	6.09	7.65	8.29	10.02
7	Sikkim	4.30	3.41	3.69	7.94	6.82
8	Tripura	21.04	17.48	24.34	27.85	25.81
	Sub-total :(II)	13.00	12.47	14.04	15.76	15.91
	Total (I+II) :	17.76	17.88	19.82	20.19	20.48

Note: Delhi data is for NDPL Discom only

Annexure 3.35

SHARE OF INDUSTRY IN TOTAL SALE OF POWER

(%)

		2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU s						
1	Andhra Pradesh	30.54	29.94	29.44	31.42	31.93
2	Assam	24.50	27.60	30.20	29.02	27.46
3	Bihar	22.74	26.82	27.48	28.16	28.24
4	Chhatisgarh	55.38	39.94	38.36	42.32	46.44
5	Delhi	32.25	29.62	32.32		
6	Gujarat	36.85	37.00	38.67	39.70	39.84
7	Haryana	27.47	27.78	26.46	32.72	32.02
8	Himachal Pradesh	55.16	54.24	50.67	48.98	49.42
9	Jammu & Kashmir	23.57	19.45	22.33	22.04	22.04
10	Jharkhand	46.18	42.80	40.36	36.97	34.77
11	Karnataka	23.02	22.55	22.22	22.83	23.58
12	Kerala	30.78	31.08	31.90	32.09	33.09
13	Madhya Pradesh	24.41	25.34	27.98	28.07	26.62
14	Maharashtra	45.45	45.63	44.88	42.70	42.70
15	Meghalaya	47.98	50.45	47.88	47.93	49.73
16	Orissa	56.60	56.76	52.72		
17	Punjab	34.40	33.86	34.02	31.69	30.93
18	Rajasthan	30.73	28.92	26.37	26.12	26.11
19	Tamil Nadu	37.89	33.86	31.93	34.68	35.76
20	Uttar Pradesh	22.37	23.74	25.99	21.94	23.54
21	Uttrakhand	48.30	54.26	54.39	54.85	55.03
22	West Bengal	32.68	32.14	29.09	30.15	31.53
	Sub-total :(I)	34.42	33.59	33.19	32.99	33.41
II EDs						
1	Arunachal Pradesh	19.95	25.42	23.08	23.07	23.08
2	Goa	52.76	54.05	52.06	54.74	55.78
3	Manipur	2.64	2.88	3.02	3.93	3.75
4	Mizoram	0.60	0.62	0.76	0.73	0.76
5	Nagaland	4.78	3.83	3.64	3.76	3.93
6	Ponicherry	63.13	62.90	59.00	59.70	59.39
7	Sikkim	15.95	13.32	20.16	22.82	19.62
8	Tripura	2.45	3.66	3.75	4.50	4.68
	Sub-total :(b)	39.86	38.81	39.11	40.05	40.28
	Total (I+II) :	34.51	33.68	33.28	33.11	33.52

Note: Delhi data is for NDPL Discom only

PER CAPITA CONSUMPTION OF ELECTRICITY (kWh)

	Region/State/U.T.	2006-07	2007-08	2008-09	2009-10
1	Haryana	1208.21	1295.58	1278.85	1222.21
2	Himachal Pradesh	872.00	966.80	1015.76	1379.99
3	Jammu & Kashmir	758.63	794.54	894.40	952.02
4	Punjab	1506.28	1613.71	1552.99	1526.86
5	Rajasthan	590.69	691.98	747.07	736.20
6	Uttar Pradesh	340.50	345.66	371.89	348.37
7	Uttaranchal	706.84	855.54	920.69	1112.29
8	Chandigarh	1486.66	1556.65	1247.49	1340.00
9	Delhi	1417.22	1433.36	1374.16	1651.26
	Northern Region	623.09	666.39	688.15	695.11
10	Chattisgarh	934.78	873.57	1417.60	1546.94
11	Gujarat	1330.82	1486.31	1457.29	1615.24
12	Madhya Pradesh	581.73	623.11	583.75	602.07
13	Maharashtra	975.43	1019.91	969.40	1028.22
14	Goa	2097.71	2168.77	2259.85	2263.63
15	Daman & Diu	8950.43	9472.79	6507.96	7118.23
16	D & N Haveli	13310.33	14787.38	11094.49	11863.64
	Western Region	969.08	1029.53	1039.02	1116.92
17	Andhra Pradesh	802.39	877.06	928.16	966.99
18	Karnataka	805.50	843.67	854.35	903.24
19	Kerala	440.77	444.48	444.00	525.25
20	Tamil Nadu	1079.94	1144.94	1134.48	1131.58
21	Puducherry	2692.81	2357.28	1988.37	1743.37
22	Lakshadweep	402.14	426.85	453.00	418.14
	Southern Region	836.56	887.97	904.49	938.88
23	Bihar	91.00	100.69	107.14	122.11
24	Jharkhand	659.15	643.05	695.55	880.43
25	Orissa	664.68	751.54	775.16	874.26
26	West Bengal	396.79	439.17	442.45	550.16
27	A & N Island	458.05	514.61	474.70	493.98
28	Sikkim	533.37	732.22	806.29	850.00
	Eastern Region	357.67	388.03	401.11	481.36
29	Assam	175.09	188.03	199.15	204.80
30	Manipur	194.80	222.31	241.73	240.22
31	Meghalaya	546.83	629.19	655.38	675.19
32	Nagaland	173.29	199.35	225.98	218.03
33	Tripura	178.90	202.41	203.75	335.47
34	Arunachal Para.	299.11	456.39	447.47	470.00
35	Mizoram	162.63	353.95	378.29	376.99
	N.E. Region	203.98	229.16	241.85	257.98
	ALL INDIA	671.89	717.13	733.54	778.71

Annexure 3.37

POWER SUPPLY POSITION IN INDIA

			Energy Surplus (+)/Deficit(-)%						Peak Surplus(+)/Deficit(-)%					
			2000-01 (End of 9th Plan)		2006-07 (End of 10th Plan)		2010- 11		2000-01 (End of 9 th Plan)		2006-07 (End of 10th Plan)		2010- 11	
	I. SEBs													
1	Andhra Pradesh	(-)	7.8	(-)	4.4	(-)	3.2	(-)	14.6	(-)	15.4	(-)	5.1	
2	Assam	(+)	7.8	(-)	7.3	(-)	6.3	(+)	0.9	(-)	10.8	(-)	3.5	
3	Bihar	(-)	7.0	(-)	8.1	(-)	14.0	(-)	14.1	(-)	16.9	(-)	22.5	
4	Chattisgarh			(-)	6.4		1.7			(+)	27.5	(+)	9.8	
5	Delhi	(-)	4.9	(-)	1.7	(-)	0.3	(-)	13.3	(-)	6.6	(-)	1.5	
6	Gujarat	(-)	9.7	(-)	13.4	(-)	5.7	(-)	11.5	(-)	30.2	(-)	7.8	
7	Haryana	(-)	2.8	(-)	11.9	(-)	5.6	(-)	3.3	(-)	13.1	(-)	9.2	
8	Himachal Pradesh	(-)	3.2	(-)	2.7	(-)	3.5	(-)	0.0	(-)	0.0	(-)	7.1	
9	Jammu & Kashmir	(-)	16.4	(-)	31.9	(-)	24.0	(-)	16.8	(-)	14.4	(-)	28.6	
10	Jharkhand			(-)	4.9	(-)	3.4			(-)	2.3		0.0	
11	Karnataka	(-)	9.1	(-)	2.1	(-)	7.6	(-)	13.2	(-)	7.1	(-)	8.3	
12	Kerala	(-)	6.6	(-)	2.0	(-)	1.4	(-)	5.1	(-)	2.1	(-)	5.8	
13	Madhya Pradesh	(-)	12.4	(-)	15.2	(-)	20.2	(-)	25.3	(-)	20.8	(-)	8.7	
14	Maharashtra	(-)	10.5	(-)	19.0	(-)	16.6	(-)	15.5	(-)	27.4	(-)	18.1	
15	Meghalaya	(+)	7.3		22.3	(-)	12.5		0.0	(-)	33.1	(-)	3.4	
16	Orissa	(+)	3.1	(-)	1.8	(-)	0.3	(+)	2.2	(-)	3.2	(-)	1.1	
17	Punjab	(-)	2.7	(-)	9.8	(-)	6.0	(-)	2.0	(-)	26.9	(-)	15.5	
18	Rajasthan	(-)	3.6	(-)	4.6	(-)	0.9	(-)	2.5	(-)	14.6	(-)	3.7	
19	Tamil Nadu	(-)	7.6	(-)	1.7	(-)	6.5	(-)	15.3	(-)	2.7	(-)	10.0	
20	Uttar Pradesh	(-)	14.6	(-)	15.8	(-)	15.0	(-)	15.0	(-)	18.0	(-)	3.7	
21	Uttarakhand			(-)	6.0	(-)	6.2				10.6		0.0	
22	West Bengal	(+)	0.9	(-)	2.2	(-)	1.7	(-)	4.7	(-)	2.4	(-)	0.8	
	II. EDs													
1	Arunachal Pradesh	(+)	1.9	(-)	9.4	(-)	14.8		NA	(-)	12.6	(-)	15.8	
2	Manipur	(-)	2.3	(-)	4.9	(-)	11.3		NA	(-)	4.7	(-)	2.5	
3	Mizoram	(+)	2.7	(-)	6.0	(-)	14.5		NA	(-)	3.6	(-)	7.9	
4	Nagaland	(+)	2.6	(-)	4.4	(-)	10.9		NA	(-)	0.0	(-)	6.8	
5	Tripura	(+)	3.9	(-)	9.2	(-)	9.2		NA	(-)	16.0	(-)	10.5	
6	Chandigarh	(-)	0.4	(+)	0.1	(-)	0.0	(-)	15.8	(+)	6.4	(-)	0.0	
7	Goa	(-)	10.8	(+)	0.7	(-)	2.1	(-)	6.9	(+)	8.7	(-)	14.2	
	Overall:All India	(-)	7.8	(-)	9.6	(-)	8.5	(-)	18.8	(-)	13.8	(-)	10.3	

NUMBER OF VILLAGES ELECTRIFIED

		Total Villages	Cumulative	% Elerc T.	Cumulative	% Elerc T.	Cumulative	% Elerc T.
		2001 Census	March-2007	March-2007	March-2008	March-2008	on 03.2009	March-2009
	States							
1	Andhra Pradesh	26613	26613	100.00	26613	100.00	26613	100.00
2	Arunachal Pradesh	3863	2195	56.82	2195	56.82	2195	56.82
3	Assam	25124	19741	78.57	19741	78.57	20297	80.79
4	Bihar	39015	20620	52.85	20620	52.85	23914	61.29
5	Chattisgarh	19744	18830	95.37	18877	95.61	19129	96.89
6	Goa	347	347	100.00	347	100.00	347	100.00
7	Delhi	158	158	100.00	158	100.00	158	100.00
8	Gujarat	18066	17986	99.56	17993	99.60	18015	99.72
9	Haryana	6764	6764	100.00	6764	100.00	6764	100.00
10	Himachal Pradesh	17495	17169	98.14	17183	98.22	17183	98.22
11	Jharkhand	29354	9119	31.07	9119	31.07	9119	31.07
12	Jammu & Kashmir	6417	6304	98.24	6304	98.24	6304	98.24
13	Karnataka	27481	27125	98.70	27126	98.71	27458	99.92
14	Kerala	1364	1364	100.00	1364	100.00	1364	100.00
15	Madhya Pradesh	52117	50213	96.35	50213	96.35	50226	96.37
16	Maharashtra	41095	36038	87.69	36296	88.32	36296	88.32
17	Manipur	2315	1942	83.89	1966	84.92	1986	85.79
18	Meghalaya	5782	3428	59.29	3428	59.29	3428	59.29
19	Mizoram	707	570	80.62	570	80.62	570	80.62
20	Nagaland	1278	823	64.40	823	64.40	823	64.40
21	Orissa	47529	26535	55.83	26535	55.83	29735	62.56
22	Punjab	12278	12278	100.00	12278	100.00	12278	100.00
23	Rajasthan	39753	26676	67.10	27155	68.31	27506	69.19
24	Sikkim	450	425	94.44	425	94.44	425	94.44
25	Tamil Nadu	15400	15400	100.00	15400	100.00	15400	100.00
26	Tripura	858	491	57.23	491	57.23	491	57.23
27	Uttar Pradesh	97942	83558	85.31	86316	88.13	86450	88.27
28	Uttarakhand	15761	15055	95.52	15213	96.52	15276	96.92
29	West Bengal	37945	34555	91.07	36380	95.88	36934	97.34
	Total (States)	593015	482322	81.33	487893	82.27	496684	83.76
	Total (UTs)	717	542	75.59	542	75.59	552.00	76.99
	Total (States + UTs)	593732	482864	81.33	488435	82.27	497236	83.75

Annexure-3.39**Energisation of Pumps**

		Cumulative	Cumulative	Cumulative	Cumulative
		on 03.2000	March 2007	March 2008	March 2009
	States				
1	Andhra Pradesh	1918712	2440823	2599635	2680671
2	Arunachal Pradesh	0	0	0	0
3	Assam	3675	3675	3675	3675
4	Bihar	272629	272331	273102	273722
5	Chattisgarh		159662	182435	209917
6	Goa	6658	7485	8143	8143
7	Delhi		25883	25883	25883
8	Gujarat	670422	839676	873977	910965
9	Haryana	411022	474296	515869	526398
10	Himachal Pradesh	5762	11659	12934	14399
11	Jharkhand		9453	9453	9453
12	Jammu & Kashmir	5621	9714	9714	9714
13	Karnataka	1181963	1705225	1723224	1729295
14	Kerala	373862	474602	490054	511285
15	Madhya Pradesh	1298108	1349570	1351075	1355079
16	Maharashtra	2275531	2777832	2897155	3013183
17	Manipur	45	45	45	45
18	Meghalaya	65	65	65	65
19	Mizoram	0	0	0	0
20	Nagaland	176	194	194	194
21	Orissa	74526	74625	74625	74625
22	Punjab	755141	966073	981157	1032616
23	Rajasthan	613061	800941	830705	909976
24	Sikkim	0	0	0	0
25	Tamil Nadu	1680312	1920472	1955114	1990259
26	Tripura	2094	4385	4629	4865
27	Uttar Pradesh	817673	874966	896475	898212
28	Uttarakhand		18915	20119	21040
29	West Bengal	109291	114490	115462	116129
	Total (States)	12476349	15337057	15854918	16329808
	Total (UTs)	37895	13240	13303	13349
	Total (States + UTs)	12514244	15350297	15868221	16343157

Chapter 4

Financial Performance

4.1 INTRODUCTION

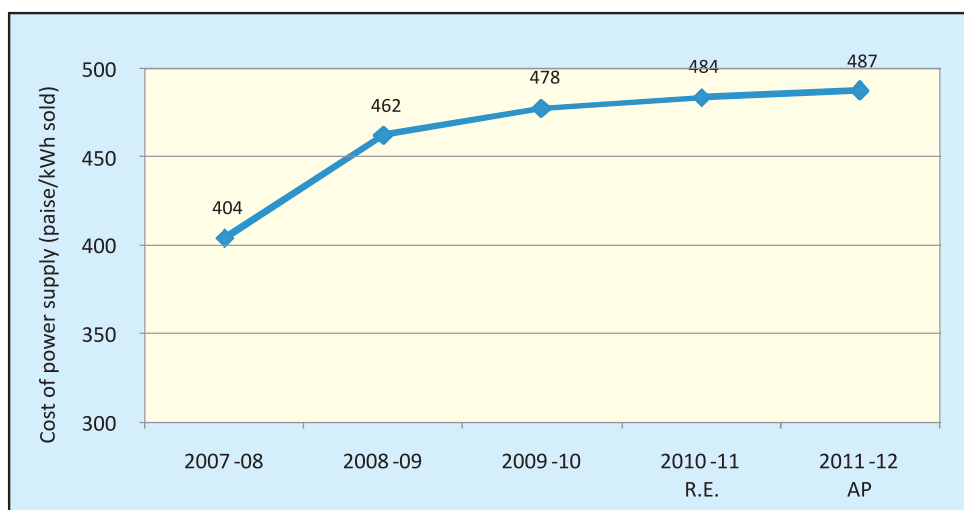
This chapter focuses on the financial performance of the distribution utilities. The data relating to performance parameters such as the cost of supply of electricity and its various components such as, average tariff and revenue realization (including consumer category-wise tariff), unit cost-revenue comparison, commercial profit and loss, subsidies and cross subsidization, net internal resources, rate of return, revenue arrears and other related parameters have been analysed.

4.2 COST OF POWER SUPPLY

The cost of supply of electricity represents the cost incurred by the utility to supply electricity to ultimate consumers. The components considered for calculations include O&M expenditure, establishment & administration cost, interest payment liability, depreciation, fuel cost and the expenditure on power purchase. The fuel cost incurred by the utilities is accounted for in the calculation of the total cost of supply only in states where the generation and distribution are still integrated under a single company. For states where generation and distribution are unbundled, instead of the fuel cost, the cost of power purchase has been indicated.

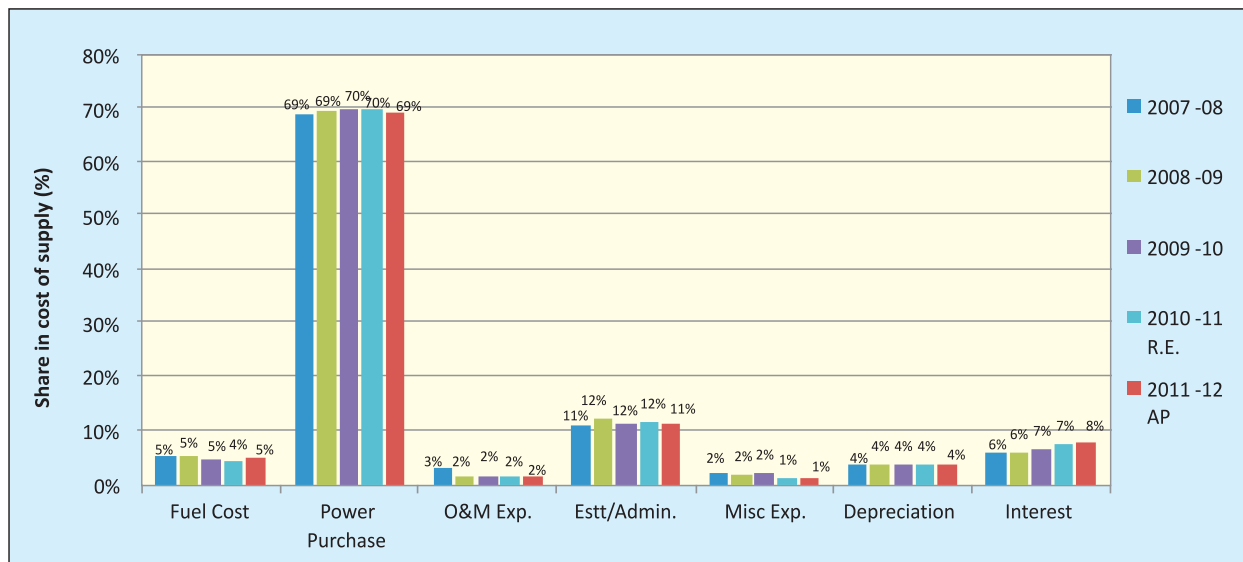
The average cost of supply per unit of electricity sold has been progressively increasing over the years. From 263 paise per kWh sold in 1998-99, the cost of supply has increased to 478 paise per kWh sold in 2009-10, implying an annual growth rate of 7.4 per cent. The cost of supply per unit sold is shown below (Figure 4.1).

Figure 4.1
Cost of Power Supply (paise/kWh sold) from 2007-08 to 2011-12.



The increase in the total cost of supply could be attributed mainly to the rise in interest payments, establishment & administration expenses, and the expenditure on power purchase. Figure 4.2 below shows the share of each component in the total cost of power supply from 2007-08 to 2011-12. The share of each component remained relatively constant from 2007-08 to 2011-12. The expenditure on power purchase was the largest component of the total cost of supply – with a share of 70% in 2009-10. As mentioned earlier, the fuel cost is only accounted for in states where generation and distribution are not unbundled.

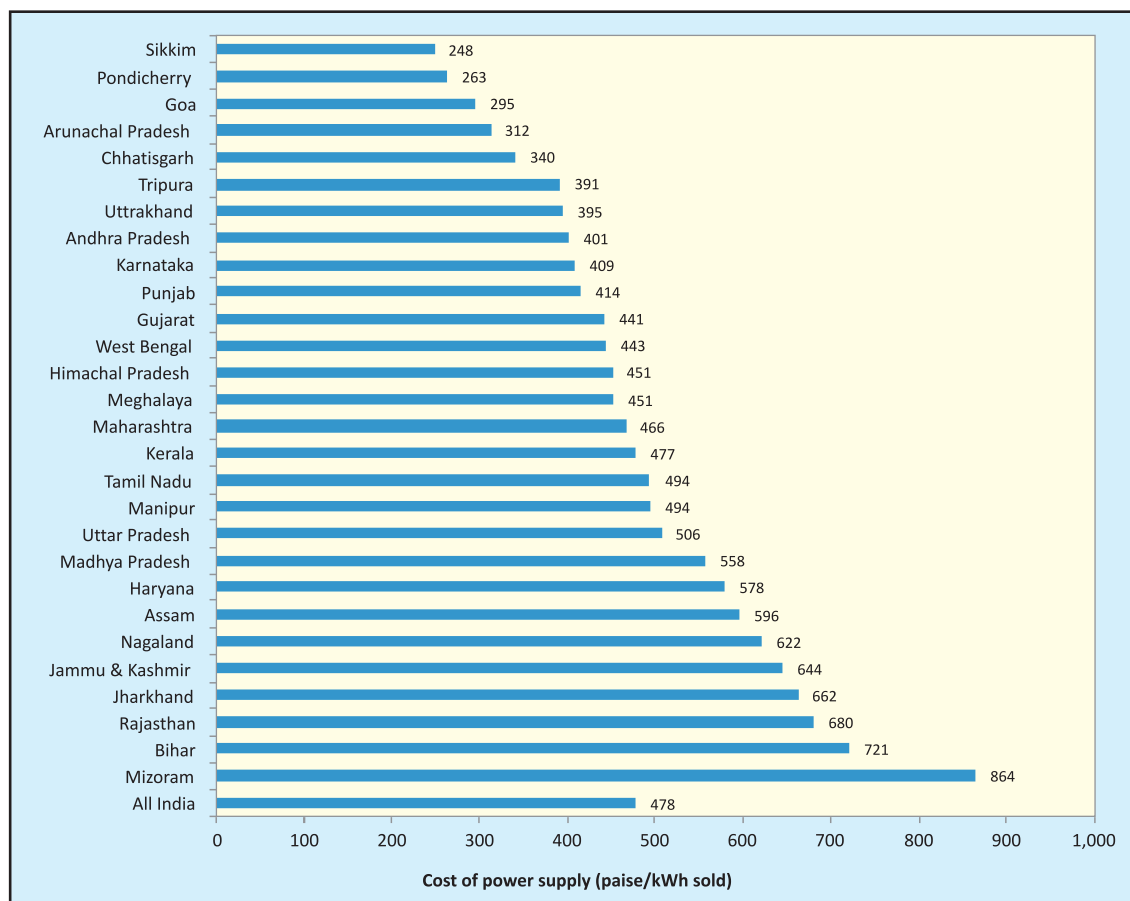
Figure 4.2
Share of each cost component (%) in total cost of power supply from 2007-08 to 2011-12



In the four years from 2007-08 to 2011-12, the overall unit cost of supply increased by 21%. Maximum increase was in the interest payments (65%), followed by increase in establishment and administration expenses (24%), power purchase (21%) and depreciation (21%). The O&M expenses and other miscellaneous expenses decreased by 36% each during the same period. The changes in individual components of the cost of power supply are discussed in further details in the next section.

The variation in the cost of supply across different states for 2009-10 is shown in Figure 4.3 below. The share of individual components of the cost of supply for each individual state for 2009-10 is shown in Annexure 4.4.

Figure 4.3
Cost of Power Supply (paise/kWh sold) across Different States for 2009-10



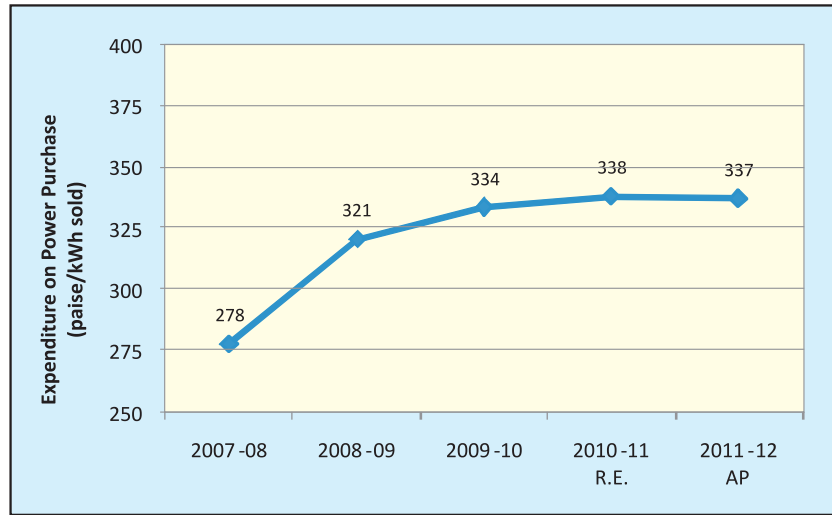
4.3 COMPONENTS OF COST

All components of cost namely expenditure on power purchase, O&M expenses, establishment and administration expenses, fuel cost, depreciation and interest payments, have been taken into account in the determination of the cost of supply. This section presents a detailed discussion on each of the component of the cost of supply.

4.3.1 Expenditure on Power Purchase

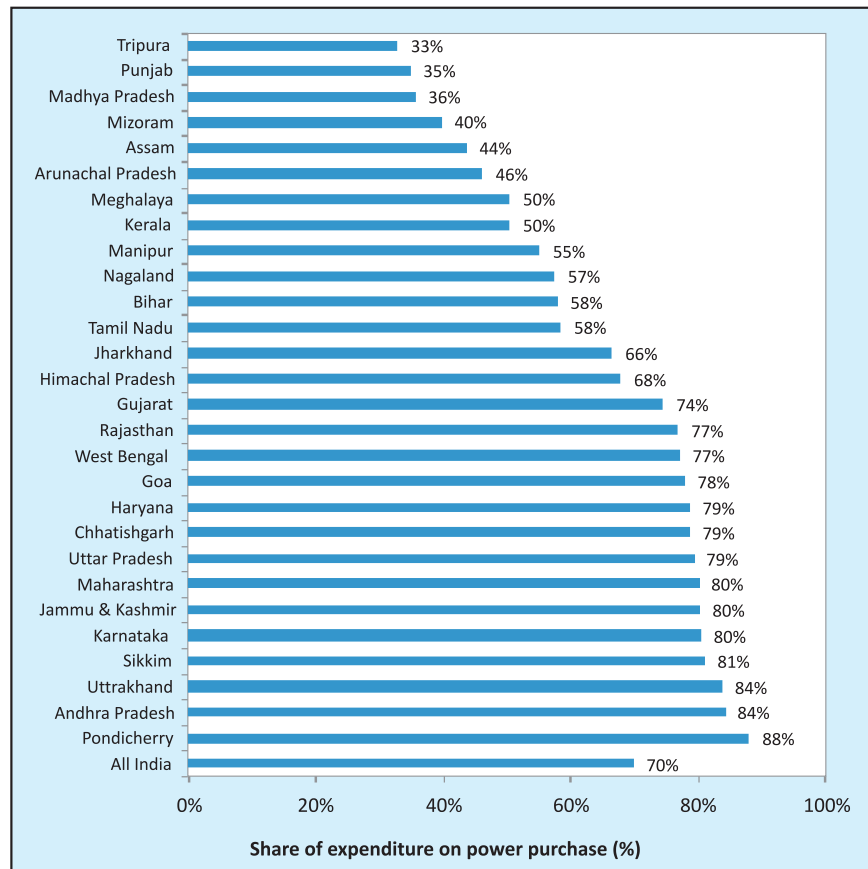
The share of expenditure on power purchase in the total cost of supply has increased from 39 percent in 1998-99 to 70 percent in 2009-10. One possible reason for increase in share of expenditure in power purchase is that many states have unbundled electricity generation and distribution since the 1990s, and so the share of power purchase has increased. The expenditure on power purchase expressed in terms of expenditure incurred per unit of electricity sold, has increased from 152 paise/kWh sold in 1998-99 to 334 paise/kWh sold in 2009-10. The expenditure on power purchase (in terms of per kWh sold) in the last five years is shown in Figure 4.4.

Figure 4.4
Expenditure on Power Purchase (paise/kWh sold) from 2007-08 to 2011-12



The inter-state variation in the share of expenditure on power purchase in the total cost of power supply is presented in Figure 4.5 for 2009-10.

Figure 4.5
State-wise variation in the Share of Expenditure on Power Purchase in Total Cost of Supply for 2009-10

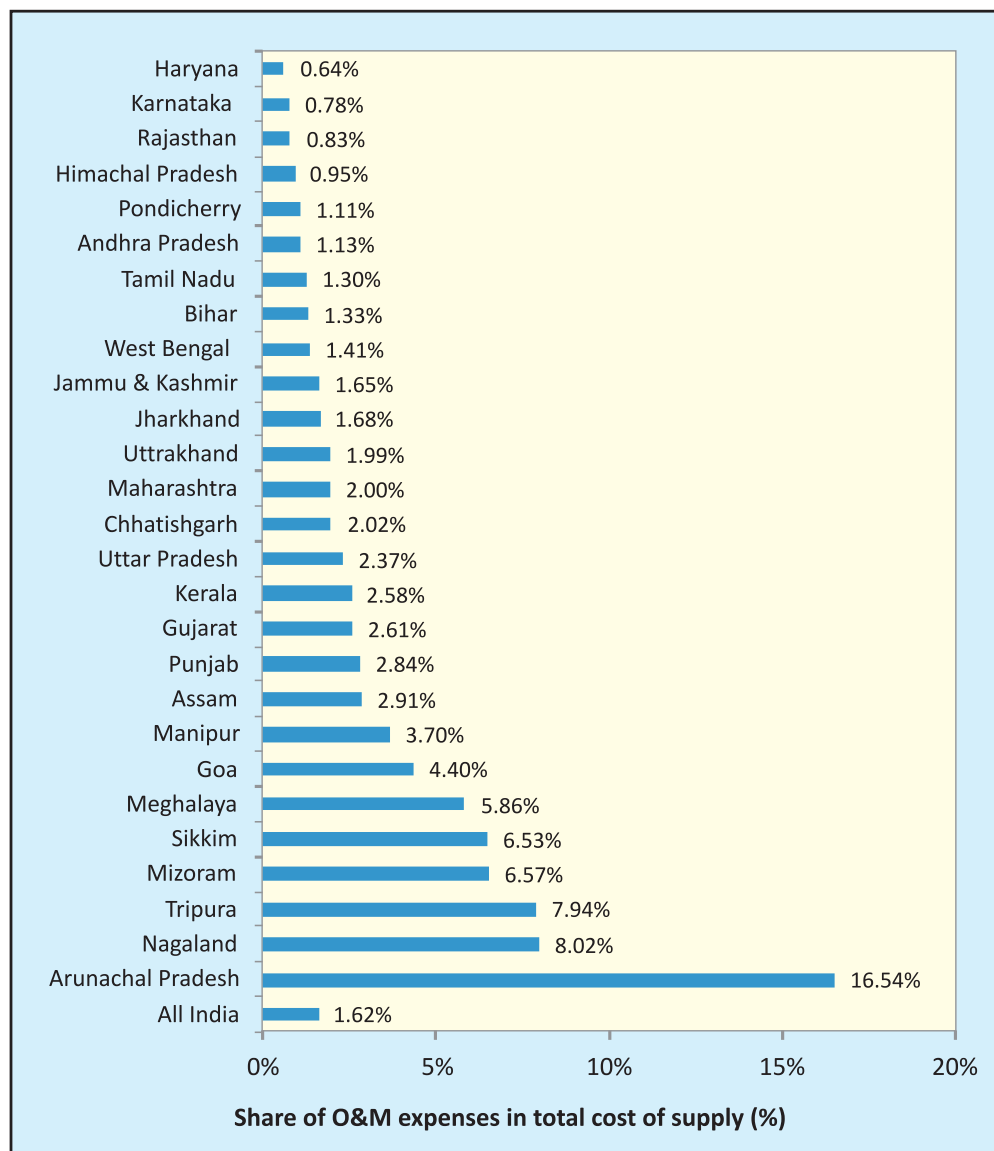


4.3.2 Expenditure on O&M Works

The share of O&M in the cost of power supply has reduced from 3.57% in 1998-99 to 1.62% in 2009-10. It is expected to further decrease to 1.57% in 2011-12. The share of O&M in total cost of supply varies across states as shown below for 2009-10 (Figure 4.6).

Figure 4.6

Share of O&M Expenses in the Total Cost of Supply across Different States in 2009-10

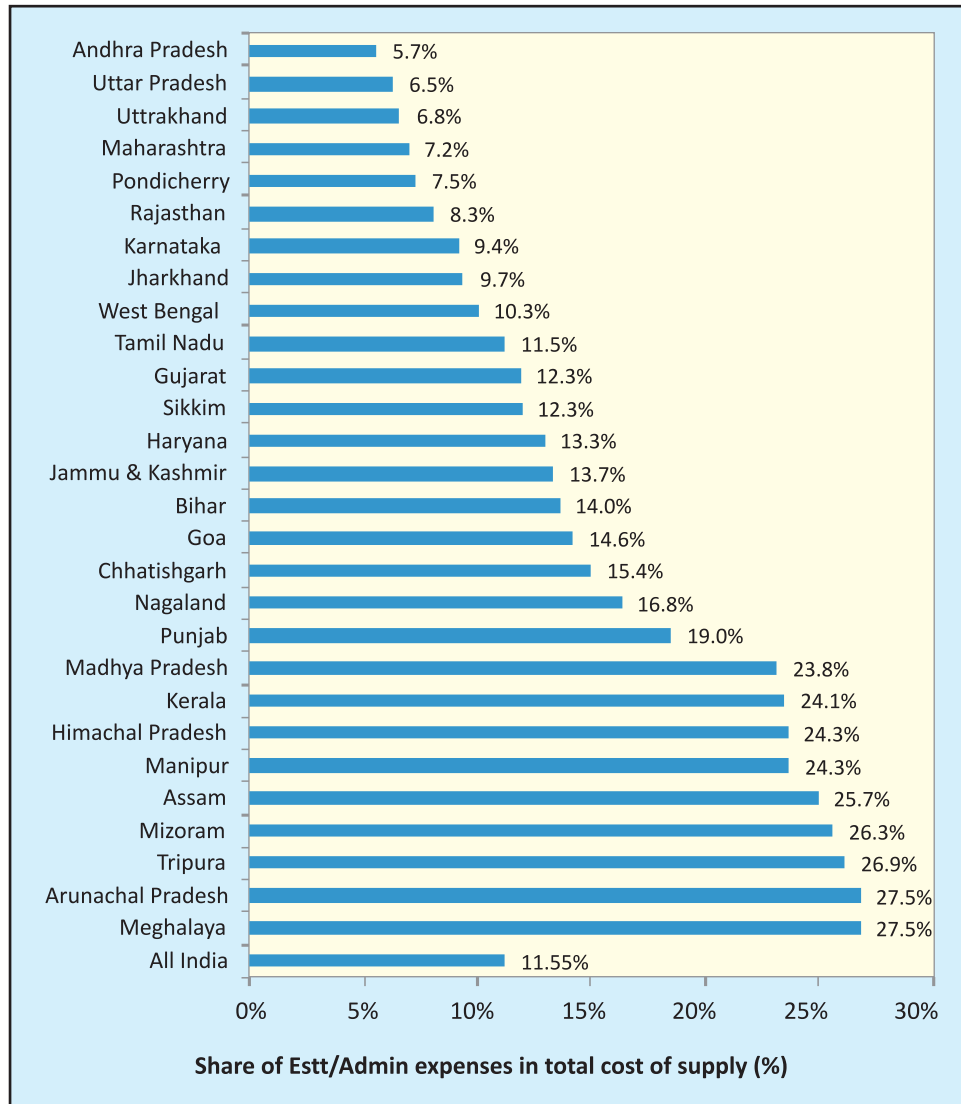


4.3.3 Expenditure on establishment and administration

Establishment and Administration charges comprise mainly the wage and salaries of staff and pension payments in case of certain states. Its share of establishment and administration expenses in the unit cost of supply has changed from 14.6% in 1998-99 to 11.55% in

2009-10. The share has remained relatively constant in recent years – in 2007-08 it was 11.06% and in 2011-12 (AP) it is 11.37%. State-wise variation is shown below for 2009-10 (Figure 4.7).

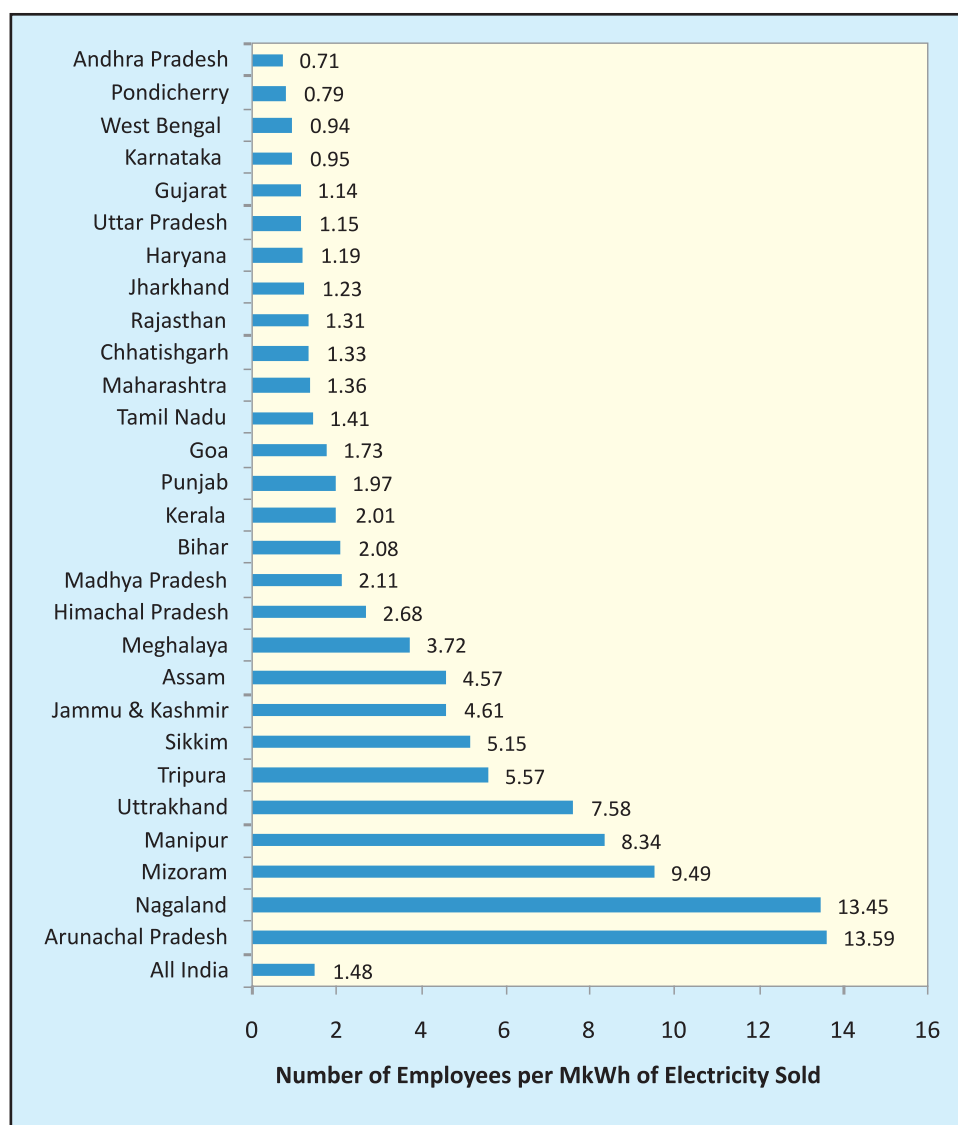
Figure 4.7
Share of Establishment and Administration Expenses in the Total Cost of Supply across Different States in 2009-10



The number of employees in utilities has declined from 9.77 lakh in 1998-99 to 7.4 lakh in 2009-10. Consequently, the number of employees per million units of electricity sold has also declined. The average employees per M kWh of electricity sold declined from 3.25 in 1998-99 to 1.48 in 2009-10, and is projected to fall to 1.21 in 2011-12. As a result, the number of employees per thousand consumers also declined from 9.89 in 1998-99 to 0.45 in 2009-10.

State-wise variation is shown in figure below for 2009-10 (Figure 4.8).

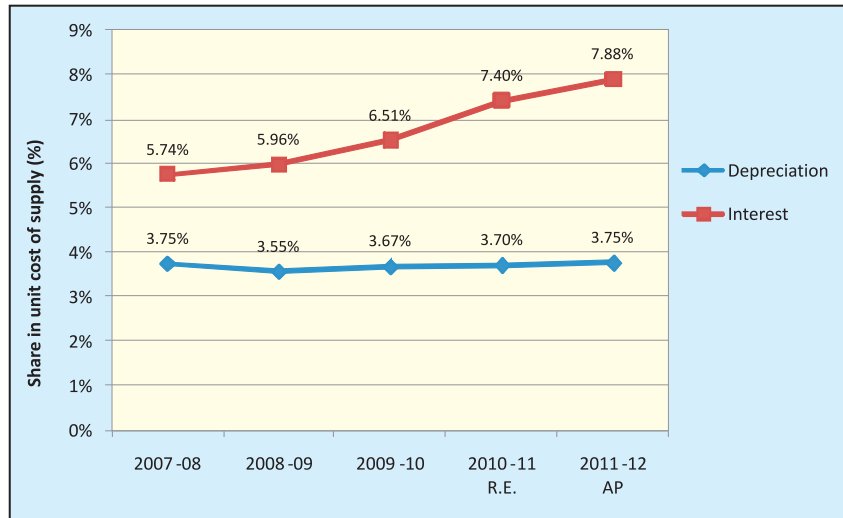
Figure 4.8
Number of Employees (per MkWh of Electricity Sold) across Different States for 2009-10.



4.3.4 Nature of Fixed Costs

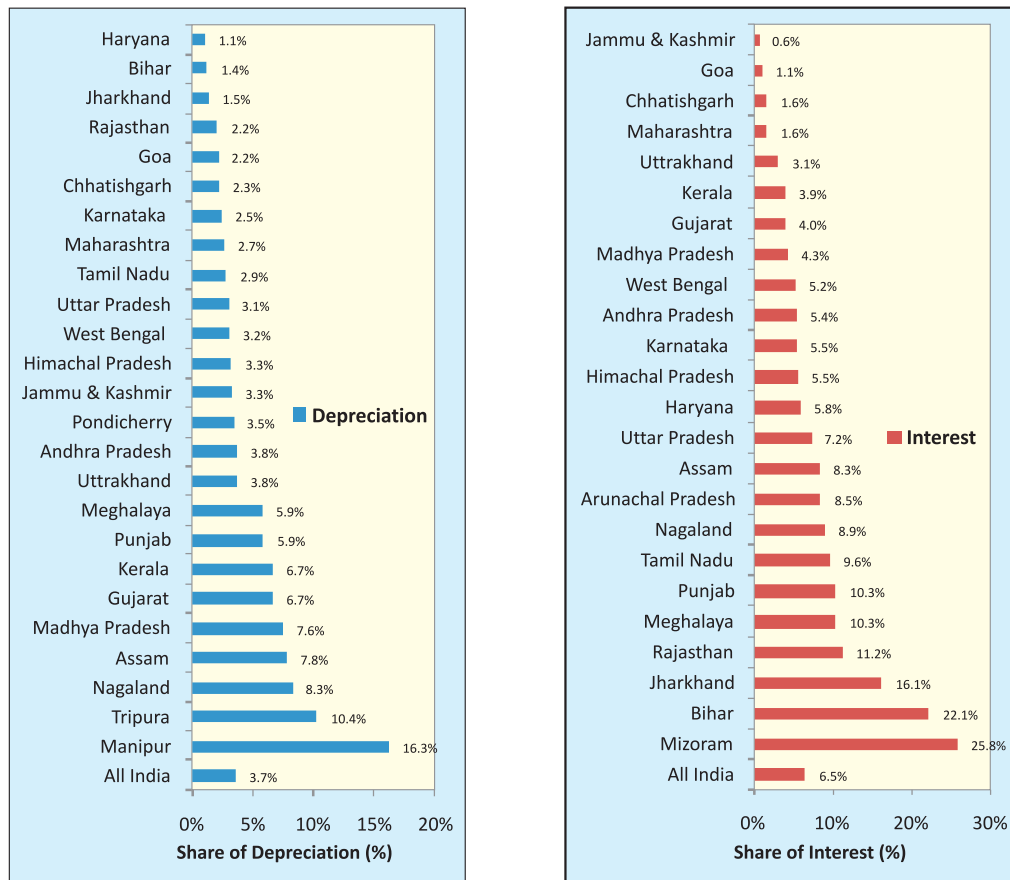
The share of fixed costs, viz., depreciation and interest payments, in the average cost of supply has declined over the years. While the share of depreciation declined from 6.4% in 1998-99 to 3.67% in 2009-10, the share of interest cost, i.e. interest payable to the financial institutions and the State Governments came down to about 6.5% in 2009-10 from a level of 13.5% in 1998-99. The share of depreciation and interest payments in the cost of supply in last five years is shown in figure below (Figure 4.9). While the share of depreciation is expected to stay relatively constant, the share of interest payments is expected to increase to 7.9% in 2011-12 from 6.5% in 2009-10.

Figure 4.9
Share of Depreciation and Interest Payment in the Cost of Supply from 2007-08 to 2011-12



State-wise variation in the share of depreciation and interest payments for 2009-10 can be seen in Figure 4.10 below.

Figure 4.10
Share of Depreciation and Interest Payment in the Cost of Supply across Different States for 2009-10

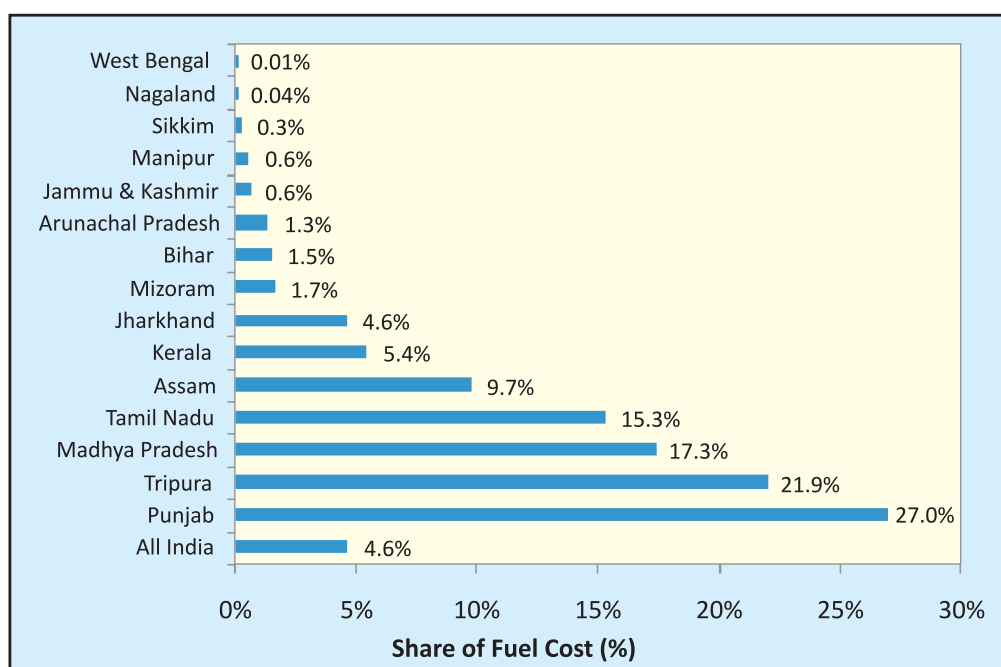


4.3.5 Expenditure on Fuel

Expenditure on fuel refers to the fuel cost incurred in generation of power by the state utilities. The share of fuel cost in the total cost of supply was 20 percent in 1998-99, and has since decreased to 5 percent in 2009-10. The reason for decline in share of fuel cost is that most states have unbundled the electricity generation and distribution since the 1990s, and so the fuel cost does not appear in the calculation of the cost of power supply.

Figure 4.11 gives the state-wise variation in the share of fuel cost in the total cost of power supply for 2009-10. For these states, we can say that the electricity generation and distribution are not totally unbundled as of 2009-10, and the distribution utilities still generate some electricity. Note that states that have zero fuel cost share do not appear in this figure, for example Gujarat and Haryana who have completely unbundled their electricity generation and distribution.

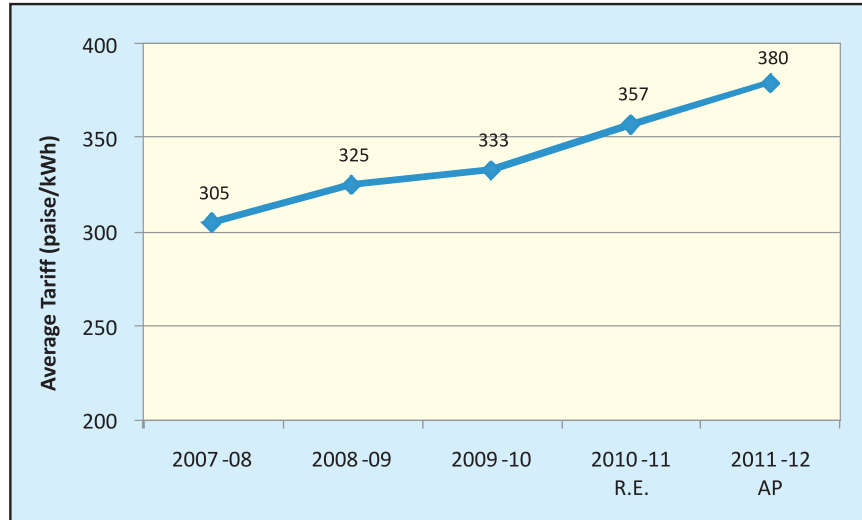
Figure 4.11
Share of Fuel Cost in the Cost of Supply across Different States for 2009-10



4.4 AVERAGE TARIFF AND REVENUE REALIZATION

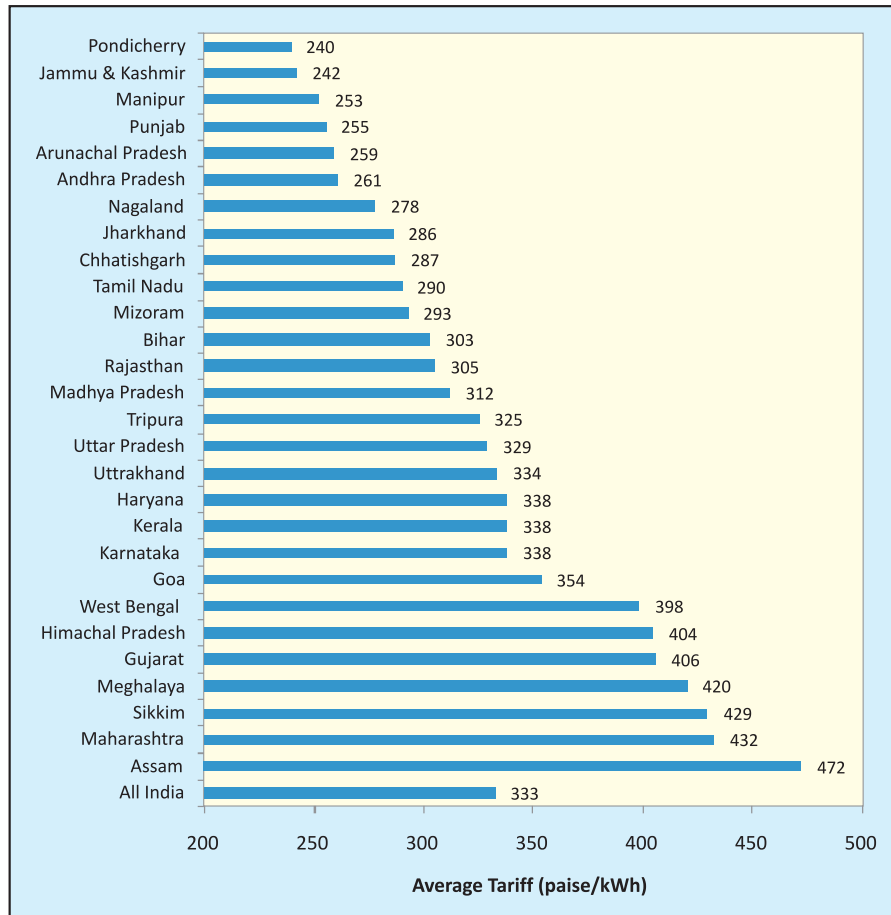
The average tariff here represents the tariff charged by the utilities to the ultimate consumers per unit of electricity sold. The average tariff has increased from 187 paise/kWh in 1998-1999 to 333 paise/kWh in 2009-10 implying an annual increase of 7.1 percent. The average tariff per unit sold in last five years is shown in figure below (Figure 4.12).

Figure 4.12
Average Tariff (paise/kWh sold) from 2007-08 to 2011-12



The average tariff per unit electricity sold varies across states as shown in Figure 4.13 for 2009-10.

Figure 4.13
State-wise variation in average tariff (paise/kWh sold) for 2009-2010



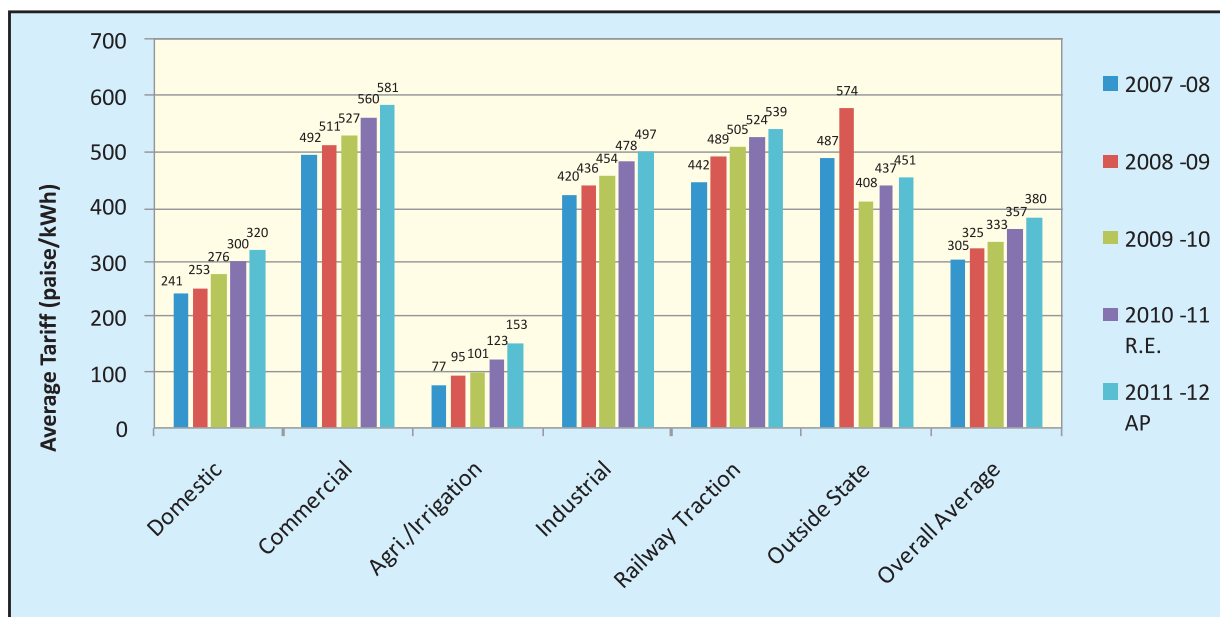
4.5 CONSUMER CATEGORY-WISE AVERAGE TARIFF

The consumer category-wise tariff for electricity from 2007-08 to 2011-12 is given in figure below (Figure 4.14). For the three years from 2007-08 to 2010-11, the average tariff increased by 17%. Over these three years, the maximum increase was in agriculture/irrigation tariff i.e. 59%, the domestic tariff increased by 24%, tariff for railway traction increased by 18%, the commercial and industrial tariff increased by 14% each. It may, however, be added that since nominal tariffs in agriculture are very low, even with a 59% increase, agricultural tariffs in nominal terms is still very low compared to other consumer categories.

The tariff for outside state sales has been fluctuating but during the period 207-08 to 2010-11, the tariff has actually decreased by 10% in 2010-11 compared to 2007-08.

Figure 4.14

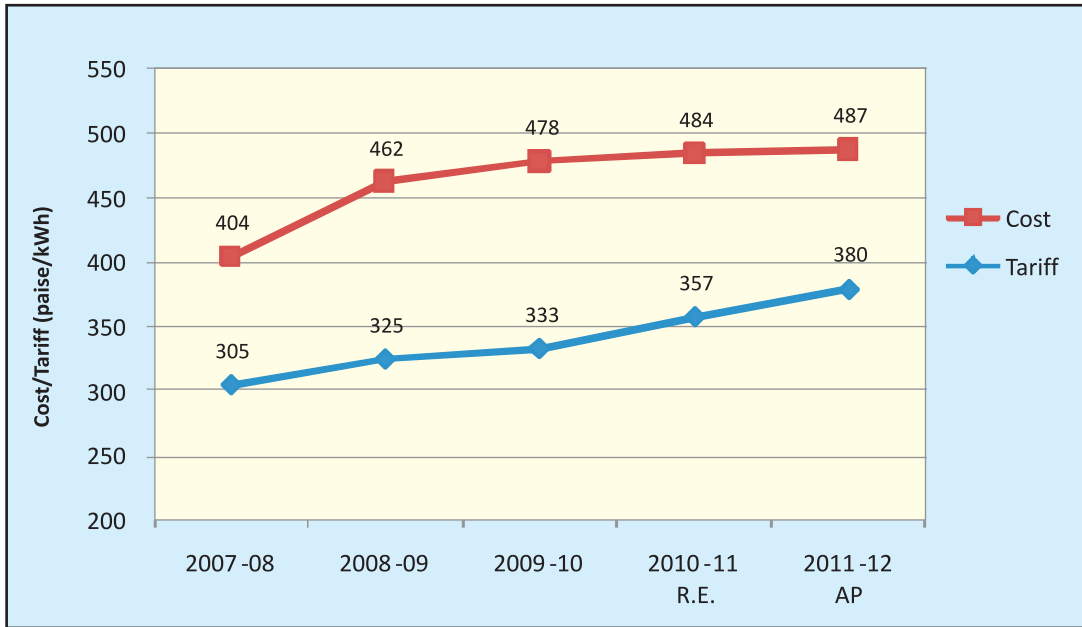
Consumer Category-wise Tariff for Electricity (paise/kWh) from 2007-08 to 2011-12



4.6 UNIT COST-REVENUE COMPARISON

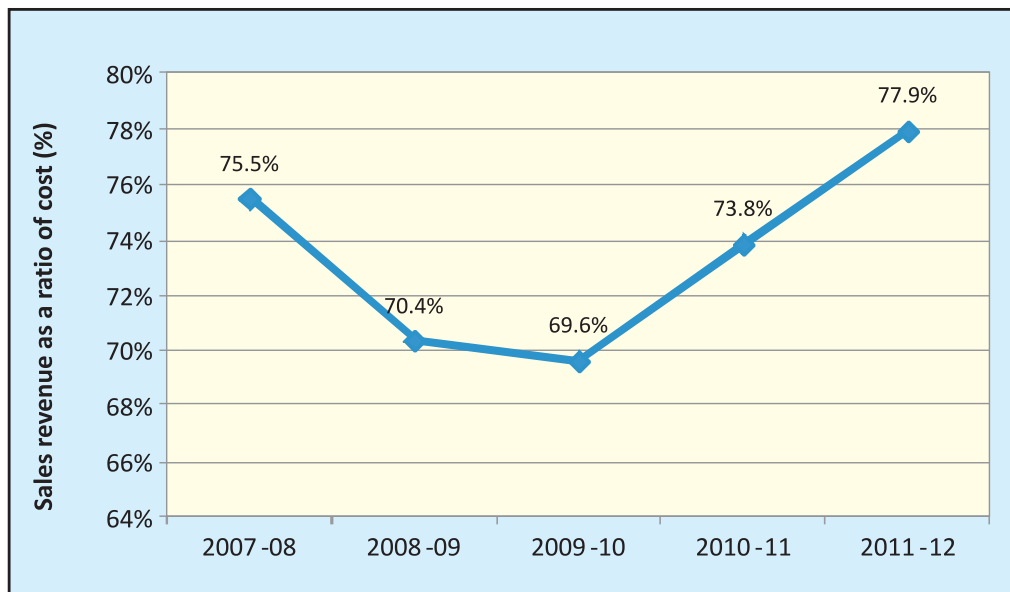
Though the average tariff has increased in the past few years, the rise has not been commensurate with the increase in the cost of supply. As a result, the gap between the cost of supply and the average tariff has been widening over the years. The gap has increased from 76 paise/kWh in 1998-99 to 145 paise/kWh in 2009-10. It is expected to decline to 107 paise/kWh in 2011-12. The cost of supply and average tariff from 2007-08 to 2011-12 is presented below (Figure 4.15).

Figure 4.15
Average Cost of Power Supply and Average Tariff Realized (paise/kWh)
from 2007-08 to 2011-12



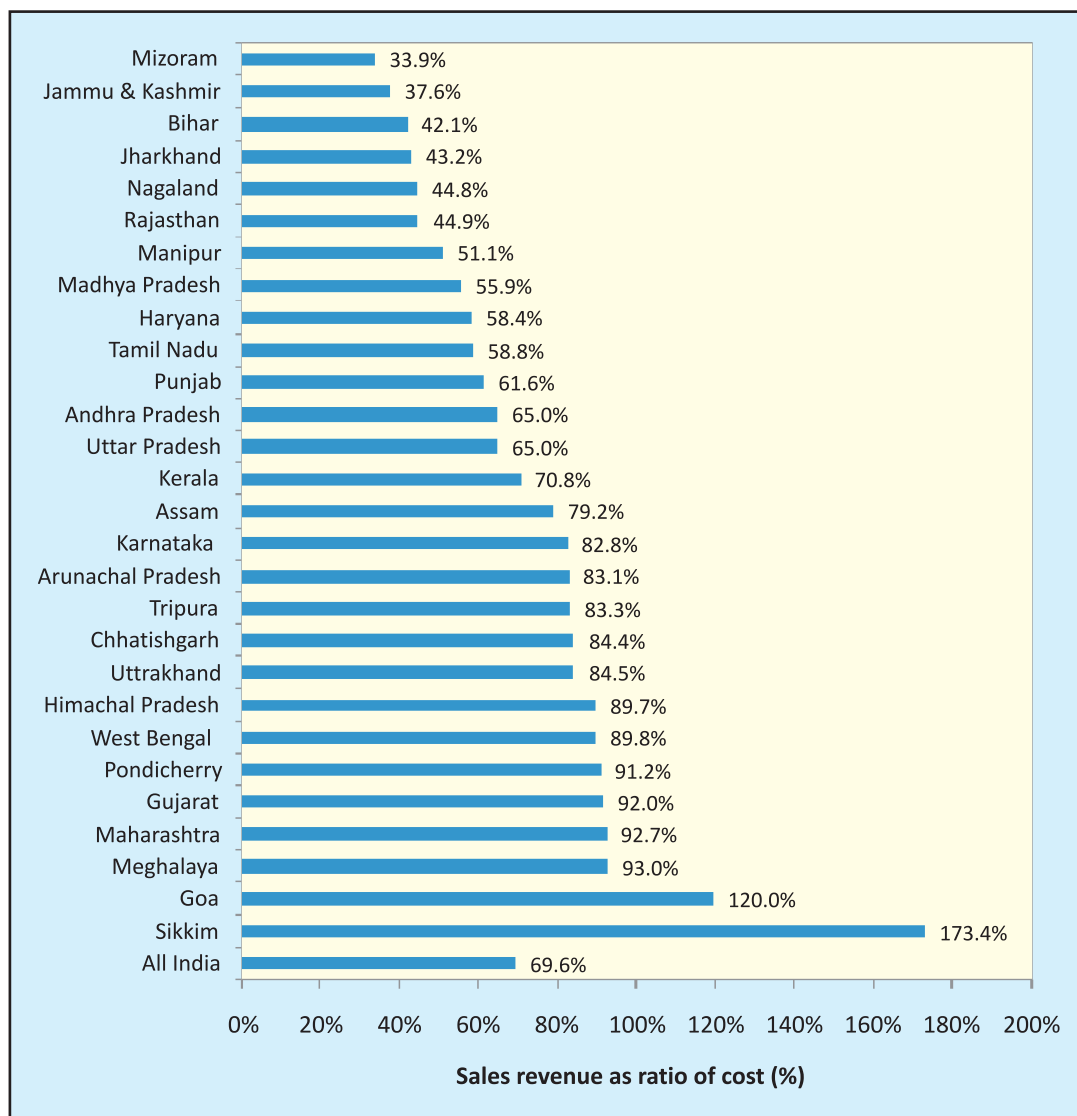
The level of recovery measured in terms of sales revenue as a ratio of cost has declined from 71.5% in 1998-99 to 69.6% in 2009-10. The level of recovery is expected to increase to 77.9% in 2011-12 (Figure 4.16).

Figure 4.16
Sales Revenue as a Ratio of Cost from 2007-08 to 2011-12



The inter-state variation in sales-revenue as a ratio of cost for 2009-10 is shown in figure below (Figure 4.17).

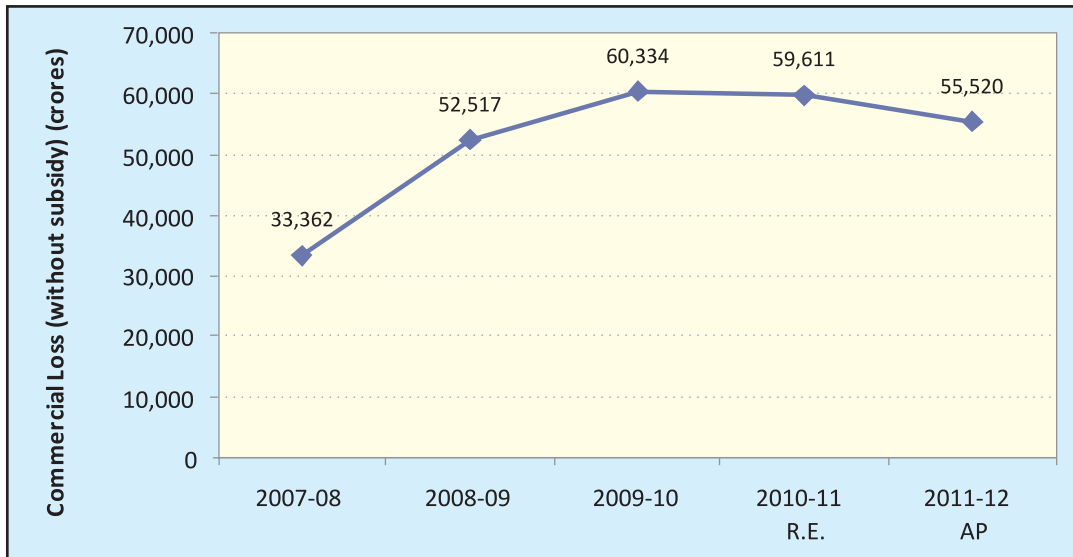
Figure 4.17
State-wise variation in the level of recovery in 2009-10



4.7 COMMERCIAL PROFIT/LOSS

The commercial loss is the gap between total revenue receivables and total expenditure in a given year. The total revenue includes subvention given by the State Government in lieu of subsidized power supplies to domestic and agricultural sectors. The total expenditure includes payments towards depreciation and interest payable to the State Government as well as financial institutions. The commercial losses (without subsidy) increased from Rs.20,860 crore in 1992-93 to Rs.60,223 crore in 2009-10. These losses are projected to reduce to 56,458 crore in 2011-12 (Figure 4.18).

Figure 4.18
Commercial Loss (without subsidy) from 2007-08 to 2011-12



The commercial losses (with subsidies) have also increased from Rs. 10,509 crore in 1998-99 to Rs. 35,769 crore in 2009-10. Table 4.1 presents the commercial losses (with subsidies) in the last five years.

Table 4.1
Commercial Loss (with subsidy) in Rs. crore from 2007-08 to 2011-12 (Rs. crore)

	Total Revenue	Revenue Expenditure	Gross Operating Surplus	Depreciation	Net Operating Surplus	Total Interest Payable	Commercial Profit (+)/ Loss(-)
2007-08	158,569	158,128	-440	6,623	- 6182	10,147	-16,330
2008-09	185,278	194,289	-9,011	7,640	-16,651	12,817	-29,468
2009-10	202,680	214,270	-11,590	8,761	-20,351	15,529	-35,880
2010-11 R.E.	223,434	235,433	-11999	9,802	-21,801	19,600	-41,401
2011-12 AP	262,288	265,213	-2,925	11,265	-14,190	23,646	-37,836

4.8 UNCOVERED SUBSIDY AND CROSS SUBSIDIZATION

The level of commercial losses of the utilities depend largely on the effective subsidies incurred towards sales to agriculture and domestic sectors, efforts to neutralize them through cross subsidization and the level of subventions provided by the State Governments. Table 4.2 below summarizes the level of uncovered subsidy for the past five years after adjusting the surplus generated from other sectors and subvention provided by the states.

Table 4.2
Subsidy to Agriculture and Domestic Sector & Uncovered Subsidy

(Rs. crore)

	Subsidy to Agricultural Consumers	Subsidy to Domestic Consumers	Subsidy on Inter-state Sales	Gross Subsidy	Subvention received from State	Net Subsidy	Surplus from Other Sectors	Uncovered Subsidy
2007-08	33,363	15,767	-1,124	48,005	17,032	30,973	8,962	22,011
2008-09	39,391	21,919	-1,529	59,781	23,049	36,731	-3,694	40,426
2009-10	44,738	23,744	1,333	69,815	24,453	45,361	-2,780	48,141
2010-11 R.E.	44,599	24,093	587	69,279	18,210	51,069	39	51,030
2011-12 AP	45,561	25,006	461	71,028	17,684	53,343	4,754	48,590

Annexures 4.33 to 4.41 give state-wise details regarding subsidy for agricultural, domestic and inter-state sales, subsidy after the introduction of the minimum agricultural tariff of 50 paise/kWh, subsidy/subvention provided by the State Government, surpluses generated from sales to other consumers particularly industrial and commercial consumers and uncovered subsidy.

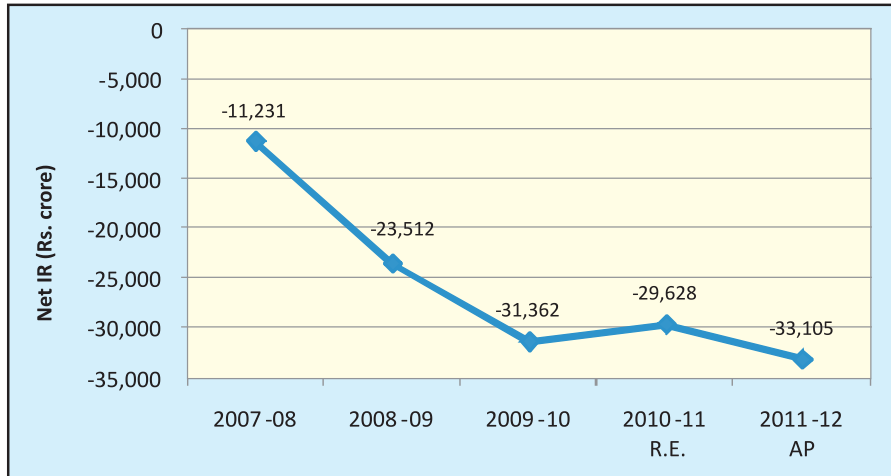
Gross Subsidy on energy sales has been increasing over the years because of the policy of the some of the States to provide electricity at subsidized rates to agriculture and domestic consumers. The gross subsidy on agriculture, domestic and inter-state is likely to increase from a level of Rs.48,024 crore in 2007-08 to Rs.71,016 crore in 2011-12 (AP). The utilities makes an effort to recover the losses due to the subsidized power supply to domestic and agriculture consumers by way of cross subsidization, where the industrial and commercial consumers pay a tariff higher than the cost of supply.

4.9 NET INTERNAL RESOURCES

The net internal resource (IR) refers to the surplus left with the utilities after meeting the revenue expenditure and loan repayment obligations. It includes depreciation and the subvention provided by the State Government. If the utilities function on commercial lines, as is statutorily required, the IR should have been positive in the normal course.

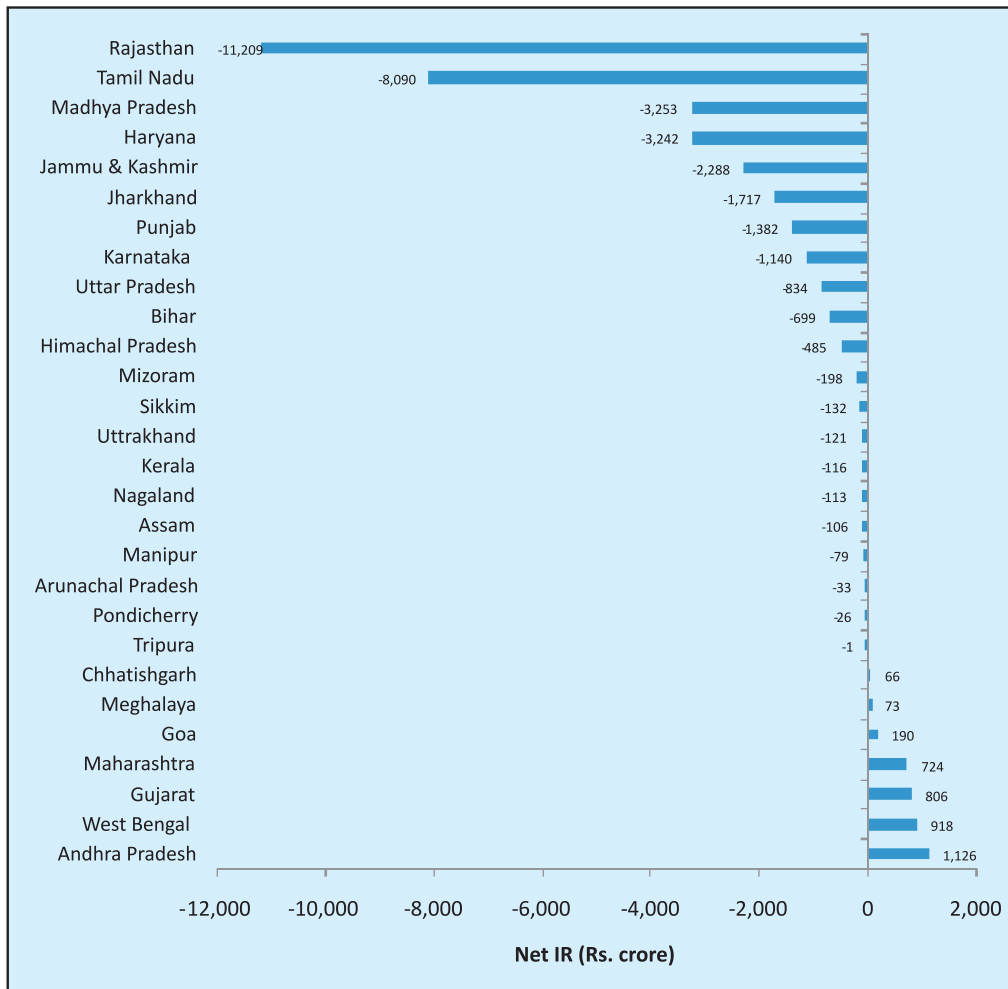
However, in practice IR have been negative in all these years. The net IR had increased from(-)8,954 crore in 1998-99 to (-) 31,362 crore in 2009-10. The net IR in last five years in shown in Figure 4.19.

Figure 4.19
Net IR (Rs. crore) from 2007-08 to 2011-12



The state-wise variation in net IR is shown in figure below for 2009-10 (Figure 4.20).

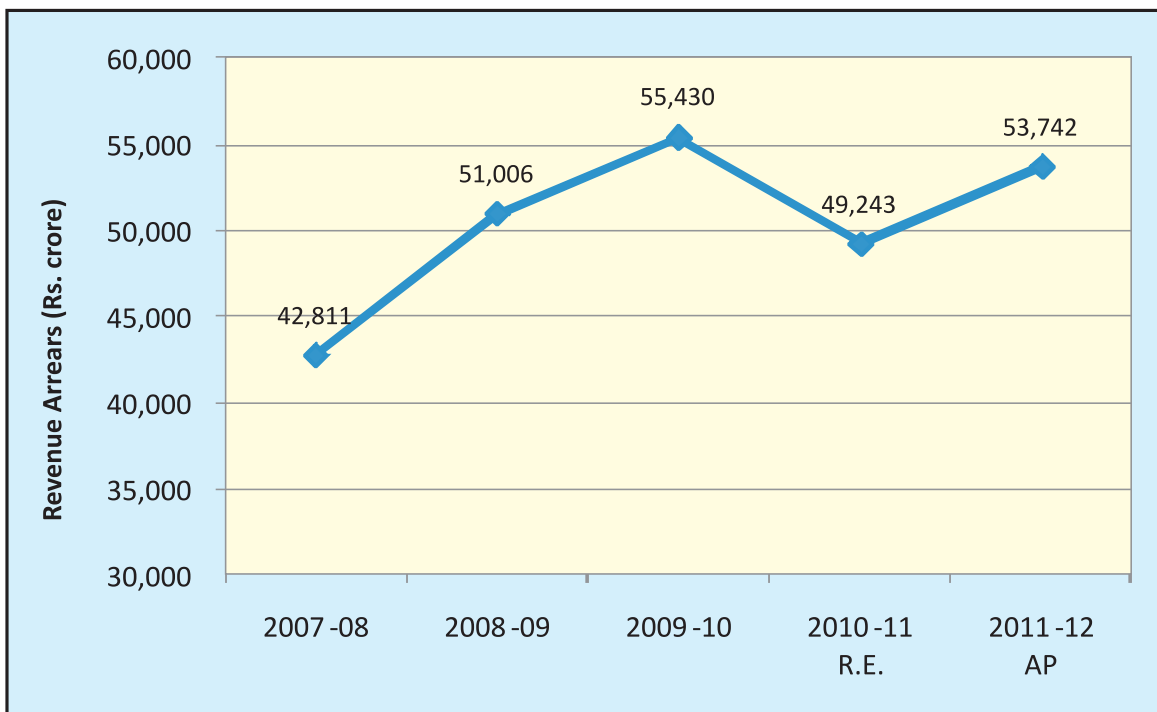
Figure 4.20
State-wise Net Internal Revenues (Rs. crore) for 2009-10



4.10 REVENUE ARREARS

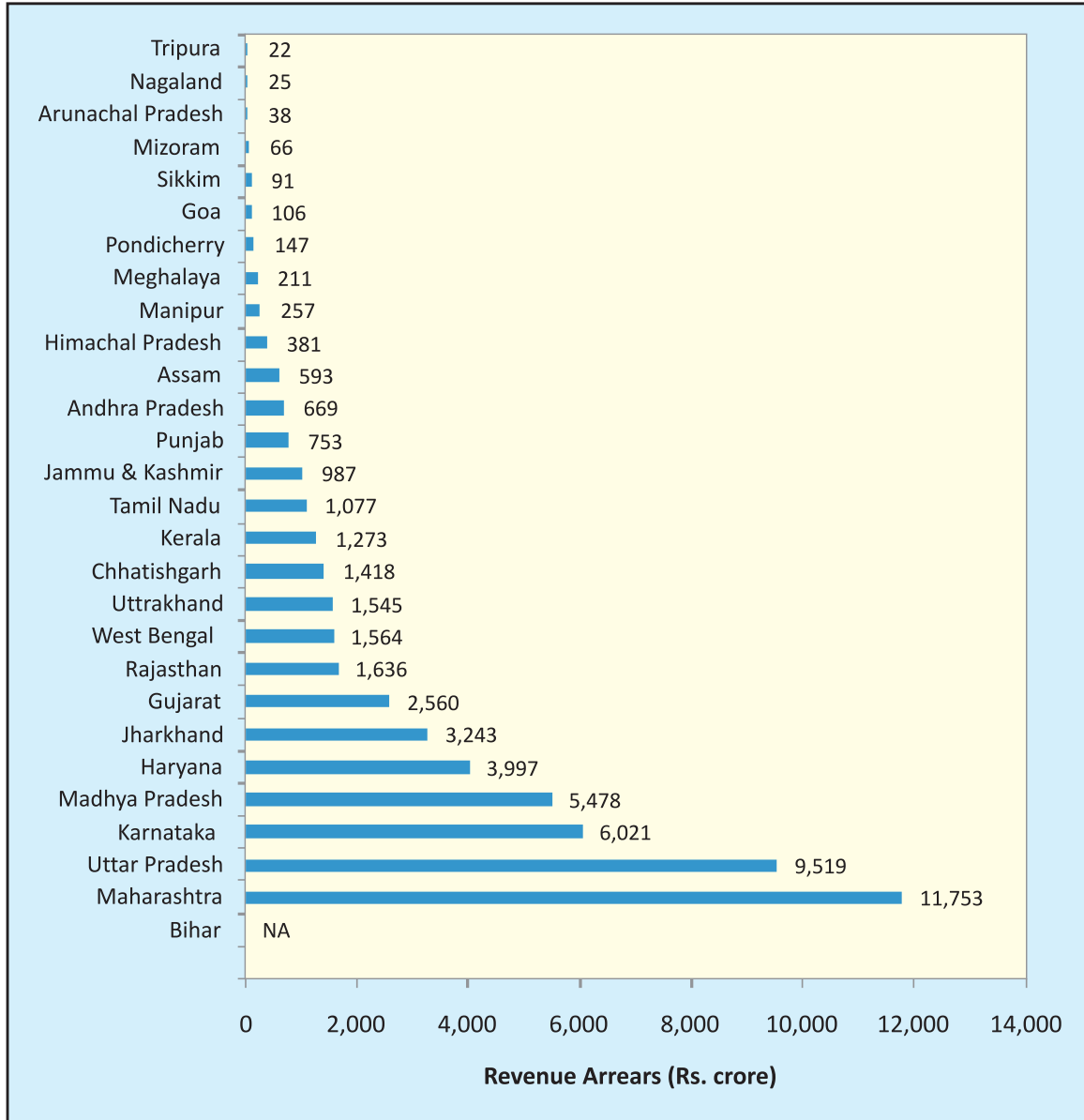
The revenue arrears outstanding of various State utilities have been increasing over the years. These arrears have increased from Rs.20,382 crore in 1998-99 to Rs.55,430 crore in 2009-10. The revenue arrears in last five years is shown in figure below (Figure 4.21).

Figure 4.21
Revenue Arrears (Rs. crore) from 2007-08 to 2011-12



The inter-state variations are given in Figure 4.22 for 2009-10.

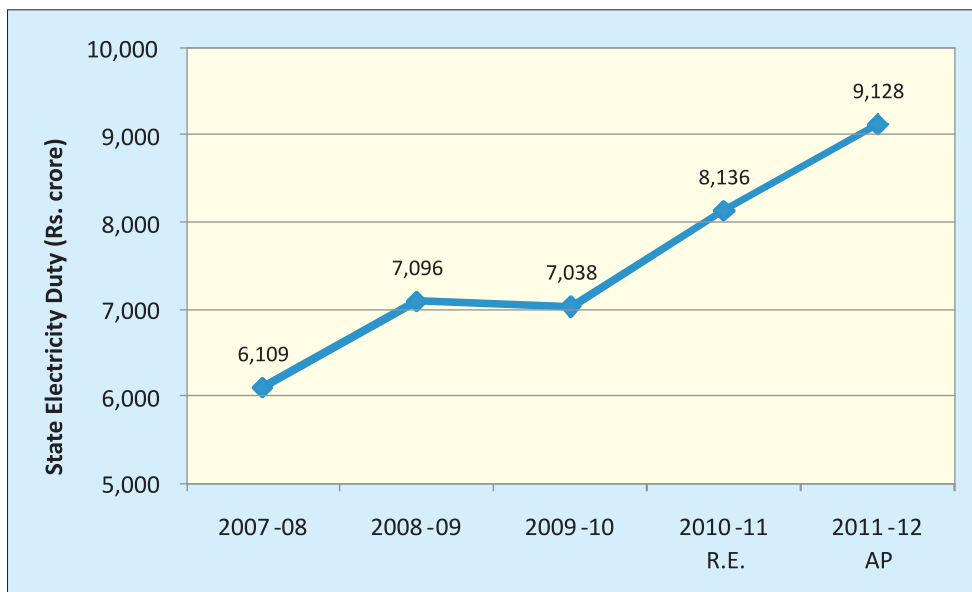
Figure 4.22
State-wise Revenue Arrears (Rs. crore) for 2009-10



4.11 STATE ELECTRICITY DUTY

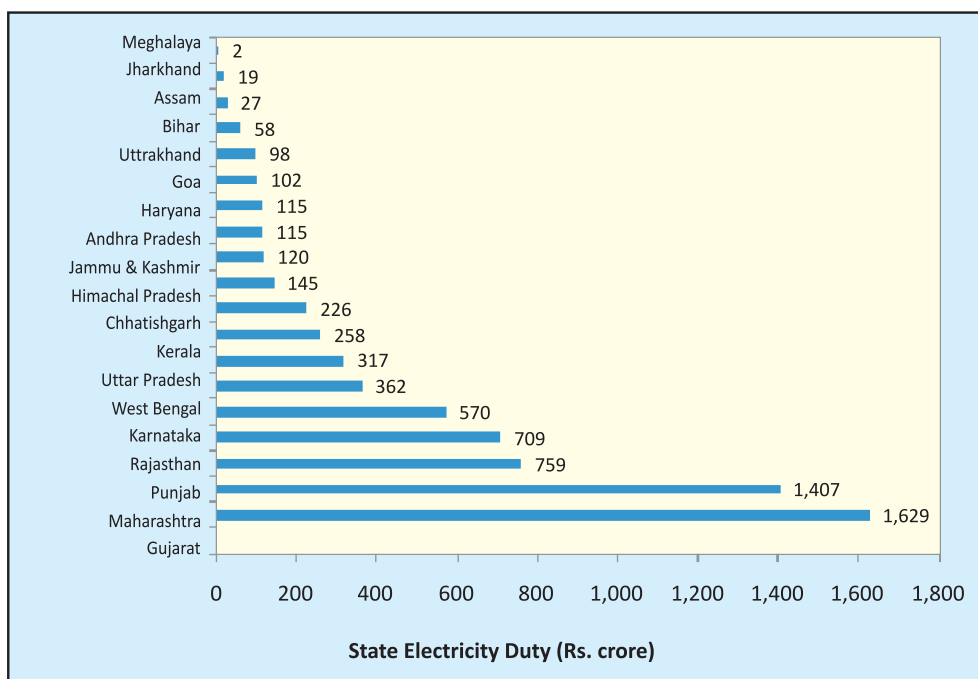
The State Electricity Duty (SED) constitutes an important source of revenue in some states. The SED is collected by the utilities and is generally passed on to the respective State Exchequers. The SED collection increased from Rs. 2,517 crore in 1998-99 to Rs. 7,038 crore in 2009-10. The SED in last five years is shown in figure below (Figure 4.23).

Figure 4.23
State Electricity Duty (Rs. crore) from 2007-08 to 2011-12



The State-wise SED for a few major states for 2009-10 is presented in figure below (Figure 4.24).

Figure 4.24
State Electricity Duty (Rs. crore) in different states for 2009-10



The average incidence of SED on the sale of electricity was around 14.1 paise/kWh in 2009-10, and is expected to be 14.8 paise/kWh in 2011-12 (AP).

Annexure 4.1

UNIT COST OF POWER SUPPLY

(Paise/Kwh)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's					
1. Andhra Pradesh	336.33	423.44	401.17	387.00	384.09
2. Assam	507.85	549.41	596.16	616.33	572.92
3. Bihar	666.36	691.86	720.54	721.88	775.01
4. Chhatisgarh	320.47	296.67	340.33	384.23	396.34
5. Delhi	462.08	449.07	513.99		
6. Gujarat	391.71	464.25	441.21	425.46	427.47
7. Haryana	463.03	543.14	578.46	533.64	527.42
8. Himachal Pradesh	381.85	421.59	451.03	472.82	487.84
9. Jammu & Kashmir	649.32	677.71	644.42	719.11	697.79
10. Jharkhand	630.53	651.34	662.37	532.95	569.63
11. Karnataka	376.29	417.53	408.78	462.76	459.92
12. Kerala	373.95	456.73	477.21	451.53	488.32
13. Madhya Pradesh	447.90	492.49	557.70	561.25	555.73
14. Maharashtra	410.44	450.04	466.23	462.01	479.58
15. Meghalaya	366.87	359.39	451.39	515.43	475.24
16. Orissa	321.41	366.18	329.90		
17. Punjab	406.03	405.44	414.45	499.82	523.96
18. Rajasthan	511.34	637.69	679.75	629.79	620.22
19. Tamil Nadu	397.88	478.89	493.75	511.65	513.94
20. Uttar Pradesh	409.66	438.80	506.45	501.31	476.08
21. Uttrakhand	296.50	362.67	394.96	414.13	455.17
22. West Bengal	352.94	490.79	443.49	471.63	483.78
Average of SPU's :	406.08	461.51	478.24	485.67	488.79
II. EDs					
1. Arunachal Pradesh	490.57	352.84	311.72	377.67	385.56
2. Goa	251.29	297.73	294.81	299.55	337.09
3. Manipur	585.53	783.81	705.66	833.10	842.25
4. Mizoram	455.34	614.86	863.99	927.41	868.57
5. Nagaland	569.12	516.30	621.62	668.94	653.29
6. Pondicherry	244.74	294.73	262.80	332.32	319.89
7. Sikkim	249.58	211.15	247.56	179.77	188.68
8. Tripura	327.10	349.87	390.61	437.60	469.70
Average of EDs	303.92	338.26	335.72	374.01	384.14
All India Average	404.42	459.58	476.04	483.87	487.15

Annexure 4.2

COST STRUCTURE OF SPUs, 2007-08 (Actual)

(Paise/Kwh of sale)

	Fuel	Power Purchase	O & M exp.	Estt/ Admn.	Misc. exp.	Depre- ciation	Interest	Total
I. SPUs								
1. Andhra Pradesh	0.00	268.51	3.94	24.46	12.84	13.06	13.51	336.33
2. Assam	35.70	257.25	11.43	116.52	16.45	33.33	37.18	507.85
3. Bihar	7.61	335.31	6.49	123.04	21.61	11.05	161.24	666.36
4. Chhatisgarh	61.78	144.06	16.37	69.64	0.00	11.48	17.16	320.47
5. Delhi	0.00	376.92	9.82	32.93	-1.84	21.32	22.99	462.14
6. Gujarat	0.00	299.25	12.18	44.44	0.00	19.89	15.95	391.71
7. Haryana	0.00	399.67	3.65	35.36	0.59	9.68	14.08	463.03
8. Himachal Pradesh	0.00	245.61	4.10	93.03	-3.52	14.13	28.50	381.85
9. Jammu & Kashmir	0.00	526.33	12.39	86.73	0.00	18.78	5.09	649.32
10. Jharkhand	48.81	377.00	13.65	63.40	0.00	10.17	117.51	630.53
11. Karnataka	0.00	300.96	3.67	36.17	12.42	5.35	17.73	376.29
12. Kerala	14.63	156.84	8.68	76.90	59.29	31.28	26.33	373.95
13. Madhya Pradesh	76.65	207.98	0.00	84.66	21.72	27.16	29.72	447.90
14. Maharashtra	0.00	305.23	43.70	34.27	10.99	9.69	6.56	410.44
15. Meghalaya	0.00	207.67	22.12	87.67	0.00	12.19	37.22	366.87
16. Orissa	0.00	227.93	5.20	48.32	19.70	9.01	10.96	321.13
17. Punjab	88.34	188.01	9.16	65.76	0.53	20.81	33.42	406.03
18. Rajasthan	0.00	411.81	3.81	34.38	6.07	11.99	43.28	511.34
19. Tamil Nadu	69.62	230.83	6.90	44.84	6.48	12.80	26.41	397.88
20. Uttar Pradesh	0.00	318.73	11.51	23.21	11.03	21.09	24.10	409.66
21. Uttrakhand	0.00	240.31	6.40	22.12	2.85	15.04	9.78	296.50
22. West Bengal	0.05	271.13	6.43	28.81	12.25	11.97	22.30	352.94
Average of SPUs	20.53	281.60	11.69	44.38	9.45	15.26	23.17	406.07
II. EDs								
1. Arunachal Pradesh	20.82	258.61	38.79	125.81	0.00	0.00	46.55	490.57
2. Goa	0.00	211.91	7.79	23.40	0.00	6.35	1.84	251.29
3. Manipur	3.90	336.09	12.75	122.28	0.00	92.55	17.97	585.53
4. Mizoram	0.45	275.23	44.57	89.47	8.97	0.00	36.64	455.34
5. Nagaland	0.29	286.48	54.93	104.89	1.21	61.98	59.35	569.12
6. Pondicherry	0.00	224.91	3.28	11.08	0.00	5.47	0.00	244.74
7. Sikkim	0.81	216.19	15.32	17.26	0.00	0.00	0.00	249.58
8. Tripura	60.89	134.35	22.67	75.48	0.00	33.71	0.00	327.10
Average of EDs	8.25	220.20	13.56	40.21	0.37	14.01	7.32	303.92
All India Average	20.33	280.60	11.72	44.31	9.30	15.24	22.91	404.42

Annexure 4.3

COST STRUCTURE OF SPUs, 2008-09 (Actual)

(Paise/Kwh of sale)

	Fuel	Power Purchase	O & M exp.	Estt/ Admn.	Misc. exp.	Depre- ciation	Interest	Total
I. SPUs								
1. Andhra Pradesh	0.00	353.63	4.31	23.79	8.33	14.48	18.89	423.44
2. Assam	47.21	217.91	11.74	167.81	10.50	42.38	51.86	549.41
3. Bihar	3.86	360.77	7.78	127.54	22.29	10.43	159.18	691.86
4. Chhatisgarh	45.48	144.61	12.02	58.70	0.00	17.55	18.31	296.67
5. Delhi	0.00	358.00	9.48	26.76	11.27	18.54	25.07	449.12
6. Gujarat	0.00	362.62	11.52	49.42	0.00	22.37	18.32	464.25
7. Haryana	0.00	423.87	3.48	57.98	22.54	8.84	26.42	543.14
8. Himachal Pradesh	0.00	280.76	4.00	95.15	3.00	13.93	24.75	421.59
9. Jammu & Kashmir	0.00	574.79	12.25	67.14	0.00	19.48	4.06	677.71
10. Jharkhand	34.81	411.06	11.62	65.76	0.00	10.39	117.70	651.34
11. Karnataka	0.00	350.19	3.25	34.76	6.73	6.28	16.32	417.53
12. Kerala	32.22	265.36	10.78	107.99	-19.76	33.76	26.37	456.73
13. Madhya Pradesh	89.22	218.49	0.00	95.98	32.97	32.91	22.93	492.49
14. Maharashtra	0.00	354.23	10.29	46.69	20.32	11.12	7.39	450.04
15. Meghalaya	0.00	192.47	22.20	99.49	0.00	13.48	31.74	359.39
16. Orissa	0.00	232.97	6.99	86.95	20.03	7.93	11.34	366.21
17. Punjab	97.10	161.97	10.41	69.95	0.87	21.48	43.65	405.44
18. Rajasthan	0.00	489.26	5.72	72.69	0.32	14.55	55.16	637.69
19. Tamil Nadu	88.63	272.92	8.19	54.32	2.48	14.53	37.81	478.89
20. Uttar Pradesh	0.00	339.91	11.63	30.85	10.18	17.92	28.32	438.80
21. Uttrakhand	0.00	304.93	7.06	19.29	2.89	15.59	12.90	362.67
22. West Bengal	0.03	295.12	6.30	129.35	19.48	14.69	25.81	490.79
Average of SPUs	23.05	321.53	7.90	56.46	8.84	16.34	27.38	461.51
II. EDs								
1. Arunachal Pradesh	6.16	173.82	51.13	91.01	0.00	0.00	30.72	352.84
2. Goa	0.00	247.70	8.34	32.45	0.00	6.99	2.26	297.73
3. Manipur	2.04	451.19	23.02	156.32	0.00	109.25	41.99	783.81
4. Mizoram	10.01	329.27	59.76	140.48	0.00	0.00	75.33	614.86
5. Nagaland	0.22	299.89	43.39	83.56	2.20	48.43	38.60	516.30
6. Pondicherry	0.00	268.29	2.84	17.35	0.00	6.25	0.00	294.73
7. Sikkim	0.63	179.23	14.32	16.97	0.00	0.00	0.00	211.15
8. Tripura	69.57	133.25	30.30	80.70	0.00	36.05	0.00	349.87
Average of EDs	8.71	241.89	16.85	47.26	0.10	14.55	8.91	338.26
All India Average	22.82	320.28	8.04	56.32	8.70	16.32	27.09	459.58

Annexure 4.4

COST STRUCTURE OF SPUs, 2009-10 (Actual)

(Paise/Kwh of sale)

	Fuel	Power Purchase	O & M exp.	Estt/ Admn.	Misc. exp.	Depre- ciation	Interest	Total
I. SPUs								
1. Andhra Pradesh	0.00	337.44	4.52	23.02	-0.43	15.05	21.57	401.17
2. Assam	58.08	260.53	17.34	152.92	11.21	46.57	49.51	596.16
3. Bihar	10.99	416.91	9.60	101.04	12.89	9.84	159.28	720.54
4. Chhatisgarh	0.00	267.58	6.88	52.49	0.00	7.95	5.42	340.33
5. Delhi	0.00	412.80	8.47	39.33	13.68	15.08	24.62	513.99
6. Gujarat	0.00	328.27	11.50	54.08	0.00	29.72	17.64	441.21
7. Haryana	0.00	454.43	3.72	76.92	3.17	6.57	33.65	578.46
8. Himachal Pradesh	0.00	305.93	4.29	109.60	-8.48	14.87	24.82	451.03
9. Jammu & Kashmir	3.78	516.03	10.66	88.45	0.00	21.58	3.91	644.42
10. Jharkhand	30.62	440.00	11.09	64.13	0.00	9.69	106.83	662.37
11. Karnataka	0.00	328.61	3.20	38.59	5.71	10.33	22.34	408.78
12. Kerala	25.94	240.93	12.33	115.21	31.92	32.12	18.76	477.21
13. Madhya Pradesh	96.59	198.92	0.00	132.66	63.46	42.33	23.73	557.70
14. Maharashtra	0.00	372.87	9.32	33.48	30.40	12.70	7.45	466.23
15. Meghalaya	0.00	227.44	26.46	124.31	0.00	26.50	46.69	451.39
16. Orissa	0.00	228.66	7.44	48.25	24.86	8.34	12.35	329.90
17. Punjab	111.70	144.30	11.79	78.89	0.37	24.65	42.76	414.45
18. Rajasthan	0.00	521.65	5.63	56.62	4.61	14.80	76.44	679.75
19. Tamil Nadu	75.52	288.40	6.42	56.94	4.64	14.23	47.60	493.75
20. Uttar Pradesh	0.00	401.39	11.98	32.67	8.42	15.51	36.47	506.45
21. Uttrakhand	0.00	330.20	7.87	26.84	2.77	14.95	12.34	394.96
22. West Bengal	0.04	341.87	6.25	45.81	12.37	14.09	23.06	443.49
Average of SPUs	20.99	336.31	7.59	54.36	10.98	17.29	30.71	478.24
II. EDs								
1. Arunachal Pradesh	4.20	143.72	51.55	85.84	0.00	0.00	26.40	311.72
2. Goa	0.00	229.13	12.96	43.01	0.00	6.53	3.18	294.81
3. Manipur	3.79	369.47	24.82	163.19	0.00	108.98	35.42	705.66
4. Mizoram	14.32	343.14	56.73	227.20	0.00	0.00	222.58	863.99
5. Nagaland	0.25	357.15	49.85	104.53	2.61	51.70	55.54	621.62
6. Pondicherry	0.00	231.09	2.92	19.68	0.00	9.10	0.00	262.80
7. Sikkim	0.66	200.27	16.16	30.47	0.00	0.00	0.00	247.56
8. Tripura	85.71	128.37	31.02	104.97	0.00	40.55	0.00	390.61
Average of EDs	9.34	223.82	18.29	56.57	0.10	14.74	12.85	335.72
All India Average	20.81	334.57	7.76	54.40	10.81	17.25	30.43	476.04

Annexure 4.5

COST STRUCTURE OF SPUs, 2010-11 (R.E)

(Paise/Kwh of sale)

	Fuel	Power Purchase	O & M exp.	Estt/ Admn.	Misc. exp.	Depre- ciation	Interest	Total
I. SPUs								
1. Andhra Pradesh	0.00	330.27	3.57	24.12	5.02	13.24	10.78	387.00
2. Assam	77.92	276.90	24.70	147.02	10.23	38.82	40.74	616.33
3. Bihar	11.08	415.17	17.71	110.45	14.81	9.91	142.75	721.88
4. Chhatisgarh	0.00	303.55	7.03	55.92	0.00	7.68	10.04	384.23
5. Gujarat	0.00	310.19	12.09	50.50	0.00	32.10	20.58	425.46
6. Haryana	0.00	430.77	5.39	49.73	0.06	6.36	41.34	533.64
7. Himachal Pradesh	0.00	282.96	5.95	142.30	0.00	14.88	26.73	472.82
8. Jammu & Kashmir	0.11	582.30	11.20	102.72	0.00	20.20	2.58	719.11
9. Jharkhand	16.42	372.29	9.34	59.95	0.00	9.58	65.38	532.95
10. Karnataka	0.00	373.33	3.98	43.46	5.66	13.19	23.16	462.76
11. Kerala	21.79	252.07	12.32	117.20	-7.53	34.48	21.20	451.53
12. Madhya Pradesh	92.35	219.93	0.00	125.21	40.15	47.81	35.80	561.25
13. Maharashtra	0.00	376.28	10.00	35.92	14.51	13.40	11.90	462.01
14. Meghalaya	0.00	271.55	27.21	152.41	0.00	27.00	37.27	515.43
15. Punjab	103.07	200.87	10.83	106.78	0.93	24.00	53.34	499.82
16. Rajasthan	0.00	450.75	5.42	54.08	3.05	16.30	100.19	629.79
17. Tamil Nadu	77.12	296.41	6.00	58.79	0.37	14.75	58.23	511.65
18. Uttar Pradesh	0.00	392.35	11.49	30.73	5.10	14.23	47.41	501.31
19. Uttrakhand	0.00	349.37	6.71	29.92	3.13	11.86	13.14	414.13
20. West Bengal	0.05	357.94	6.14	53.31	13.44	14.64	26.10	471.63
Average of SPUs	21.20	339.79	7.67	56.65	6.17	17.97	36.22	485.67
II. EDs								
1. Arunachal Pradesh	3.68	146.24	52.52	151.10	0.00	0.00	24.13	377.67
2. Goa	0.00	239.84	11.91	37.81	0.00	6.54	3.45	299.55
3. Manipur	7.37	432.23	22.11	235.82	0.00	101.64	33.93	833.10
4. Mizoram	17.17	404.24	60.33	265.20	0.00	0.00	180.46	927.41
5. Nagaland	0.23	358.68	46.59	164.42	1.21	47.38	50.44	668.94
6. Pondicherry	0.00	298.09	3.19	22.02	0.00	9.02	0.00	332.32
7. Sikkim	0.77	127.30	18.52	33.18	0.00	0.00	0.00	179.77
8. Tripura	151.42	127.29	30.55	93.72	0.00	34.62	0.00	437.60
Average of EDs	17.94	244.43	18.40	67.27	0.05	14.44	11.49	374.01
All India Average	21.15	338.25	7.84	56.82	6.07	17.91	35.82	483.87

Annexure 4.6

COST STRUCTURE OF SPUs, 2011-12 (A.P)

(Paise/Kwh of sale)

	Fuel	Power Purchase	O & M exp.	Estt/ Admn.	Misc. exp.	Depre- ciation	Interest	Total
I. SPUs								
1. Andhra Pradesh	0.00	328.05	3.48	23.52	5.06	14.23	9.74	384.09
2. Assam	67.52	247.65	23.14	130.52	13.66	48.86	41.58	572.92
3. Bihar	14.62	431.36	19.92	115.36	15.34	10.94	167.49	775.01
4. Chhatisgarh	0.00	317.30	6.63	52.71	0.00	9.05	10.66	396.34
5. Gujarat	0.00	310.42	11.92	51.02	0.00	33.88	20.24	427.47
6. Haryana	0.00	411.02	6.21	45.21	2.39	9.62	52.95	527.40
7. Himachal Pradesh	0.00	293.16	6.01	149.99	0.00	14.87	23.80	487.84
8. Jammu & Kashmir	0.11	560.69	11.93	99.44	0.00	22.81	2.82	697.79
9. Jharkhand	47.65	380.80	9.43	57.58	0.00	9.30	64.87	569.63
10. Karnataka	0.00	368.73	3.97	43.22	5.35	13.78	24.89	459.92
11. Kerala	32.43	254.81	12.77	135.51	-6.77	36.40	23.17	488.32
12. Madhya Pradesh	102.35	197.81	0.00	126.68	41.14	45.97	41.77	555.73
13. Maharashtra	0.00	397.89	8.93	32.06	12.95	12.73	15.02	479.58
14. Meghalaya	0.00	227.29	25.18	135.46	0.00	34.46	52.84	475.24
15. Punjab	112.44	211.77	11.47	102.19	1.19	24.66	60.24	523.96
16. Rajasthan	0.00	435.50	5.24	51.60	2.80	16.94	108.14	620.22
17. Tamil Nadu	96.41	274.70	5.70	57.59	0.36	14.43	64.76	513.94
18. Uttar Pradesh	0.00	371.25	10.24	32.74	4.41	14.50	42.94	476.08
19. Uttrakhand	0.00	387.34	6.88	31.17	3.22	13.06	13.50	455.17
20. West Bengal	0.05	365.14	6.07	58.91	13.40	14.47	25.75	483.78
Average of SPUs	24.15	338.52	7.47	55.24	6.21	18.36	38.84	488.79
II. EDs								
1. Arunachal Pradesh	3.07	161.07	54.23	142.67	0.00	0.00	24.53	385.56
2. Goa	0.00	277.39	12.26	38.15	0.00	6.26	3.02	337.09
3. Manipur	11.40	451.73	21.82	231.85	0.00	94.05	31.39	842.25
4. Mizoram	15.81	390.81	63.88	256.86	0.00	0.00	141.21	868.57
5. Nagaland	0.22	345.22	46.68	165.86	1.16	45.60	48.55	653.29
6. Pondicherry	0.00	287.33	3.73	20.08	0.00	8.75	0.00	319.89
7. Sikkim	0.93	137.80	19.46	30.49	0.00	0.00	0.00	188.68
8. Tripura	171.64	126.26	34.53	98.70	0.00	38.57	0.00	469.70
Average of EDs	19.31	255.79	19.30	65.63	0.04	14.03	10.04	384.14
All India Average	24.07	337.23	7.66	55.40	6.11	18.29	38.39	487.15

Annexure 4.7

FUEL CONSUMPTION BY COAL BASED THERMAL UNITS

Coal (Kg/Kwh of generation)

		2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPUs						
1	Andhra Pradesh	0.73	0.75	0.74	0.74	0.73
2	Assam	0.00	1.00	2.00	3.00	4.00
3	Bihar	0.00	0.00	0.00	0.00	0.00
4	Chhatisgarh	0.80	0.78	0.79	0.78	0.78
5	Gujarat	0.81	0.80	0.79	0.81	0.80
6	Haryana	0.74	0.71	0.71	0.66	0.69
7	Himachal Pradesh	0.00	0.00	0.00	0.00	0.00
8	Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00
9	Jharkhand	0.00	0.00	0.00	0.00	0.00
10	Karnataka	0.66	0.63	0.66	0.68	0.66
11	Kerala	0.00	0.00	0.00	0.00	0.00
12	Madhya Pradesh	0.82	0.84	0.83	0.83	0.81
13	Maharashtra	0.78	0.83	0.82	0.82	0.80
14	Meghalaya	0.00	0.00	0.00	0.00	0.00
15	Punjab	0.66	0.62	0.61	0.66	0.66
16	Rajasthan	0.65	0.67	0.70	0.68	0.67
17	Tamil Nadu	0.69	0.65	0.67	0.71	0.69
18	Uttar Pradesh	0.80	0.82	0.81	0.82	0.81
19	Uttarakhand	0.00	0.00	0.00	0.00	0.00
20	West Bengal	0.71	0.75	0.73	0.71	0.70
	Sub-Total-I (SPUs)	0.74	0.74	0.74	0.74	0.73

SECONDARY OIL CONSUMPTION IN COAL BASED THERMAL UNITS

Coal (Kg/Kwh of generation)		Oil (ml/Kwh of generation)				
		2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPUs						
1	Andhra Pradesh	0.61	0.81	1.16	0.89	0.89
2	Assam	0.00	0.00	0.00	0.00	0.00
3	Bihar	31.19	18.37	23.83	20.00	15.00
4	Chhatisgarh	2.41	1.41	1.06	1.29	1.27
5	Gujarat	1.95	2.40	1.77	1.89	1.89
6	Haryana	1.66	2.87	1.61	1.28	1.18
7	Himachal Pradesh	0.00	0.00	0.00	0.00	0.00
8	Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00
9	Jharkhand	1.40	1.80	1.40	1.40	1.40
10	Karnataka	0.91	2.30	1.49	2.58	2.44
11	Kerala	0.00	0.00	0.00	0.00	0.00
12	Madhya Pradesh	2.84	2.26	2.70	4.34	2.00
13	Maharashtra	1.90	4.12	3.54	5.65	3.20
14	Meghalaya	0.00	0.00	0.00	0.00	0.00
15	Punjab	1.01	0.21	0.75	1.05	1.55
16	Rajasthan	1.31	1.32	1.84	1.07	0.97
17	Tamil Nadu	0.00	0.00	0.00	0.00	0.00
18	Uttar Pradesh	2.98	3.27	3.10	3.82	2.58
19	Uttarakhand	0.00	0.00	0.00	0.00	0.00
20	West Bengal	1.79	3.21	3.60	2.13	2.30
	Sub-Total-I(SPUs)	1.61	2.17	2.09	2.38	1.82

Annexure 4.9

COST OF COAL PER UNIT OF GENERATION

(Paise/Kwh)

		2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPUs						
1	Andhra Pradesh	99.81	138.04	131.60	141.96	148.37
2	Assam	NA	NA	NA	NA	NA
3	Bihar	184.86	141.30	191.15	200.63	232.32
4	Chhatisgarh	52.76	64.65	65.22	65.58	65.43
5	Gujarat	174.41	191.42	206.73	216.35	224.39
6	Haryana	183.96	183.87	223.06	168.85	172.72
7	Himachal Pradesh	NA	NA	NA	NA	NA
8	Jammu & Kashmir	NA	NA	NA	NA	NA
9	Jharkhand	100.80	110.44	106.32	117.21	118.20
10	Karnataka	157.86	202.18	188.66	210.24	193.15
11	Kerala	0.00	0.00	0.00	0.00	0.00
12	Madhya Pradesh	114.47	120.17	134.78	133.47	142.70
13	Maharashtra	128.35	145.91	170.50	172.87	180.36
14	Meghalaya	NA	NA	NA	NA	NA
15	Punjab	157.23	167.35	176.53	188.27	207.24
16	Rajasthan	149.73	184.03	189.48	194.86	197.57
17	Tamil Nadu	147.46	173.62	174.18	209.98	222.95
18	Uttar Pradesh	109.49	121.46	137.07	142.54	165.10
19	Uttrakhand	NA	NA	NA	NA	NA
20	West Bengal	114.58	134.85	161.80	168.95	173.36
	Sub-Total-I(SPUs)	132.44	151.53	163.89	169.80	177.31

Annexure 4.10

COST OF OIL PER UNIT OF GENERATION

(Paise/Kwh)

		2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPUs						
1	Andhra Pradesh	1.44	2.83	3.97	3.10	3.04
2	Assam	NA	NA	NA	NA	NA
3	Bihar	93.41	58.60	60.67	66.00	56.11
4	Chhatisgarh	5.86	5.67	3.56	4.34	4.26
5	Gujarat	4.29	7.65	4.92	5.56	5.83
6	Haryana	3.94	9.95	4.42	3.13	2.83
7	Himachal Pradesh	NA	NA	NA	NA	NA
8	Jammu & Kashmir	NA	NA	NA	NA	NA
9	Jharkhand	26.08	36.95	31.69	34.95	36.69
10	Karnataka	2.71	8.13	5.30	9.10	8.31
11	Kerala	0.00	0.00	0.00	0.00	0.00
12	Madhya Pradesh	6.70	5.96	9.74	15.62	7.93
13	Maharashtra	4.52	12.81	9.53	16.34	9.58
14	Meghalaya	NA	NA	NA	NA	NA
15	Punjab	2.33	7.23	1.93	3.40	5.87
16	Rajasthan	3.43	2.57	4.92	3.02	3.11
17	Tamil Nadu	0.00	0.00	0.00	0.00	0.00
18	Uttar Pradesh	8.93	11.51	9.98	12.85	9.30
19	Uttrakhand	NA	NA	NA	NA	NA
20	West Bengal	5.06	12.71	13.83	8.55	9.51
	Sub-Total-I(SPUs)	5.96	9.37	8.02	8.82	7.83

Annexure 4.11

TOTAL COST OF PURCHASE OF POWER

(Rs.crore)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's					
1. Andhra Pradesh	13249.86	19034.37	20234.43	21720.13	24286.21
2. Assam	875.18	737.11	842.08	1068.83	1170.52
3. Bihar	1626.76	1920.98	2529.46	2996.90	3233.91
4. Chhatisgarh	1576.94	2177.49	3563.54	4156.25	4838.21
5. Delhi	6754.00	6797.00	8869.00		
6. Gujarat	7144.00	9636.00	8961.00	8541.00	9018.00
7. Haryana	5309.99	5810.08	7099.62	8593.04	9504.87
8. Himachal Pradesh	1529.49	1953.77	2171.60	2208.06	2438.24
9. Jammu & Kashmir	1753.53	2034.00	1977.96	2532.43	2584.75
10. Jharkhand	1614.13	1914.73	2333.20	2416.00	2802.00
11. Karnataka	9025.26	11285.14	11110.43	13803.77	15161.74
12. Kerala	2101.07	3417.23	3384.52	3586.00	3850.00
13. Madhya Pradesh	4498.32	4721.62	4523.80	5541.00	5425.00
14. Maharashtra	17006.39	20606.30	23841.95	26912.14	35073.38
15. Meghalaya	219.74	201.64	222.63	286.94	299.62
16. Orissa	2453.00	2733.00	2796.00		
17. Punjab	6039.07	5284.69	4718.06	6715.36	7658.74
18. Rajasthan	9742.57	13034.49	15956.94	15734.29	17181.95
19. Tamil Nadu	12195.09	14482.42	16662.34	18614.36	18516.13
20. Uttar Pradesh	11824.00	13684.00	16588.00	17758.00	20367.00
21. Uttrakhand	1138.14	1675.23	2063.48	2416.16	2979.71
22. West Bengal	4307.42	5187.50	6727.06	7479.13	8103.71
Sub-total I	121983.94	148328.79	167177.10	173079.80	194493.68
II. EDs					
1. Arunachal Pradesh	100.00	96.20	92.00	103.02	124.75
2. Goa	554.21	634.00	659.20	723.00	917.00
3. Manipur	112.58	136.08	107.64	146.63	165.61
4. Mizoram	76.69	86.28	78.81	100.40	105.42
5. Nagaland	78.44	108.85	116.27	127.42	127.42
6. Pondicherry	506.94	570.56	536.04	748.52	782.04
7. Sikkim	120.12	131.58	145.91	87.71	109.55
8. Tripura	115.57	115.78	103.46	125.00	128.00
Sub-total II	1664.55	1879.33	1839.33	2161.70	2459.79
Total (I+II)	123648.49	150208.12	169016.43	175241.49	196953.47

RATE OF PURCHASE OF POWER

(Paise/Kwh)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's					
1. Andhra Pradesh	214.04	285.69	276.33	277.22	277.93
2. Assam	269.31	229.84	255.51	281.70	253.40
3. Bihar	207.31	226.23	263.21	267.58	288.74
4. Chhatisgarh	244.52	249.34	164.00	198.25	213.59
5. Delhi	272.90	277.76	346.96		
6. Gujarat	262.41	323.81	266.77	253.65	248.11
7. Haryana	209.22	218.56	225.19	229.80	248.39
8. Himachal Pradesh	281.50	323.07	328.22	304.33	314.09
9. Jammu & Kashmir	222.72	271.61	239.19	295.55	294.94
10. Jharkhand	242.15	273.38	312.76	265.23	273.23
11. Karnataka	224.86	268.52	258.35	298.29	296.59
12. Kerala	260.21	354.89	331.82	348.98	355.95
13. Madhya Pradesh	215.62	248.70	227.57	251.48	257.24
14. Maharashtra	216.38	260.44	278.94	291.66	312.08
15. Meghalaya	237.78	208.11	235.02	291.94	275.50
16. Orissa	142.51	145.54	143.21		
17. Punjab	355.79	355.86	317.96	432.67	431.06
18. Rajasthan	265.55	333.23	365.46	326.25	327.46
19. Tamil Nadu	324.57	381.29	370.05	364.29	365.75
20. Uttar Pradesh	214.97	242.73	271.76	279.12	280.85
21. Uttrakhand	165.11	215.48	248.24	267.21	307.82
22. West Bengal	207.48	226.81	258.53	272.49	283.73
Average of SPU's	236.19	276.27	279.18	289.86	296.77
II. EDs					
1. Arunachal Pradesh	158.80	98.06	95.83	103.64	119.49
2. Goa	176.61	195.80	191.07	198.16	228.62
3. Manipur	173.95	220.93	201.43	261.23	282.82
4. Mizoram	217.50	228.13	227.02	285.54	279.08
5. Nagaland	219.98	241.56	264.85	290.25	290.25
6. Pondicherry	193.93	231.66	199.86	257.76	248.57
7. Sikkim	192.39	164.00	173.94	109.36	121.72
8. Tripura	225.94	233.76	245.39	256.69	265.56
Average of EDs	187.58	199.41	190.15	212.19	223.91
All India Average	235.37	274.95	277.76	288.56	295.57

Annexure 4.13

SHARE OF O&M IN TOTAL COST

(%)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU s					
1. Andhra Pradesh	1.17	1.02	1.13	0.92	0.91
2. Assam	2.25	2.14	2.91	4.01	4.04
3. Bihar	0.97	1.12	1.33	2.45	2.57
4. Chhatisgarh	5.11	4.05	2.02	1.83	1.67
5. Delhi	2.13	2.11	1.65		
6. Gujarat	3.11	2.48	2.61	2.84	2.79
7. Haryana	0.79	0.64	0.64	1.01	1.18
8. Himachal Pradesh	1.07	0.95	0.95	1.26	1.23
9. Jammu & Kashmir	1.91	1.81	1.65	1.56	1.71
10. Jharkhand	2.16	1.78	1.68	1.75	1.66
11. Karnataka	0.98	0.78	0.78	0.86	0.86
12. Kerala	2.32	2.36	2.58	2.73	2.62
13. Madhya Pradesh	0.00	0.00	0.00	0.00	0.00
14. Maharashtra	10.65	2.29	2.00	2.17	1.86
15. Meghalaya	6.03	6.18	5.86	5.28	5.30
16. Orissa	1.62	1.91	2.26		
17. Punjab	2.26	2.57	2.84	2.17	2.19
18. Rajasthan	0.74	0.90	0.83	0.86	0.84
19. Tamil Nadu	1.73	1.71	1.30	1.17	1.11
20. Uttar Pradesh	2.81	2.65	2.37	2.29	2.15
21. Uttrakhand	2.16	1.95	1.99	1.62	1.51
22. West Bengal	1.82	1.28	1.41	1.30	1.25
Average of SPU s	2.88	1.71	1.59	1.58	1.53
II. EDs					
1. Arunachal Pradesh	7.91	14.49	16.54	13.91	14.06
2. Goa	3.10	2.80	4.40	3.98	3.64
3. Manipur	2.18	2.94	3.52	2.65	2.59
4. Mizoram	9.79	9.72	6.57	6.51	7.36
5. Nagaland	9.65	8.40	8.02	6.96	7.15
6. Pondicherry	1.34	0.97	1.11	0.96	1.17
7. Sikkim	6.14	6.78	6.53	10.30	10.31
8. Tripura	6.93	8.66	7.94	6.98	7.35
Average of EDs	4.46	4.98	5.45	4.92	5.02
All India Average	2.90	1.75	1.63	1.62	1.57

SHARE OF ESTT/ADMN IN TOTAL COST

(%)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU					
1. Andhra Pradesh	7.27	5.62	5.74	6.23	6.12
2. Assam	22.94	30.54	25.65	23.85	22.78
3. Bihar	18.47	18.43	14.02	15.30	14.88
4. Chhatisgarh	21.73	19.79	15.42	14.55	13.30
5. Delhi	7.13	5.96	7.65		
6. Gujarat	11.35	10.65	12.26	11.87	11.93
7. Haryana	7.64	10.68	13.30	9.32	8.57
8. Himachal Pradesh	24.36	22.57	24.30	30.10	30.75
9. Jammu & Kashmir	13.36	9.91	13.73	14.28	14.25
10. Jharkhand	10.05	10.10	9.68	11.25	10.11
11. Karnataka	9.61	8.32	9.44	9.39	9.40
12. Kerala	20.56	23.64	24.14	25.96	27.75
13. Madhya Pradesh	18.90	19.49	23.79	22.31	22.79
14. Maharashtra	8.35	10.37	7.18	7.77	6.68
15. Meghalaya	23.90	27.68	27.54	29.57	28.50
16. Orissa	15.03	23.74	14.63		
17. Punjab	16.20	17.25	19.04	21.36	19.50
18. Rajasthan	6.72	11.40	8.33	8.59	8.32
19. Tamil Nadu	11.27	11.34	11.53	11.49	11.21
20. Uttar Pradesh	5.67	7.03	6.45	6.13	6.88
21. Uttrakhand	7.46	5.32	6.79	7.22	6.85
22. West Bengal	8.16	26.36	10.33	11.30	12.18
Average of SPU	10.93	12.23	11.37	11.66	11.30
II. EDs					
1. Arunachal Pradesh	25.65	25.79	27.54	40.01	37.00
2. Goa	9.31	10.90	14.59	12.62	11.32
3. Manipur	20.88	19.94	23.13	28.31	27.53
4. Mizoram	19.65	22.85	26.30	28.60	29.57
5. Nagaland	18.43	16.18	16.82	24.58	25.39
6. Pondicherry	4.53	5.89	7.49	6.63	6.28
7. Sikkim	6.92	8.04	12.31	18.46	16.16
8. Tripura	23.08	23.07	26.87	21.42	21.01
Average of EDs	13.23	13.97	16.85	17.98	17.08
All India Average	10.96	12.25	11.43	11.74	11.37

Annexure 4.15

SHARE OF DEPRECIATION IN TOTAL COST

(%)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU s					
1. Andhra Pradesh	3.88	3.42	3.75	3.42	3.71
2. Assam	6.56	7.71	7.81	6.30	8.53
3. Bihar	1.66	1.51	1.37	1.37	1.41
4. Chhatisgarh	3.58	5.91	2.34	2.00	2.28
5. Delhi	4.61	4.13	2.93		
6. Gujarat	5.08	4.82	6.74	7.55	7.93
7. Haryana	2.09	1.63	1.14	1.19	1.82
8. Himachal Pradesh	3.70	3.30	3.30	3.15	3.05
9. Jammu & Kashmir	2.89	2.87	3.35	2.81	3.27
10. Jharkhand	1.61	1.60	1.46	1.80	1.63
11. Karnataka	1.42	1.50	2.53	2.85	3.00
12. Kerala	8.37	7.39	6.73	7.64	7.45
13. Madhya Pradesh	6.06	6.68	7.59	8.52	8.27
14. Maharashtra	2.36	2.47	2.72	2.90	2.65
15. Meghalaya	3.32	3.75	5.87	5.24	7.25
16. Orissa	2.80	2.16	2.53		
17. Punjab	5.13	5.30	5.95	4.80	4.71
18. Rajasthan	2.35	2.28	2.18	2.59	2.73
19. Tamil Nadu	3.22	3.04	2.88	2.88	2.81
20. Uttar Pradesh	5.15	4.08	3.06	2.84	3.04
21. Uttrakhand	5.07	4.30	3.78	2.86	2.87
22. West Bengal	3.39	2.99	3.18	3.10	2.99
Average of SPU s	3.76	3.54	3.61	3.70	3.76
II. ED s					
1. Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00
2. Goa	2.53	2.35	2.22	2.18	1.86
3. Manipur	15.81	13.94	15.44	12.20	11.17
4. Mizoram	0.00	0.00	0.00	0.00	0.00
5. Nagaland	10.89	9.38	8.32	7.08	6.98
6. Pondicherry	2.24	2.12	3.46	2.72	2.74
7. Sikkim	0.00	0.00	0.00	0.00	0.00
8. Tripura	10.31	10.30	10.38	7.91	8.21
Average of ED s	4.61	4.30	4.39	3.86	3.65
All India Average	3.77	3.55	3.62	3.70	3.75

SHARE OF INTEREST IN TOTAL COST

(%)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's					
1. Andhra Pradesh	4.02	4.46	5.38	2.78	2.54
2. Assam	7.32	9.44	8.30	6.61	7.26
3. Bihar	24.20	23.01	22.11	19.78	21.61
4. Chhatisgarh	5.35	6.17	1.59	2.61	2.69
5. Delhi	4.98	5.58	4.79		
6. Gujarat	4.07	3.95	4.00	4.84	4.73
7. Haryana	3.04	4.86	5.82	7.75	10.04
8. Himachal Pradesh	7.46	5.87	5.50	5.65	4.88
9. Jammu & Kashmir	0.78	0.60	0.61	0.36	0.40
10. Jharkhand	18.64	18.07	16.13	12.27	11.39
11. Karnataka	4.71	3.91	5.46	5.00	5.41
12. Kerala	7.04	5.77	3.93	4.69	4.74
13. Madhya Pradesh	6.64	4.66	4.26	6.38	7.52
14. Maharashtra	1.60	1.64	1.60	2.58	3.13
15. Meghalaya	10.14	8.83	10.34	7.23	11.12
16. Orissa	3.41	3.10	3.74		
17. Punjab	8.23	10.77	10.32	10.67	11.50
18. Rajasthan	8.46	8.65	11.25	15.91	17.44
19. Tamil Nadu	6.64	7.90	9.64	11.38	12.60
20. Uttar Pradesh	5.88	6.45	7.20	9.46	9.02
21. Uttrakhand	3.30	3.56	3.12	3.17	2.97
22. West Bengal	6.32	5.26	5.20	5.53	5.32
Average of SPU's	5.70	5.93	6.42	7.46	7.95
II. EDs					
1. Arunachal Pradesh	9.49	8.71	8.47	6.39	6.36
2. Goa	0.73	0.76	1.08	1.15	0.90
3. Manipur	3.07	5.36	5.02	4.07	3.73
4. Mizoram	8.05	12.25	25.76	19.46	16.26
5. Nagaland	10.43	7.48	8.93	7.54	7.43
6. Pondicherry	0.00	0.00	0.00	0.00	0.00
7. Sikkim	0.00	0.00	0.00	0.00	0.00
8. Tripura	0.00	0.00	0.00	0.00	0.00
Average of EDs	2.41	2.63	3.83	3.07	2.61
All India Average	5.66	5.90	6.39	7.40	7.88

Annexure 4.17

NUMBER OF CONSUMERS (IN LAKHS)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's					
1. Andhra Pradesh	185	203	215	231	250
2. Assam	15	19	21	23	30
3. Bihar	28	30	32	35	35
4. Chhatishgarh	26	28	30	32	35
5. Gujarat	94	101	112	118	124
6. Haryana	43	44	46	47	49
7. Himachal Pradesh	18	19	19	20	20
8. Jammu & Kashmir	12	12	12	13	13
9. Jharkhand	14	16	17	22	27
10. Karnataka	151	161	168	181	188
11. Kerala	90	94	97	99	102
12. Madhya Pradesh	72	77	86	91	111
13. Maharashtra	157	168	179	194	195
14. Meghalaya	3	3	3	3	3
15. Punjab	64	66	69	73	76
16. Rajasthan	71	78	85	92	97
17. Tamil Nadu	189	206	216	222	229
18. Uttar Pradesh	96	99	115	127	133
19. Uttrakhand	12	13	14	15	17
20. West Bengal	70	75	76	91	110
Sub-total I	1412	1512	1613	1729	1845
II. EDs					
1. Arunachal Pradesh	1	2	2	3	3
2. Goa	5	5	5	5	6
3. Manipur	2	2	2	3	3
4. Mizoram	1	2	2	2	2
5. Nagaland	2	2	2	2	2
6. Pondicherry	3	3	3	3	3
7. Sikkim	1	1	1	1	1
8. Tripura	4	4	4	5	5
Sub-total II	19	20	21	23	24
Total	1431	1532	1635	1752	1869

NUMBER OF EMPLOYEES

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's					
1. Andhra Pradesh	44321	43228	42288	42288	42288
2. Assam	15744	15670	14780	13020	12140
3. Bihar	12650	12650	12650	11506	11506
4. Chhatisgarh	16212	17670	17670	11108	11085
5. Gujarat	47032	50094	51128	52886	53441
6. Haryana	28992	26807	27526	28647	29306
7. Himachal Pradesh	19000	19000	19000	19000	19000
8. Jammu & Kashmir	27304	24862	17673	18173	18673
9. Jharkhand	6897	7000	6500	5800	5800
10. Karnataka	30229	31472	32279	33452	33820
11. Kerala	25814	27089	28256	28750	28900
12. Madhya Pradesh	52819	51368	47947	48880	47496
13. Maharashtra	63609	63609	86704	86704	86961
14. Meghalaya	3677	3665	3639	3587	3590
15. Punjab	66313	64077	64308	64308	64308
16. Rajasthan	41068	40793	39922	41160	42753
17. Tamil Nadu	75305	76465	81582	77305	78255
18. Uttar Pradesh	44407	47400	47400	48800	49950
19. Uttrakhand	44407	47400	47400	48800	49950
20. West Bengal	24625	22617	18588	19512	19482
Sub-Total-I (SPUs)	690425	692936	707240	703686	708704
II. EDs					
1. Arunachal Pradesh	8948	8750	8700	8650	8600
2. Goa	4807	4837	4976	5497	5497
3. Manipur	3583	3426	3292	3208	3158
4. Mizoram	1899	1961	2180	1603	1603
5. Nagaland	4044	4044	4380	4380	4380
6. Pondicherry	1837	1837	1837	1837	1837
7. Sikkim	3666	3688	3750	3850	3850
8. Tripura	4633	4627	4488	4443	4793
Sub-Total-II (EDs)	33417	33170	33603	33468	33718
Total: (I+II)	723842	726106	740843	737154	742422

Annexure 4.19

NUMBER OF EMPLOYEES PER MKWH OF ELECTRICITY SOLD

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU s					
1. Andhra Pradesh	0.90	0.80	0.71	0.64	0.57
2. Assam	4.63	4.63	4.57	3.37	2.57
3. Bihar	2.61	2.38	2.08	1.59	1.53
4. Chhatishgarh	1.48	1.17	1.33	0.81	0.73
5. Gujarat	1.15	1.17	1.14	1.11	1.06
6. Haryana	1.59	1.36	1.19	1.01	0.89
7. Himachal Pradesh	3.05	2.73	2.68	2.43	2.28
8. Jammu & Kashmir	8.20	7.03	4.61	4.18	4.05
9. Jharkhand	1.61	1.50	1.23	0.89	0.79
10. Karnataka	1.01	0.98	0.95	0.90	0.82
11. Kerala	1.93	2.10	2.01	2.02	1.91
12. Madhya Pradesh	2.44	2.38	2.11	1.94	1.73
13. Maharashtra	1.14	1.09	1.36	1.21	0.99
14. Meghalaya	3.48	3.50	3.72	3.39	2.72
15. Punjab	2.06	1.96	1.97	1.92	1.78
16. Rajasthan	1.74	1.53	1.31	1.18	1.08
17. Tamil Nadu	1.43	1.44	1.41	1.23	1.16
18. Uttar Pradesh	1.20	1.18	1.15	1.08	0.91
19. Uttrakhand	9.38	8.63	7.58	7.06	6.49
20. West Bengal	1.55	1.29	0.94	0.93	0.88
Average of SPU s	1.55	1.46	1.39	1.31	1.17
II. ED s					
1. Arunachal Pradesh	23.14	15.81	13.59	12.28	11.10
2. Goa	1.84	1.89	1.73	1.82	1.66
3. Manipur	10.70	11.36	11.30	9.46	8.61
4. Mizoram	6.82	7.48	9.49	6.45	5.94
5. Nagaland	14.77	11.14	13.45	12.33	11.87
6. Pondicherry	0.81	0.86	0.79	0.73	0.67
7. Sikkim	6.60	5.02	5.15	5.59	4.84
8. Tripura	5.39	5.33	5.57	4.52	4.73
Average of ED s	4.42	4.27	4.09	3.78	3.51
All India Average	1.60	1.50	1.43	1.35	1.21

NUMBER OF EMPLOYEES PER THOUSAND CONSUMERS

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU s					
1. Andhra Pradesh	0.24	0.21	0.20	0.18	0.17
2. Assam	1.06	0.83	0.70	0.56	0.40
3. Bihar	0.46	0.43	0.40	0.33	0.32
4. Chhatisgarh	0.61	0.63	0.59	0.34	0.32
5. Gujarat	0.50	0.50	0.46	0.45	0.43
6. Haryana	0.68	0.61	0.60	0.61	0.60
7. Himachal Pradesh	1.03	1.01	0.99	0.97	0.95
8. Jammu & Kashmir	2.28	2.04	1.43	1.43	1.44
9. Jharkhand	0.49	0.45	0.38	0.26	0.21
10. Karnataka	0.20	0.20	0.19	0.18	0.18
11. Kerala	0.29	0.29	0.29	0.29	0.28
12. Madhya Pradesh	0.73	0.66	0.56	0.54	0.43
13. Maharashtra	0.41	0.38	0.48	0.45	0.44
14. Meghalaya	1.40	1.43	1.41	1.35	1.32
15. Punjab	1.04	0.97	0.93	0.89	0.84
16. Rajasthan	0.58	0.52	0.47	0.45	0.44
17. Tamil Nadu	0.40	0.37	0.38	0.35	0.34
18. Uttar Pradesh	0.46	0.48	0.41	0.38	0.37
19. Uttrakhand	3.61	3.53	3.28	3.15	3.00
20. West Bengal	0.35	0.30	0.24	0.22	0.18
Average of SPU s	0.49	0.46	0.44	0.41	0.38
II. ED s					
1. Arunachal Pradesh	6.16	4.79	3.81	3.44	3.11
2. Goa	0.97	0.97	0.96	1.01	0.97
3. Manipur	1.98	1.87	1.76	1.20	1.15
4. Mizoram	1.32	1.23	1.38	0.97	0.92
5. Nagaland	2.24	2.20	2.37	2.37	2.38
6. Pondicherry	0.62	0.59	0.57	0.56	0.54
7. Sikkim	4.72	4.71	4.57	4.50	4.32
8. Tripura	1.24	1.16	1.02	0.96	0.95
Average of ED s	1.76	1.66	1.59	1.46	1.40
All India Average	0.51	0.47	0.45	0.42	0.40

Annexure 4.21

AVERAGE TARIFF FOR SALE OF ELECTRICITY

(Paise/Kwh)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's					
1. Andhra Pradesh	254.15	251.60	260.79	280.87	291.52
2. Assam	427.55	491.56	472.03	486.42	512.97
3. Bihar	296.46	311.63	303.02	342.20	373.74
4. Chhatisgarh	339.87	337.01	287.23	301.64	307.83
5. Delhi	443.05	396.14	446.66		
6. Gujarat	337.31	417.84	405.71	394.82	398.41
7. Haryana	274.73	323.02	337.90	336.12	347.04
8. Himachal Pradesh	356.35	405.98	404.46	433.66	478.84
9. Jammu & Kashmir	254.78	234.45	242.14	270.09	270.09
10. Jharkhand	324.93	319.06	285.99	308.72	344.45
11. Karnataka	305.62	303.42	338.30	409.35	415.43
12. Kerala	350.61	379.96	337.93	348.28	349.21
13. Madhya Pradesh	301.45	319.56	311.88	348.70	365.52
14. Maharashtra	361.81	403.69	432.30	447.45	466.21
15. Meghalaya	297.90	371.02	419.74	385.46	411.38
16. Orissa	295.58	306.79	303.97		
17. Punjab	238.60	267.21	255.23	287.59	393.08
18. Rajasthan	328.44	315.65	305.05	310.31	305.30
19. Tamil Nadu	296.66	290.69	290.18	330.86	352.73
20. Uttar Pradesh	268.40	266.36	329.26	363.89	403.31
21. Uttrakhand	247.66	290.95	333.71	353.11	351.37
22. West Bengal	355.40	390.85	398.26	457.00	488.59
Average of SPU's	306.72	325.57	333.77	358.18	380.37
II. EDs					
1. Arunachal Pradesh	276.51	265.50	259.09	273.93	290.93
2. Goa	297.99	376.56	353.69	347.56	376.00
3. Manipur	306.57	405.30	342.42	320.03	320.32
4. Mizoram	292.28	326.11	287.46	315.51	334.17
5. Nagaland	270.88	332.62	278.21	290.02	301.44
6. Pondicherry	252.77	255.08	239.55	281.68	303.66
7. Sikkim	412.66	407.27	429.35	217.39	221.31
8. Tripura	296.53	387.74	325.24	324.82	364.17
Average of EDs	290.86	336.91	312.78	306.06	328.48
All India Average	306.46	325.76	333.44	357.33	379.56

Note: Delhi data is for NDPL Discom only

CONSUMER CATEGORYWISE AVERAGE TARIFF, 2007-08

(Paise/Kwh)

	Domes- tic	Commer- cial	Agri./ irrig.	Indus- trial	Rly. tractn.	Outside State	Overall average
I. SPU's							
1. Andhra Pradesh	242.29	586.59	8.17	365.45	407.82	424.32	254.15
2. Assam	285.00	573.07	444.73	498.00	0.00	415.00	427.55
3. Bihar	181.52	484.71	64.01	446.05	501.56	368.42	296.46
4. Chhatisgarh	239.21	474.99	79.13	368.63	406.01	557.10	339.87
5. Delhi	342.38	638.80	166.67	474.77	341.27	413.39	443.05
6. Gujarat	305.31	487.82	119.52	458.00	501.70	473.02	337.31
7. Haryana	343.14	442.06	37.72	431.34	425.89	0.00	274.73
8. Himachal Pradesh	243.55	466.57	147.64	328.80	0.00	514.86	356.35
9. Jammu & Kashmir	151.00	259.01	226.00	214.01	0.00	0.00	254.78
10. Jharkhand	104.87	425.75	45.77	439.88	492.35	441.57	324.93
11. Karnataka	319.19	276.39	72.87	467.23	0.00	0.00	305.62
12. Kerala	172.10	668.20	105.44	404.46	359.05	692.12	350.61
13. Madhya Pradesh	305.28	562.01	111.04	437.11	466.69	514.94	301.45
14. Maharashtra	308.00	620.95	173.00	443.44	464.00	0.00	361.81
15. Meghalaya	245.82	437.77	180.33	278.95	0.00	370.32	297.90
16. Orissa	195.09	393.62	114.50	313.08	387.21	0.00	295.58
17. Punjab	250.88	426.25	1.80	364.05	439.91	511.29	238.60
18. Rajasthan	347.01	516.09	140.03	481.24	399.55	288.86	328.44
19. Tamil Nadu	153.07	606.30	0.04	455.01	0.00	446.93	296.66
20. Uttar Pradesh	187.08	374.47	162.95	432.63	392.04	0.00	268.40
21. Uttrakhand	185.03	322.55	91.27	286.50	411.66	184.36	247.66
22. West Bengal	276.78	459.48	120.65	412.61	93.04	585.78	355.40
Average of SPU's	243.26	496.65	77.61	418.46	437.45	501.10	306.72
II. EDs							
1. Arunachal Pradesh	265.00	892.03	0.00	261.51	0.00	270.00	276.51
2. Goa	167.88	372.78	158.86	333.71	0.00	349.42	297.99
3. Manipur	259.93	299.85	270.00	295.78	0.00	295.94	306.57
4. Mizoram	219.83	285.56	0.00	315.48	0.00	323.49	292.28
5. Nagaland	255.00	359.78	0.00	291.06	0.00	287.30	270.88
6. Pondicherry	81.06	259.05	2.33	297.61	0.00	400.88	252.77
7. Sikkim	160.00	260.10	0.00	254.99	0.00	609.83	412.66
8. Tripura	255.00	325.00	130.00	289.00	0.00	324.99	296.53
Average of EDs	177.74	330.12	48.36	311.88	0.00	372.07	290.86
All India Average	242.23	494.34	77.57	416.41	437.45	484.29	306.46

Note: Delhi data is for NDPL Discom only

Annexure 4.23

CONSUMER CATEGORYWISE AVERAGE TARIFF, 2008-09

(Paise/Kwh)

	Domes- tic	Commer- cial	Agri./ irrig.	Indus- trial	Rly. tractn.	Outside State	Overall average
I. SPU s							
1. Andhra Pradesh	240.23	575.88	8.61	373.98	412.62	134.21	251.60
2. Assam	298.00	604.57	490.19	522.00	0.00	576.00	491.56
3. Bihar	181.59	483.71	64.01	435.52	502.69	582.00	311.63
4. Chhatisgarh	184.75	475.09	37.92	385.45	424.04	521.93	337.01
5. Delhi	348.24	646.94	214.29	493.49	379.03	0.00	396.14
6. Gujarat	379.45	563.91	197.49	537.72	585.69	706.55	417.84
7. Haryana	338.17	439.79	40.18	429.68	431.69	0.00	323.02
8. Himachal Pradesh	260.79	501.15	256.59	355.24	0.00	619.19	405.98
9. Jammu & Kashmir	142.25	165.09	151.41	245.65	0.00	0.00	234.45
10. Jharkhand	98.74	400.69	51.63	456.03	1000.00	441.57	319.06
11. Karnataka	320.73	268.93	82.32	469.27	0.00	0.00	303.42
12. Kerala	191.71	743.65	135.33	474.71	475.82	947.04	379.96
13. Madhya Pradesh	322.49	553.93	205.98	448.75	458.41	746.87	319.56
14. Maharashtra	345.23	692.10	194.08	445.99	491.00	0.00	403.69
15. Meghalaya	273.10	555.00	160.00	373.18	0.00	589.95	371.02
16. Orissa	200.00	325.73	131.03	331.43	388.08	0.00	306.79
17. Punjab	262.62	449.65	0.00	386.42	460.71	555.07	267.21
18. Rajasthan	382.86	542.45	133.71	486.96	465.23	316.00	315.65
19. Tamil Nadu	165.17	616.23	0.04	457.90	0.00	372.31	290.69
20. Uttar Pradesh	175.18	358.49	153.06	431.81	384.36	0.00	266.36
21. Uttrakhand	185.59	331.19	121.82	339.17	388.26	271.96	290.95
22. West Bengal	278.03	473.70	168.80	416.72	418.62	698.70	390.85
Average of SPU s	254.03	512.23	94.75	435.17	481.02	550.94	325.57
II. ED s							
1. Arunachal Pradesh	280.00	330.05	0.00	276.83	0.00	240.00	265.50
2. Goa	185.06	427.40	197.12	318.36	0.00	850.70	376.56
3. Manipur	259.99	300.00	270.00	318.62	0.00	588.75	405.30
4. Mizoram	223.37	279.68	0.00	327.16	0.00	435.70	326.11
5. Nagaland	256.00	359.78	0.00	292.81	0.00	405.00	332.62
6. Pondicherry	77.61	258.48	3.36	297.29	0.00	527.17	255.08
7. Sikkim	160.00	259.95	0.00	254.96	0.00	537.57	407.27
8. Tripura	255.00	325.00	130.00	289.00	0.00	520.04	387.74
Average of ED s	186.21	341.61	75.78	304.60	0.00	521.08	336.91
All India Average	252.96	509.88	94.73	432.74	481.02	547.71	325.76

Note: Delhi data is for NDPL Discom only

CONSUMER CATEGORYWISE AVERAGE TARIFF, 2009-10

(Paise/Kwh)

	Domes- tic	Commer- cial	Agri./ irrig.	Indus- trial	Rly. tractn.	Outside State	Overall average
I. SPU s							
1. Andhra Pradesh	261.47	596.77	9.16	397.81	416.55	41.29	260.79
2. Assam	314.00	622.65	512.88	534.00	0.00	358.00	472.03
3. Bihar	181.54	483.72	64.00	430.49	489.01	383.98	303.02
4. Chhatisgarh	177.52	454.17	53.44	364.40	508.70	417.44	287.23
5. Delhi	429.64	640.27	200.00	470.81	1074.07	0.00	446.66
6. Gujarat	374.23	562.58	176.92	527.47	579.00	494.04	405.71
7. Haryana	326.65	417.67	35.84	424.67	424.41	0.00	337.90
8. Himachal Pradesh	261.89	501.94	0.00	345.67	0.00	641.71	404.46
9. Jammu & Kashmir	141.34	230.00	129.02	256.45	0.00	0.00	242.14
10. Jharkhand	89.49	431.00	51.25	416.35	1000.00	441.57	285.99
11. Karnataka	338.45	289.68	145.32	492.56	0.00	0.00	338.30
12. Kerala	183.39	745.65	109.88	413.15	397.88	880.64	337.93
13. Madhya Pradesh	342.47	452.27	228.92	444.52	469.29	297.45	311.88
14. Maharashtra	401.70	673.98	196.98	481.97	542.00	0.00	432.30
15. Meghalaya	292.43	591.77	158.73	500.07	0.00	341.50	419.74
16. Orissa	189.95	377.80	185.43	342.33	370.67	0.00	303.97
17. Punjab	290.02	487.20	0.00	425.14	495.92	26.12	255.23
18. Rajasthan	377.87	545.46	121.46	493.37	405.09	323.44	305.05
19. Tamil Nadu	172.52	606.45	0.03	473.52	0.00	190.62	290.18
20. Uttar Pradesh	244.24	469.99	209.79	485.20	409.58	0.00	329.26
21. Uttrakhand	217.88	391.83	160.49	383.04	530.00	529.06	333.71
22. West Bengal	334.83	533.06	141.36	460.30	462.23	416.68	398.26
Average of SPU s	277.39	528.07	101.02	452.32	498.48	386.28	333.77
II. ED s							
1. Arunachal Pradesh	294.00	346.55	0.00	290.72	0.00	217.73	259.09
2. Goa	186.58	421.50	158.82	376.63	0.00	482.53	353.69
3. Manipur	260.00	300.00	270.00	295.50	0.00	361.06	342.42
4. Mizoram	188.29	342.33	0.00	320.00	0.00	450.35	287.46
5. Nagaland	210.02	360.19	0.00	290.05	0.00	395.00	278.21
6. Pondicherry	83.00	284.83	3.25	286.01	0.00	445.94	239.55
7. Sikkim	160.00	260.07	0.00	254.99	0.00	667.21	429.35
8. Tripura	255.00	325.00	130.00	289.00	0.00	388.86	325.24
Average of ED s	180.27	344.38	60.85	327.13	0.00	442.61	312.78
All India Average	275.82	525.76	100.97	449.99	498.48	392.39	333.44

Note: Delhi data is for NDPL Discom only

Annexure 4.25

CONSUMER CATEGORYWISE AVERAGE TARIFF, 2010-11 (R.E)

(Paise/Kwh)

	Domestic	Commercial	Agri./irrig.	Industrial	Rly. tractn.	Outside State	Overall average
I. SPU's							
1. Andhra Pradesh	282.03	615.58	18.70	406.65	428.71	1741.27	280.87
2. Assam	335.00	603.33	404.93	484.00	0.00	600.00	486.42
3. Bihar	208.77	556.27	73.61	495.07	562.35	383.98	342.20
4. Chhatisgarh	190.62	408.72	105.18	381.02	423.87	564.65	301.64
5. Gujarat	372.35	564.80	176.45	527.47	571.00	372.70	394.82
6. Haryana	338.68	425.43	35.03	428.56	418.89	0.00	336.12
7. Himachal Pradesh	292.67	520.37	0.00	398.73	0.00	607.63	433.66
8. Jammu & Kashmir	161.00	269.00	142.00	278.00	0.00	0.00	270.09
9. Jharkhand	103.44	516.04	58.74	481.69	1000.00	453.78	308.72
10. Karnataka	362.33	310.86	210.16	536.31	0.00	0.00	409.35
11. Kerala	198.85	765.00	109.88	426.50	397.86	0.00	348.28
12. Madhya Pradesh	383.91	688.55	256.31	498.14	526.07	0.00	348.70
13. Maharashtra	417.77	700.96	204.86	490.25	564.00	0.00	447.45
14. Meghalaya	303.62	481.49	160.60	457.28	0.00	137.32	385.46
15. Punjab	319.04	501.46	65.36	430.77	484.47	153.54	287.59
16. Rajasthan	384.25	548.54	125.45	484.38	398.85	275.70	310.31
17. Tamil Nadu	177.55	662.31	0.04	502.55	0.00	308.22	330.86
18. Uttar Pradesh	295.44	475.09	220.55	627.12	461.93	0.00	363.89
19. Uttrakhand	241.31	404.71	198.46	401.01	440.79	0.00	353.11
20. West Bengal	392.85	566.17	254.39	531.23	500.66	395.34	457.00
Average of SPU's	302.30	562.05	123.55	480.13	523.72	458.37	358.18
II. EDs							
1. Arunachal Pradesh	323.40	381.01	0.00	319.80	0.00	217.51	273.93
2. Goa	185.33	516.51	171.01	372.88	0.00	460.33	347.56
3. Manipur	260.00	300.05	268.21	297.60	0.00	400.04	320.03
4. Mizoram	192.06	354.94	0.00	314.92	0.00	657.89	315.51
5. Nagaland	229.98	370.03	0.00	300.37	0.00	375.05	290.02
6. Pondicherry	99.05	357.39	4.45	360.40	0.00	300.00	281.68
7. Sikkim	160.00	260.02	0.00	255.01	0.00	250.00	217.39
8. Tripura	316.00	484.00	268.00	553.50	0.00	260.92	324.82
Average of EDs	194.34	415.50	61.57	361.60	0.00	311.27	306.06
All India Average	300.49	560.23	123.49	477.82	523.72	437.65	357.33

CONSUMER CATEGORYWISE AVERAGE TARIFF, A.P 2011-12

(Paise/Kwh)

	Domestic	Commercial	Agri./ irrig.	Industrial	Rly. tractn.	Outside State	Overall average
I. SPU's							
1. Andhra Pradesh	282.56	616.33	32.10	418.02	445.21	1616.01	291.52
2. Assam	393.00	674.33	479.03	573.00	0.00	600.00	512.97
3. Bihar	229.65	611.89	80.97	544.57	618.59	383.98	373.74
4. Chhatisgarh	191.21	404.91	106.89	370.57	424.64	400.00	307.83
5. Gujarat	372.90	572.42	176.07	531.84	568.51	336.25	398.41
6. Haryana	380.96	467.18	37.69	461.21	460.33	0.00	347.04
7. Himachal Pradesh	307.30	546.39	0.00	418.68	0.00	750.00	478.84
8. Jammu & Kashmir	161.00	269.00	142.00	278.01	0.00	0.00	270.09
9. Jharkhand	103.44	516.03	58.79	481.76	1000.00	453.92	344.45
10. Karnataka	360.21	312.11	205.99	613.20	0.00	0.00	415.43
11. Kerala	200.00	767.07	109.89	427.12	397.88	0.00	349.21
12. Madhya Pradesh	383.91	688.55	301.51	498.22	526.07	0.00	365.52
13. Maharashtra	438.66	736.13	215.10	514.80	592.00	0.00	466.21
14. Meghalaya	333.98	529.72	176.66	502.94	0.00	117.11	411.38
15. Punjab	377.21	519.00	320.00	454.72	540.99	0.00	393.08
16. Rajasthan	378.26	541.52	122.12	465.13	386.49	281.23	305.30
17. Tamil Nadu	180.87	695.31	0.04	529.75	0.00	308.21	352.73
18. Uttar Pradesh	348.03	531.81	242.27	637.11	464.44	0.00	403.31
19. Uttrakhand	240.48	402.73	200.80	398.98	438.48	0.00	351.37
20. West Bengal	416.66	601.29	269.72	563.11	530.70	441.26	488.59
Average of SEBs	321.82	582.67	153.21	499.38	538.98	468.55	380.37
II. EDs							
1. Arunachal Pradesh	355.74	419.27	0.00	351.76	0.00	218.51	290.93
2. Goa	200.50	558.78	152.63	381.30	0.00	631.45	376.00
3. Manipur	260.02	300.20	204.19	297.45	0.00	400.02	320.32
4. Mizoram	233.67	460.19	0.00	402.91	0.00	439.02	334.17
5. Nagaland	240.00	380.16	0.00	300.00	0.00	400.00	301.44
6. Pondicherry	124.05	382.41	2.16	385.50	0.00	300.00	303.66
7. Sikkim	160.00	260.00	0.00	255.00	0.00	250.00	221.31
8. Tripura	316.00	484.00	333.35	553.50	0.00	352.62	364.17
Average of EDs	209.96	444.96	66.37	378.12	0.00	354.61	328.48
All India Average	320.03	581.04	153.13	497.11	538.98	451.57	379.56

Annexure 4.27

AVERAGE TARIFF FOR AGRICULTURE

(Paise/Kwh)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's					
1. Andhra Pradesh	8.17	8.61	9.16	18.70	32.10
2. Assam	444.73	490.19	512.88	404.93	479.03
3. Bihar	64.01	64.01	64.00	73.61	80.97
4. Chhatisgarh	79.13	37.92	53.44	105.18	106.89
5. Delhi	166.67	214.29	200.00		
6. Gujarat	119.52	197.49	176.92	176.45	176.07
7. Haryana	37.72	40.18	35.84	35.03	37.69
8. Himachal Pradesh	147.64	256.59	0.00	0.00	0.00
9. Jammu & Kashmir	226.00	151.41	129.02	142.00	142.00
10. Jharkhand	45.77	51.63	51.25	58.74	58.79
11. Karnataka	72.87	82.32	145.32	210.16	205.99
12. Kerala	105.44	135.33	109.88	109.88	109.89
13. Madhya Pradesh	111.04	205.98	228.92	256.31	301.51
14. Maharashtra	173.00	194.08	196.98	204.86	215.10
15. Meghalaya	180.33	160.00	158.73	160.60	176.66
16. Orissa	114.50	131.03	185.43		
17. Punjab	1.80	0.00	0.00	65.36	320.00
18. Rajasthan	140.03	133.71	121.46	125.45	122.12
19. Tamil Nadu	0.04	0.04	0.03	0.04	0.04
20. Uttar Pradesh	162.95	153.06	209.79	220.55	242.27
21. Uttrakhand	91.27	121.82	160.49	198.46	200.80
22. West Bengal	120.65	168.80	141.36	254.39	269.72
Average of SPU's	77.61	94.75	101.02	123.55	153.21
II. EDs					
1. Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00
2. Goa	158.86	197.12	158.82	171.01	152.63
3. Manipur	270.00	270.00	270.00	268.21	204.19
4. Mizoram	0.00	0.00	0.00	0.00	0.00
5. Nagaland	0.00	0.00	0.00	0.00	0.00
6. Pondicherry	2.33	3.36	3.25	4.45	2.16
7. Sikkim	0.00	0.00	0.00	0.00	0.00
8. Tripura	130.00	130.00	130.00	268.00	333.35
Average of EDs	48.36	75.78	60.85	61.57	66.37
All India Average	77.57	94.73	100.97	123.49	153.13

Note: Delhi data is for NDPL Discom only

AVERAGE TARIFF FOR INDUSTRY

(Paise/Kwh)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's					
1. Andhra Pradesh	365.45	373.98	397.81	406.65	418.02
2. Assam	498.00	522.00	534.00	484.00	573.00
3. Bihar	446.05	435.52	430.49	495.07	544.57
4. Chhatisgarh	368.63	385.45	364.40	381.02	370.57
5. Delhi	474.77	493.49	470.81		
6. Gujarat	458.00	537.72	527.47	527.47	531.84
7. Haryana	431.34	429.68	424.67	428.56	461.21
8. Himachal Pradesh	328.80	355.24	345.67	398.73	418.68
9. Jammu & Kashmir	214.01	245.65	256.45	278.00	278.01
10. Jharkhand	439.88	456.03	416.35	481.69	481.76
11. Karnataka	467.23	469.27	492.56	536.31	613.20
12. Kerala	404.46	474.71	413.15	426.50	427.12
13. Madhya Pradesh	437.11	448.75	444.52	498.14	498.22
14. Maharashtra	443.44	445.99	481.97	490.25	514.80
15. Meghalaya	278.95	373.18	500.07	457.28	502.94
16. Orissa	313.08	331.43	342.33		
17. Punjab	364.05	386.42	425.14	430.77	454.72
18. Rajasthan	481.24	486.96	493.37	484.38	465.13
19. Tamil Nadu	455.01	457.90	473.52	502.55	529.75
20. Uttar Pradesh	432.63	431.81	485.20	627.12	637.11
21. Uttrakhand	286.50	339.17	383.04	401.01	398.98
22. West Bengal	412.61	416.72	460.30	531.23	563.11
Average of SPU's	418.46	435.17	452.32	480.13	499.38
II. EDs					
1. Arunachal Pradesh	261.51	276.83	290.72	319.80	351.76
2. Goa	333.71	318.36	376.63	372.88	381.30
3. Manipur	295.78	318.62	295.50	297.60	297.45
4. Mizoram	315.48	327.16	320.00	314.92	402.91
5. Nagaland	291.06	292.81	290.05	300.37	300.00
6. Pondicherry	297.61	297.29	286.01	360.40	385.50
7. Sikkim	254.99	254.96	254.99	255.01	255.00
8. Tripura	289.00	289.00	289.00	553.50	553.50
Average of EDs	311.88	304.60	327.13	361.60	378.12
All India Average	416.41	432.74	449.99	477.82	497.11

Note: Delhi data is for NDPL Discom only

Annexure 4.29

SALES REVENUE AS A RATIO OF COST

(%)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's					
1. Andhra Pradesh	75.56	59.42	65.01	72.58	75.90
2. Assam	84.19	89.47	79.18	78.92	89.54
3. Bihar	44.49	45.04	42.05	47.40	48.22
4. Chhatisgarh	106.05	113.60	84.40	78.50	77.67
5. Delhi	94.20	97.04	84.39		
6. Gujarat	86.11	90.00	91.95	92.80	93.20
7. Haryana	59.33	59.47	58.41	62.99	65.80
8. Himachal Pradesh	93.32	96.30	89.67	91.72	98.16
9. Jammu & Kashmir	39.24	34.59	37.58	37.56	38.71
10. Jharkhand	51.53	48.99	43.18	57.93	60.47
11. Karnataka	81.22	72.67	82.76	88.46	90.33
12. Kerala	93.76	83.19	70.81	77.13	71.51
13. Madhya Pradesh	67.30	64.89	55.92	62.13	65.77
14. Maharashtra	88.15	89.70	92.72	96.85	97.21
15. Meghalaya	81.20	103.24	92.99	74.78	86.56
16. Orissa	91.96	83.59	92.14		
17. Punjab	58.76	65.91	61.58	57.54	75.02
18. Rajasthan	64.23	49.50	44.88	49.27	49.22
19. Tamil Nadu	74.56	60.70	58.77	64.67	68.63
20. Uttar Pradesh	65.52	60.70	65.01	72.59	84.72
21. Uttrakhand	83.53	80.22	84.49	85.27	77.19
22. West Bengal	100.70	79.64	89.80	96.90	100.99
Average of SPU's	76.37	71.28	70.39	73.75	77.82
II. EDs					
1. Arunachal Pradesh	56.36	75.25	83.12	72.53	75.46
2. Goa	118.58	126.48	119.97	116.03	111.54
3. Manipur	52.36	51.71	48.53	38.41	38.03
4. Mizoram	64.19	53.04	33.27	34.02	38.47
5. Nagaland	47.60	64.42	44.75	43.36	46.14
6. Pondicherry	103.28	86.55	91.15	84.76	94.92
7. Sikkim	165.34	192.88	173.43	120.93	117.29
8. Tripura	90.65	110.83	83.27	74.23	77.53
Average of EDs	95.70	99.60	93.17	81.83	85.51
All India Average	73.74	69.02	67.98	73.85	77.91

COMMERCIAL PROFIT/LOSS (with subsidy)

(Rs.Crore)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU s					
1. Andhra Pradesh	-71.16	-173.18	-123.84	-6611.68	-6463.12
2. Assam	-139.42	-121.69	-290.19	-206.22	-222.59
3. Bihar	-950.55	-1214.86	-1575.78	-1541.87	-1788.42
4. Chhatisgarh	464.38	846.25	-333.17	-693.67	-900.63
5. Delhi	-222.00	121.00	615.00		
6. Gujarat	124.00	150.00	385.00	513.00	642.00
7. Haryana	-822.60	-1381.52	-1674.92	-1797.09	-2024.25
8. Himachal Pradesh	-25.38	32.31	-152.82	-125.56	115.20
9. Jammu & Kashmir	-1312.52	-1316.44	-1540.58	-1949.71	-1968.40
10. Jharkhand	-761.29	-140.79	-488.00	-314.40	100.60
11. Karnataka	33.33	-1608.97	-257.90	174.70	385.16
12. Kerala	217.42	217.42	240.73	286.99	361.37
13. Madhya Pradesh	-1981.24	-2260.04	-3661.29	-3363.88	-3130.31
14. Maharashtra	40.12	-1381.16	-622.97	164.95	149.54
15. Meghalaya	-7.78	67.49	44.69	-53.95	6.50
16. Orissa	-114.00	-148.00	-172.00		
17. Punjab	-1611.37	-1292.62	-1301.54	-3475.12	-4230.43
18. Rajasthan	-2703.07	-6743.29	-9455.68	-9128.24	-10238.11
19. Tamil Nadu	-3512.08	-7768.39	-9680.25	-8871.65	-8143.91
20. Uttar Pradesh	-3146.96	-5111.26	-4954.38	-3611.80	604.88
21. Uttrakhand	-243.05	-354.58	-390.69	-450.31	-830.95
22. West Bengal	102.11	48.54	100.75	195.61	204.42
Sub-Total-I (SPUs)	-16643.11	-29533.78	-35289.84	-40859.90	-37371.45
II. EDs					
1. Arunachal Pradesh	-82.58	-48.09	-33.39	-72.73	-72.89
2. Goa	139.04	225.27	182.11	168.98	158.64
3. Manipur	-93.37	-113.48	-105.71	-172.95	-190.25
4. Mizoram	-44.00	-74.02	-130.81	-150.32	-142.50
5. Nagaland	-81.26	-66.27	-111.40	-133.81	-129.07
6. Pondicherry	20.80	-80.46	-47.21	-120.41	-37.19
7. Sikkim	90.61	143.98	132.44	25.92	25.94
8. Tripura	28.16	52.03	-33.33	-85.89	-77.14
Sub-Total-II (EDs)	-22.60	38.96	-147.30	-541.22	-464.46
Grand Total: (I+II)	-16665.70	-29494.82	-35437.14	-41401.12	-37835.91

Annexure 4.31 (a)

Commercial Losses for the Year 2007-08

(Rs.Crore)

	Total Revenue	Revenue Expenditure	Gross Operating Surplus	Depriciation	Net Operating Surplus	Total Interest Payable	Commercial Profit/Loss
I. SPU's							
1. Andhra Pradesh	16525.04	15284.91	1240.13	644.61	595.52	666.68	-71.16
2. Assam	1588.29	1487.85	100.44	113.38	-12.94	126.48	-139.42
3. Bihar	2282.32	2397.00	-114.68	53.62	-168.30	782.25	-950.55
4. Chhatishgarh	3972.45	3194.64	777.81	125.63	652.18	187.80	464.38
5. Gujarat	16210.00	14614.00	1596.00	817.00	779.00	655.00	124.00
6. Haryana	7631.24	8020.00	-388.76	176.79	-565.55	257.05	-822.60
7. Himachal Pradesh	2352.48	2112.40	240.08	87.99	152.09	177.47	-25.38
8. Jammu & Kashmir	850.78	2083.75	-1232.97	62.58	-1295.55	16.97	-1312.52
9. Jharkhand	1938.32	2152.98	-214.66	43.53	-258.19	503.10	-761.29
10. Karnataka	11317.63	10592.38	725.25	160.30	564.95	531.62	33.33
11. Kerala	5227.12	4237.84	989.28	419.09	570.19	352.77	217.42
12. Madhya Pradesh	7706.15	8457.05	-750.90	587.45	-1338.35	642.89	-1981.24
13. Maharashtra	20999.16	20053.57	945.59	539.83	405.76	365.64	40.12
14. Meghalaya	380.40	335.90	44.50	12.90	31.60	39.38	-7.78
15. Punjab	11430.98	11300.29	130.69	668.57	-537.88	1073.49	-1611.37
16. Rajasthan	9394.17	10789.63	-1395.46	283.71	-1679.17	1023.90	-2703.07
17. Tamil Nadu	17508.43	18948.94	-1440.51	676.40	-2116.91	1395.17	-3512.08
18. Uttar Pradesh	12050.00	13521.00	-1471.00	782.22	-2253.22	893.91	-3146.96
19. Uttrakhand	1219.85	1345.36	-125.51	71.22	-196.73	46.32	-243.05
20. West Bengal	5709.24	5062.75	646.49	190.09	456.40	354.29	102.11
Sub-Total-I(SPU's)	156294.06	155992.24	301.81	6516.91	-6215.09	10092.19	-16307.11
II. EDs							
1. Arunachal Pradesh	107.12	171.70	-64.58	0.00	-64.58	18.00	-82.58
2. Goa	796.25	635.78	160.47	16.61	143.86	4.82	139.04
3. Manipur	102.76	159.11	-56.35	31.00	-87.35	6.02	-93.37
4. Mizoram	82.88	116.67	-33.79	0.00	-33.79	10.21	-44.00
5. Nagaland	74.57	122.61	-48.04	16.97	-65.01	16.25	-81.26
6. Pondicherry	572.44	539.30	33.14	12.34	20.80	0.00	20.80
7. Sikkim	229.28	138.67	90.61	0.00	90.61	0.00	90.61
8. Tripura	309.54	252.38	57.16	29.00	28.16	0.00	28.16
Sub-Total-II (EDs)	2274.84	2136.22	138.62	105.92	32.70	55.30	-22.60
Grand Total: (I+II)	158568.90	158128.46	440.44	6622.83	-6182.39	10147.49	-16329.87

Annexure 4.31 (b)

Commercial Losses for the Year 2008-09

(Rs.Crore)

	Total Revenue	Revenue Expenditure	Gross Operating Surplus	Depreciation	Net Operating Surplus	Total Interest Payable	Commercial Profit/Loss
I. SPU s							
1. Andhra Pradesh	22618.46	20995.32	1623.14	779.57	843.57	1016.75	-173.18
2. Assam	1736.74	1539.64	197.10	143.36	53.74	175.43	-121.69
3. Bihar	2469.06	2780.77	-311.71	55.55	-367.26	847.60	-1214.86
4. Chhatisgarh	5313.40	3927.31	1386.09	264.20	1121.89	275.64	846.25
5. Gujarat	20093.00	18195.00	1898.00	961.00	937.00	787.00	150.00
6. Haryana	9350.85	10035.57	-684.72	174.67	-859.39	522.12	-1381.52
7. Himachal Pradesh	2966.06	2664.55	301.52	96.96	204.56	172.25	32.31
8. Jammu & Kashmir	831.47	2064.60	-1233.13	68.94	-1302.07	14.37	-1316.44
9. Jharkhand	2893.15	2437.29	455.86	48.40	407.46	548.25	-140.79
10. Karnataka	11846.07	12726.65	-880.58	202.49	-1083.07	525.90	-1608.97
11. Kerala	6098.98	5107.22	991.76	434.74	557.02	339.60	217.42
12. Madhya Pradesh	8382.70	9436.08	-1053.38	711.22	-1764.60	495.44	-2260.04
13. Maharashtra	24798.45	25103.24	-304.79	646.77	-951.56	429.60	-1381.16
14. Meghalaya	443.99	329.13	114.86	14.12	100.74	33.25	67.49
15. Punjab	11935.54	11103.09	832.45	700.91	131.54	1424.16	-1292.62
16. Rajasthan	10245.78	15131.91	-4886.14	387.72	-5273.86	1469.43	-6743.29
17. Tamil Nadu	17643.85	22634.40	-4990.55	771.29	-5761.84	2006.55	-7768.39
18. Uttar Pradesh	12554.00	15804.00	-3250.00	721.27	-3971.27	1139.99	-5111.26
19. Uttrakhand	1714.04	1912.10	-198.06	85.64	-283.70	70.88	-354.58
20. West Bengal	8675.31	7914.81	760.50	258.26	502.24	453.70	48.54
Sub-Total-I(SPU) s	182610.90	191842.68	-9231.78	7527.09	-16758.86	12747.91	-29506.78
II. ED s							
1. Arunachal Pradesh	147.19	178.28	-31.09	0.00	-31.09	17.00	-48.09
2. Goa	987.34	738.39	248.95	17.90	231.05	5.78	225.27
3. Manipur	122.92	190.78	-67.87	32.95	-100.82	12.66	-113.48
4. Mizoram	87.09	141.37	-54.28	0.00	-54.28	19.74	-74.02
5. Nagaland	121.13	155.81	-34.68	17.58	-52.26	14.01	-66.27
6. Pondicherry	546.33	613.50	-67.17	13.29	-80.46	0.00	-80.46
7. Sikkim	298.99	155.01	143.98	0.00	143.98	0.00	143.98
8. Tripura	356.03	272.68	83.35	31.32	52.03	0.00	52.03
Sub-Total-II(ED) s	2667.01	2445.83	221.19	113.04	108.15	69.19	38.96
Grand Total: (I+II)	185277.92	194288.51	-9010.59	7640.13	-16650.72	12817.11	-29467.82

Annexure 4.31 (c)

Commercial Losses for the Year 2009-10

(Rs.Crore)

	Total Revenue	Revenue Expenditure	Gross Operating Surplus	Depreciation	Net Operating Surplus	Total Interest Payable	Commercial Profit/Loss
I. SPU's							
1. Andhra Pradesh	23931.75	21860.10	2071.65	902.31	1169.34	1293.18	-123.84
2. Assam	1636.72	1616.36	20.36	150.53	-130.17	160.02	-290.19
3. Bihar	2795.90	3345.59	-549.69	59.72	-609.41	966.37	-1575.78
4. Chhatisgarh	4199.11	4354.25	-155.14	105.89	-261.03	72.14	-333.17
5. Gujarat	20218.00	17704.00	2514.00	1336.00	1178.00	793.00	385.00
6. Haryana	11667.06	12414.42	-747.36	151.49	-898.85	776.07	-1674.92
7. Himachal Pradesh	3048.74	2919.83	128.91	105.53	23.38	176.21	-152.82
8. Jammu & Kashmir	929.47	2372.35	-1442.88	82.73	-1525.61	14.97	-1540.58
9. Jharkhand	3024.39	2894.49	129.90	51.40	78.50	566.51	-488.00
10. Karnataka	13563.14	12716.42	846.72	349.42	497.30	755.20	-257.90
11. Kerala	6944.44	5988.92	955.52	451.22	504.30	263.57	240.73
12. Madhya Pradesh	9021.60	11180.50	-2158.90	962.67	-3121.57	539.72	-3661.29
13. Maharashtra	29188.60	28522.77	665.83	812.27	-146.44	476.53	-622.97
14. Meghalaya	486.54	370.21	116.33	25.94	90.39	45.70	44.69
15. Punjab	12249.74	11347.41	902.33	805.90	96.43	1397.97	-1301.54
16. Rajasthan	11337.52	18002.31	-6664.79	452.63	-7117.42	2338.26	-9455.68
17. Tamil Nadu	18845.88	24953.96	-6108.08	822.03	-6930.11	2750.14	-9680.25
18. Uttar Pradesh	15975.00	18781.00	-2806.00	641.02	-3447.02	1507.36	-4954.38
19. Uttrakhand	2177.35	2397.49	-220.14	93.42	-313.56	77.13	-390.69
20. West Bengal	8827.34	7995.64	831.70	277.26	554.44	453.69	100.75
Sub-Total-I (SPUs)	200068.29	211738.02	-11669.73	8639.38	-20309.11	15423.73	-35732.84
II. EDs							
1. Arunachal Pradesh	166.15	182.64	-16.49	0.00	-16.49	16.90	-33.39
2. Goa	1030.29	820.23	210.06	18.79	191.27	9.16	182.11
3. Manipur	99.87	163.52	-63.64	31.75	-95.39	10.32	-105.71
4. Mizoram	67.62	147.31	-79.69	0.00	-79.69	51.12	-130.81
5. Nagaland	90.97	167.46	-76.49	16.83	-93.32	18.08	-111.40
6. Pondicherry	562.37	588.47	-26.10	21.11	-47.21	0.00	-47.21
7. Sikkim	312.80	180.36	132.44	0.00	132.44	0.00	132.44
8. Tripura	281.49	282.14	-0.65	32.68	-33.33	0.00	-33.33
Sub-Total-II (EDs)	2611.57	2532.13	79.44	121.16	-41.72	105.58	-147.30
Grand Total: (I+II)	202679.86	214270.15	-11590.29	8760.54	-20350.83	15529.31	-35880.14

Commercial Losses for the Year 2010-11 (R.E)

(Rs.Crore)

	Total Revenue	Revenue Expenditure	Gross Operating Surplus	Depreciation	Net Operating Surplus	Total Interest Payable	Commercial Profit/Loss
I. SPU s							
1. Andhra Pradesh	18839.06	23871.12	-5032.06	870.92	-5902.98	708.70	-6611.68
2. Assam	2172.82	2071.93	100.89	149.85	-48.96	157.26	-206.22
3. Bihar	3669.07	4108.96	-439.89	71.50	-511.39	1030.48	-1541.87
4. Chhatisgarh	4567.16	5018.21	-451.05	105.12	-556.17	137.50	-693.67
5. Gujarat	20817.00	17790.00	3027.00	1532.00	1495.00	982.00	513.00
6. Haryana	13291.15	13739.62	-448.47	179.77	-628.24	1168.84	-1797.09
7. Himachal Pradesh	3564.05	3364.94	199.11	116.11	83.00	208.56	-125.56
8. Jammu & Kashmir	1177.72	3028.38	-1850.66	87.85	-1938.51	11.20	-1949.71
9. Jharkhand	3144.22	2972.16	172.06	62.20	109.86	424.26	-314.40
10. Karnataka	17285.36	15766.78	1518.58	487.59	1030.99	856.29	174.70
11. Kerala	6710.52	5631.47	1079.05	490.53	588.52	301.53	286.99
12. Madhya Pradesh	10776.55	12033.89	-1257.34	1204.56	-2461.90	901.98	-3363.88
13. Maharashtra	33209.18	31234.60	1974.58	958.27	1016.31	851.36	164.95
14. Meghalaya	490.70	476.74	13.96	28.53	-14.57	39.38	-53.95
15. Punjab	13234.28	14123.80	-889.52	802.27	-1691.79	1783.33	-3475.12
16. Rajasthan	12855.99	17917.87	-5061.88	569.05	-5630.93	3497.31	-9128.24
17. Tamil Nadu	23260.16	27548.96	-4288.80	926.10	-5214.90	3656.75	-8871.65
18. Uttar Pradesh	19078.00	19900.00	-822.00	644.04	-1466.04	2145.76	-3611.80
19. Uttrakhand	2474.74	2752.17	-277.43	82.02	-359.45	90.86	-450.31
20. West Bengal	10050.16	9003.29	1046.87	305.86	741.01	545.40	195.61
Sub-Total-I (SPUs)	220667.89	232354.90	-11687.00	9674.14	-21361.14	19498.76	-40859.90
II. ED s							
1. Arunachal Pradesh	193.33	249.06	-55.73	0.00	-55.73	17.00	-72.73
2. Goa	1072.00	872.90	199.10	19.72	179.38	10.40	168.98
3. Manipur	109.67	236.63	-126.96	34.48	-161.44	11.51	-172.95
4. Mizoram	80.01	185.51	-105.50	0.00	-105.50	44.82	-150.32
5. Nagaland	103.83	202.89	-99.06	16.83	-115.89	17.92	-133.81
6. Pondicherry	714.08	811.83	-97.75	22.66	-120.41	0.00	-120.41
7. Sikkim	149.78	123.86	25.92	0.00	25.92	0.00	25.92
8. Tripura	343.84	395.73	-51.89	34.00	-85.89	0.00	-85.89
Sub-Total-II (EDs)	2766.53	3078.41	-311.88	127.69	-439.57	101.65	-541.22
Grand Total: (I+II)	223434.43	235433.31	-11998.88	9801.83	-21800.71	19600.41	-41401.12

Annexure 4.31 (e)

Commercial Losses for the Year 2011-12 (A.P)

(Rs.Crore)

	Total Revenue 2011-12	Revenue Expenditure	Gross Operating Surplus	Depriciation	Net Operating Surplus	Total Interest Payable	Commercial Profit/Loss
I. SPU's							
1. Andhra Pradesh	21971.49	26659.80	-4688.31	1053.71	-5742.02	721.10	-6463.12
2. Assam	2485.30	2280.44	204.86	230.93	-26.07	196.52	-222.59
3. Bihar	4021.93	4472.68	-450.75	82.00	-532.75	1255.67	-1788.42
4. Chhatishgarh	5142.77	5742.97	-600.20	137.96	-738.16	162.47	-900.63
5. Gujarat	22294.00	18911.00	3383.00	1716.00	1667.00	1025.00	642.00
6. Haryana	15375.10	15335.18	39.92	317.44	-277.52	1746.74	-2024.25
7. Himachal Pradesh	4172.55	3735.68	436.87	123.70	313.17	197.97	115.20
8. Jammu & Kashmir	1248.39	3098.66	-1850.27	105.14	-1955.41	12.99	-1968.40
9. Jharkhand	4292.10	3645.73	646.38	68.42	577.96	477.35	100.60
10. Karnataka	19296.84	17321.69	1975.15	566.62	1408.53	1023.37	385.16
11. Kerala	7739.52	6478.14	1261.38	550.00	711.38	350.01	361.37
12. Madhya Pradesh	12110.54	12834.43	-723.89	1260.80	-1984.69	1145.62	-3130.31
13. Maharashtra	42423.82	39828.08	2595.74	1122.28	1473.46	1323.92	149.54
14. Meghalaya	632.96	511.38	121.58	45.42	76.16	69.66	6.50
15. Punjab	14718.54	15878.60	-1160.06	891.92	-2051.98	2178.45	-4230.43
16. Rajasthan	14231.46	19534.91	-5303.45	668.16	-5971.61	4266.50	-10238.11
17. Tamil Nadu	26498.49	29304.77	-2806.28	972.41	-3778.69	4365.22	-8143.91
18. Uttar Pradesh	26723.00	22967.00	3756.00	795.28	2960.72	2355.84	604.88
19. Uttrakhand	2738.20	3364.83	-626.63	100.44	-727.07	103.88	-830.95
20. West Bengal	10941.12	9844.12	1097.00	321.06	775.94	571.52	204.42
Sub-Total-I (SPUs)	259058.12	261750.09	-2691.96	11129.69	-13821.65	23549.80	-37371.45
II. EDs							
1. Arunachal Pradesh	225.74	279.63	-53.89	0.00	-53.89	19.00	-72.89
2. Goa	1273.00	1083.66	189.34	20.70	168.64	10.00	158.64
3. Manipur	118.54	262.80	-144.26	34.48	-178.74	11.51	-190.25
4. Mizoram	91.79	196.20	-104.41	0.00	-104.41	38.09	-142.50
5. Nagaland	112.06	206.38	-94.32	16.83	-111.15	17.92	-129.07
6. Pondicherry	833.48	846.85	-13.37	23.82	-37.19	0.00	-37.19
7. Sikkim	175.94	150.00	25.94	0.00	25.94	0.00	25.94
8. Tripura	399.02	437.06	-38.04	39.10	-77.14	0.00	-77.14
Sub-Total-II(EDs)	3229.57	3462.57	-233.01	134.93	-367.94	96.52	-464.46
Grand Total: (I+II)	262287.69	265212.66	-2924.97	11264.62	-14189.59	23646.32	-37835.91

COMMERCIAL PROFIT/LOSS**(without subsidy)**

(Rs.Crore)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU					
1. Andhra Pradesh	-2937.55	-8152.74	-6832.94	-6611.68	-6463.12
2. Assam	-139.42	-121.69	-290.19	-418.22	-222.59
3. Bihar	-1670.55	-1934.86	-2415.78	-2621.87	-2868.42
4. Chhatisgarh	424.38	794.25	-483.27	-895.77	-1102.73
5. Delhi	-222.00	121.00	615.00		
6. Gujarat	-976.00	-950.00	-715.00	-587.00	-458.00
7. Haryana	-3098.96	-4018.50	-4963.64	-5222.06	-5449.22
8. Himachal Pradesh	-25.38	32.29	-153.02	-125.56	115.20
9. Jammu & Kashmir	-1312.52	-1316.44	-1540.58	-1949.71	-1968.40
10. Jharkhand	-970.47	-1220.79	-1662.20	-1014.40	-1099.40
11. Karnataka	-1714.18	-3099.32	-1737.98	-1361.71	-1172.89
12. Kerala	217.42	217.42	240.73	286.99	361.37
13. Madhya Pradesh	-2598.24	-3166.38	-4944.92	-4796.88	-4585.31
14. Maharashtra	40.12	-1381.16	-1022.97	164.95	149.54
15. Meghalaya	-40.58	55.79	32.38	-67.64	-7.50
16. Orissa	-114.00	-148.00	-172.00		
17. Punjab	-4459.41	-3894.35	-4445.79	-6602.51	-4230.43
18. Rajasthan	-3949.15	-7835.98	-10808.38	-10379.58	-11585.94
19. Tamil Nadu	-4969.10	-9600.00	-11352.42	-10940.20	-10426.06
20. Uttar Pradesh	-4969.13	-6643.26	-6786.38	-5651.80	-3390.12
21. Uttrakhand	-243.05	-354.58	-390.69	-450.31	-830.95
22. West Bengal	102.11	48.54	100.75	195.61	204.42
Sub-total I	-33625.65	-52568.76	-59729.30	-59049.35	-55030.55
II. EDs					
1. Arunachal Pradesh	-82.58	-48.09	-33.39	-72.73	-72.89
2. Goa	139.04	225.27	182.11	168.98	158.64
3. Manipur	-93.37	-113.48	-105.71	-172.95	-190.25
4. Mizoram	-44.00	-74.02	-130.81	-150.32	-142.50
5. Nagaland	-81.26	-66.27	-111.40	-133.81	-129.07
6. Pondicherry	20.80	-80.46	-47.21	-120.41	-37.19
7. Sikkim	90.61	143.98	132.44	25.92	25.94
8. Tripura	-21.84	37.59	-47.77	-106.75	-102.58
Sub-total II	-72.60	24.52	-161.74	-562.08	-489.90
Total	-33698.25	-52544.24	-59891.04	-59611.43	-55520.45

Annexure 4.33

SUBSIDY FOR AGRICULTURAL CONSUMERS

(Rs.Crore)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's					
1. Andhra Pradesh	4868	6807	7176	6920	7336
2. Assam	1	1	2	8	5
3. Bihar	397	488	521	627	700
4. Chhatishgarh	197	513	503	528	617
5. Gujarat	3049	3128	3390	3451	3637
6. Haryana	3122	3699	4980	4224	4780
7. Himachal Pradesh	6	5	14	16	18
8. Jammu & Kashmir	95	108	152	186	189
9. Jharkhand	39	42	40	45	49
10. Karnataka	3280	3869	3134	3141	3300
11. Kerala	62	72	94	88	101
12. Madhya Pradesh	2190	1803	1889	2247	1964
13. Maharashtra	2928	3259	3749	3654	4632
14. Meghalaya	0	0	0	0	0
15. Punjab	4054	3790	4404	4735	2499
16. Rajasthan	3024	4934	6729	6926	7741
17. Tamil Nadu	4422	5458	6136	5924	6162
18. Uttar Pradesh	1526	1956	2171	1940	1701
19. Uttrakhand	62	64	70	65	83
20. West Bengal	258	271	400	322	356
Sub-total I	33535	39623	45005	44773	45733
II. EDs					
1. Arunachal Pradesh	0	0	0	0	0
2. Goa	1	2	3	3	4
3. Manipur	0	0	0	0	0
4. Mizoram	0	0	0	1	1
5. Nagaland	0	0	0	0	0
6. Pondicherry	20	16	22	27	26
7. Sikkim	0	0	0	0	0
8. Tripura	5	7	10	2	2
Sub-total II	31	27	39	36	38
Total	33363	39391	44738	44599	45561

**SUBSIDY FOR AGRICULTURAL SALES
AFTER INTRODUCTION OF 50 PAISE/KWH**

(Rs.Crore)

SPUs	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
1. Andhra Pradesh	4247	6128	6428	6332	6963
2. Assam	1	1	2	8	5
3. Bihar	397	488	521	627	700
4. Chhatisgarh	197	513	503	528	617
5. Gujarat	3049	3128	3390	3451	3637
6. Haryana	3032	3627	4850	4097	4660
7. Himachal Pradesh	6	5	12	14	16
8. Jammu & Kashmir	95	108	152	186	189
9. Jharkhand	39	42	40	45	49
10. Karnataka	3280	3869	3134	3141	3300
11. Kerala	62	72	94	88	101
12. Madhya Pradesh	2190	1803	1889	2247	1964
13. Maharashtra	2928	3259	3749	3654	4632
14. Meghalaya	0	0	0	0	0
15. Punjab	3571	3323	3873	4735	2499
16. Rajasthan	3024	4934	6729	6926	7741
17. Tamil Nadu	3867	4888	5515	5345	5563
18. Uttar Pradesh	1526	1956	2171	1940	1701
19. Uttrakhand	62	64	70	65	83
20. West Bengal	258	271	400	322	356
Sub-total I	33535	39623	45005	44773	45733
II. EDs					
1. Arunachal Pradesh	0	0	0	0	0
2. Goa	1	2	3	3	4
3. Manipur	0	0	0	0	0
4. Mizoram	0	0	0	1	1
5. Nagaland	0	0	0	0	0
6. Pondicherry	16	13	18	23	22
7. Sikkim	0	0	0	0	0
8. Tripura	5	7	10	2	2
Sub-total II	31	27	39	36	38
Total	33363	39391	44738	44599	45561

Annexure 4.35

SUBSIDY RECEIVED FROM STATE GOVERNMENT

(Rs.crore)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU					
1. Andhra Pradesh	2866.39	7979.56	6709.10	0.00	0.00
2. Assam	0.00	0.00	0.00	212.00	0.00
3. Bihar	720.00	720.00	840.00	1080.00	1080.00
4. Chhatisgarh	40.00	52.00	150.10	202.10	202.10
5. Gujarat	1100.00	1100.00	1100.00	1100.00	1100.00
6. Haryana	2276.35	2636.98	3288.72	3424.97	3424.97
7. Himachal Pradesh	0.00	0.02	0.20	0.00	0.00
8. Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00
9. Jharkhand	209.18	1080.00	1174.20	700.00	1200.00
10. Karnataka	1747.51	1490.35	1480.08	1536.41	1558.05
11. Kerala	0.00	0.00	0.00	0.00	0.00
12. Madhya Pradesh	617.00	906.34	1283.63	1433.00	1455.00
13. Maharashtra	0.00	0.00	400.00	0.00	0.00
14. Meghalaya	32.80	11.70	12.31	13.69	14.00
15. Punjab	2848.04	2601.73	3144.25	3127.39	0.00
16. Rajasthan	1246.08	1092.69	1352.70	1251.34	1347.83
17. Tamil Nadu	1457.02	1831.61	1672.17	2068.55	2282.15
18. Uttar Pradesh	1822.00	1532.00	1832.00	2040.00	3995.00
19. Uttrakhand	0.00	0.00	0.00	0.00	0.00
20. West Bengal	0.00	0.00	0.00	0.00	0.00
Sub-Total :(I)	16982.37	23034.98	24439.46	18189.45	17659.10
II. EDs					
1. Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00
2. Goa	0.00	0.00	0.00	0.00	0.00
3. Manipur	0.00	0.00	0.00	0.00	0.00
4. Mizoram	0.00	0.00	0.00	0.00	0.00
5. Nagaland	0.00	0.00	0.00	0.00	0.00
6. Pondicherry	0.00	0.00	0.00	0.00	0.00
7. Sikkim	0.00	0.00	0.00	0.00	0.00
8. Tripura	50.00	14.44	14.44	20.86	25.44
Sub-Total :(II)	50.00	14.44	14.44	20.86	25.44
Total (I+II) :	17032.37	23049.42	24453.90	18210.31	17684.54

SUBSIDY FOR DOMESTIC CONSUMERS

(Rs.Crore)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's					
1. Andhra Pradesh	974.62	2101.64	1830.30	1546.19	1670.73
2. Assam	206.03	252.41	327.91	439.16	346.16
3. Bihar	824.21	902.27	1058.99	1228.85	1360.24
4. Chhatisgarh	151.66	271.14	456.74	639.87	732.73
5. Gujarat	451.12	485.40	410.64	356.10	392.26
6. Haryana	416.62	773.02	1096.46	1174.90	1035.96
7. Himachal Pradesh	146.43	175.13	210.35	208.09	221.05
8. Jammu & Kashmir	576.26	750.17	694.25	865.07	881.95
9. Jharkhand	707.47	894.98	1167.02	1178.06	1563.60
10. Karnataka	361.06	665.65	517.63	831.64	941.53
11. Kerala	1129.39	1570.28	1925.87	1696.28	2053.48
12. Madhya Pradesh	611.61	769.89	1215.90	1046.29	1208.98
13. Maharashtra	975.05	1117.05	765.76	651.50	742.67
14. Meghalaya	25.25	19.56	36.14	48.89	35.55
15. Punjab	1006.88	956.14	904.57	1475.51	1296.70
16. Rajasthan	733.55	1277.96	1756.04	1666.52	1854.13
17. Tamil Nadu	3125.80	4332.46	5014.36	5477.36	5796.15
18. Uttar Pradesh	2993.51	3825.44	4152.58	3058.97	2399.70
19. Uttrakhand	141.29	216.43	245.65	267.64	374.38
20. West Bengal	313.29	976.40	538.88	426.75	397.33
SUB-TOTAL I	16333.42	22685.12	24478.88	23690.44	24582.92
II. EDs					
1. Arunachal Pradesh	10.77	7.42	1.90	6.38	3.86
2. Goa	45.05	62.44	67.97	75.17	98.57
3. Manipur	38.39	62.92	56.81	81.38	89.34
4. Mizoram	27.30	43.59	87.27	107.85	98.77
5. Nagaland	38.20	37.74	72.38	80.40	78.53
6. Pondicherry	64.30	92.46	92.05	138.10	130.73
7. Sikkim	5.52	3.26	6.32	1.47	2.15
8. Tripura	15.17	21.90	33.93	34.19	46.35
Sub-total II	202.93	266.53	311.19	394.38	417.02
Total	15766.51	21918.49	23744.00	24092.82	25006.02

Annexure 4.37

SUBSIDY FOR INTER-STATE SALES

(Rs.Crore)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's					
1. Andhra Pradesh	-84.03	176.43	304.10	-425.24	-490.30
2. Assam	79.62	-15.55	50.52	2.61	-9.70
3. Bihar	136.39	38.53	186.94	168.95	195.52
4. Chhatisgarh	-249.96	-702.83	-154.69	-167.62	-1.90
5. Gujarat	-129.61	-322.01	-190.42	195.18	364.90
6. Haryana	0.00	238.20	113.63	90.30	302.49
7. Himachal Pradesh	-159.43	-296.06	-244.83	-232.02	-474.25
8. Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00
9. Jharkhand	1.54	1.71	1.80	0.47	1.18
10. Karnataka	0.00	0.00	0.00	0.00	0.00
11. Kerala	-428.50	-227.18	-30.93	0.00	0.00
12. Madhya Pradesh	-38.15	-167.19	68.30	0.00	0.00
13. Maharashtra	0.00	0.00	0.00	0.00	0.00
14. Meghalaya	-0.57	-22.85	8.84	41.25	66.36
15. Punjab	-166.00	-376.33	179.02	87.95	60.78
16. Rajasthan	98.69	152.58	206.89	178.82	171.19
17. Tamil Nadu	-29.58	61.39	308.58	100.50	102.45
18. Uttar Pradesh	0.00	0.00	0.00	0.00	0.00
19. Uttrakhand	0.09	0.08	-0.15	0.00	0.00
20. West Bengal	-227.95	-403.83	61.32	156.38	65.90
Sub-total I	-1163.48	-1383.69	1306.17	297.89	223.12
II. EDs					
1. Arunachal Pradesh	47.86	28.21	30.22	56.69	64.98
2. Goa	-33.35	-139.78	-73.03	-53.38	-97.14
3. Manipur	39.84	20.36	24.24	38.65	42.73
4. Mizoram	13.08	17.32	16.12	10.24	17.61
5. Nagaland	28.49	18.92	17.15	26.74	22.80
6. Pondicherry	-28.43	-29.77	-28.44	3.88	2.39
7. Sikkim	-106.40	-149.12	-153.28	-21.42	-25.14
8. Tripura	0.98	-71.17	0.54	81.26	53.13
Sub-Total :(II)	-125.01	-343.15	-184.65	112.25	57.00
Total	-1124.41	-1529.03	1332.67	587.01	460.97

Annexure 4.38 (a)

Uncovered Subsidy for 2007-08

(Rs. crore)

	Subsidy Agri.	Subsidy Domestic	Subsidy Interstate	Gross Subsidy	Subvention from the State	Net Subsidy	Surplus from Other Users	Uncovered Subsidy
I. SPU's								
1. Andhra Pradesh	4867.65	974.62	-84.03	5758.24	2866.39	2891.85	1702.87	1188.98
2. Assam	1.23	206.03	79.62	286.89	0.00	286.89	13.72	273.17
3. Bihar	397.02	824.21	136.39	1357.62	720.00	637.62	-436.97	1074.59
4. Chhatisgarh	197.40	151.66	-249.96	99.10	40.00	59.10	311.44	-252.34
5. Gujarat	3049.34	451.12	-129.61	3370.85	1100.00	2270.85	1136.85	1134.00
6. Haryana	3122.16	416.62	0.00	3538.78	2276.35	1262.43	100.94	1161.49
7. Himachal Pradesh	6.24	146.43	-159.43	-6.77	0.00	-6.77	-165.57	158.80
8. Jammu & Kashmir	94.97	576.26	0.00	671.23	0.00	671.23	-643.23	1314.46
9. Jharkhand	39.09	707.47	1.54	748.09	209.18	538.91	-560.34	1099.26
10. Karnataka	3279.59	361.06	0.00	3640.64	1747.51	1893.13	1521.26	371.88
11. Kerala	61.90	1129.39	-428.50	762.80	0.00	762.80	450.05	312.75
12. Madhya Pradesh	2189.90	611.61	-38.15	2763.37	617.00	2146.37	-403.99	2550.36
13. Maharashtra	2928.38	975.05	0.00	3903.44	0.00	3903.44	1193.81	2709.63
14. Meghalaya	0.11	25.25	-0.57	24.80	32.80	-8.00	-48.17	40.17
15. Punjab	4054.42	1006.88	-166.00	4895.29	2848.04	2047.25	-482.77	2530.02
16. Rajasthan	3024.19	733.55	98.69	3856.42	1246.08	2610.34	-470.58	3080.93
17. Tamil Nadu	4422.41	3125.80	-29.58	7518.63	1457.02	6061.61	2170.97	3890.64
18. Uttar Pradesh	1526.15	2993.51	0.00	4519.66	1822.00	2697.66	-720.47	3418.13
19. Uttrakhand	61.61	141.29	0.09	203.00	0.00	203.00	-28.31	231.31
20. West Bengal	257.82	313.29	-227.95	343.17	0.00	343.17	382.27	-39.10
Sub-total I	33535.47	16333.42	-1163.48	48705.41	16982.37	31723.04	4571.37	27151.66
II. EDs								
1. Arunachal Pradesh	0.00	10.77	47.86	58.63	0.00	58.63	-24.15	82.78
2. Goa	1.46	45.05	-33.35	13.16	0.00	13.16	135.30	-122.14
3. Manipur	0.03	38.39	39.84	78.26	0.00	78.26	-15.18	93.44
4. Mizoram	0.00	27.30	13.08	40.38	0.00	40.38	-5.06	45.44
5. Nagaland	0.00	38.20	28.49	66.69	0.00	66.69	-14.97	81.66
6. Pondicherry	19.79	64.30	-28.43	55.66	0.00	55.66	73.77	-18.11
7. Sikkim	0.00	5.52	-106.40	-100.88	0.00	-100.88	-10.27	-90.61
8. Tripura	4.81	15.17	0.98	20.96	50.00	-29.04	-5.34	-23.70
Sub-Total :(II)	31.15	202.93	-125.01	109.08	50.00	59.08	10.32	48.75
Total	33362.98	15766.51	-1124.41	48005.08	17032.37	30972.71	8962.05	22010.66

Annexure 4.38 (b)

Uncovered Subsidy for 2008-09

(Rs. crore)

	Subsidy Agri.	Subsidy Domestic	Subsidy Interstate	Gross Subsidy	Subvention from the State	Net Subsidy	Surplus from Other Users	Uncovered Subsidy
I. SPU's								
1. Andhra Pradesh	6807.41	2101.64	176.43	9085.48	7979.56	1105.92	-163.91	1269.83
2. Assam	1.45	252.41	-15.55	238.31	0.00	238.31	42.63	195.68
3. Bihar	487.66	902.27	38.53	1428.47	720.00	708.47	-596.14	1304.61
4. Chhatisgarh	512.91	271.14	-702.83	81.22	52.00	29.22	688.71	-659.49
5. Gujarat	3128.32	485.40	-322.01	3291.71	1100.00	2191.71	1297.71	894.00
6. Haryana	3698.84	773.02	238.20	4710.07	2636.98	2073.08	63.93	2009.15
7. Himachal Pradesh	4.74	175.13	-296.06	-116.18	0.02	-116.20	-224.82	108.62
8. Jammu & Kashmir	107.83	750.17	0.00	858.00	0.00	858.00	-710.59	1568.59
9. Jharkhand	41.75	894.98	1.71	938.43	1080.00	-141.57	-609.32	467.75
10. Karnataka	3868.78	665.65	0.00	4534.43	1490.35	3044.08	857.12	2186.96
11. Kerala	72.38	1570.28	-227.18	1415.49	0.00	1415.49	426.98	988.51
12. Madhya Pradesh	1802.83	769.89	-167.19	2405.53	906.34	1499.19	-1331.50	2830.69
13. Maharashtra	3258.89	1117.05	0.00	4375.94	0.00	4375.94	1679.39	2696.55
14. Meghalaya	0.10	19.56	-22.85	-3.19	11.70	-14.89	9.00	-23.89
15. Punjab	3790.42	956.14	-376.33	4370.24	2601.73	1768.51	-139.52	1908.03
16. Rajasthan	4934.41	1277.96	152.58	6364.95	1092.69	5272.26	-2214.69	7486.95
17. Tamil Nadu	5457.92	4332.46	61.39	9851.77	1831.61	8020.16	-134.87	8155.03
18. Uttar Pradesh	1956.47	3825.44	0.00	5781.92	1532.00	4249.92	-1160.34	5410.26
19. Uttrakhand	64.07	216.43	0.08	280.58	0.00	280.58	-113.44	394.02
20. West Bengal	271.49	976.40	-403.83	844.06	0.00	844.06	-912.49	1756.55
Sub-total I	39623.31	22685.12	-1383.69	60924.74	23034.98	37889.75	-3612.19	41501.95
II. EDs								
1. Arunachal Pradesh	0.00	7.42	28.21	35.63	0.00	35.63	-12.71	48.34
2. Goa	1.67	62.44	-139.78	-75.67	0.00	-75.67	126.10	-201.77
3. Manipur	0.06	62.92	20.36	83.34	0.00	83.34	-30.81	114.16
4. Mizoram	0.00	43.59	17.32	60.91	0.00	60.91	-14.76	75.66
5. Nagaland	0.00	37.74	18.92	56.66	0.00	56.66	-10.01	66.67
6. Pondicherry	15.60	92.46	-29.77	78.29	0.00	78.29	-6.03	84.32
7. Sikkim	0.00	3.26	-149.12	-145.86	0.00	-145.86	-1.88	-143.98
8. Tripura	7.44	21.90	-71.17	-41.83	14.44	-56.27	-8.92	-47.35
Sub-Total :(II)	27.33	266.53	-343.15	-49.28	14.44	-63.72	-59.77	-3.95
Total	39391.39	21918.49	-1529.03	59780.86	23049.42	36731.43	-3694.07	40425.50

Annexure 4.38 (c)

Uncovered Subsidy for 2009-10

(Rs. crore)

	Subsidy Agri.	Subsidy Domestic	Subsidy Interstate	Gross Subsidy	Subvention from the State	Net Subsidy	Surplus from Other Users	Uncovered Subsidy
I. SPU								
1. Andhra Pradesh	7176.10	1830.30	304.10	9310.50	6709.10	2601.40	892.69	1708.71
2. Assam	1.88	327.91	50.52	380.30	0.00	380.30	-20.91	401.21
3. Bihar	521.30	1058.99	186.94	1767.23	840.00	927.23	-765.95	1693.18
4. Chhatisgarh	502.51	456.74	-154.69	804.57	150.10	654.47	97.43	557.04
5. Gujarat	3389.57	410.64	-190.42	3609.78	1100.00	2509.78	2013.78	496.00
6. Haryana	4980.22	1096.46	113.63	6190.31	3288.72	2901.59	445.51	2456.07
7. Himachal Pradesh	14.00	210.35	-244.83	-20.49	0.20	-20.69	-359.01	338.32
8. Jammu & Kashmir	152.04	694.25	0.00	846.29	0.00	846.29	-194.28	1040.56
9. Jharkhand	40.19	1167.02	1.80	1209.01	1174.20	34.81	-786.84	821.65
10. Karnataka	3133.84	517.63	0.00	3651.47	1480.08	2171.39	1268.42	902.97
11. Kerala	94.40	1925.87	-30.93	1989.35	0.00	1989.35	32.81	1956.54
12. Madhya Pradesh	1888.94	1215.90	68.30	3173.14	1283.63	1889.51	-2417.15	4306.66
13. Maharashtra	3749.27	765.76	0.00	4515.03	400.00	4115.03	2345.78	1769.25
14. Meghalaya	0.18	36.14	8.84	45.17	12.31	32.86	14.19	18.67
15. Punjab	4403.95	904.57	179.02	5487.54	3144.25	2343.29	281.53	2061.76
16. Rajasthan	6728.86	1756.04	206.89	8691.79	1352.70	7339.09	-2770.12	10109.22
17. Tamil Nadu	6135.89	5014.36	308.58	11458.84	1672.17	9786.67	-301.99	10088.66
18. Uttar Pradesh	2170.66	4152.58	0.00	6323.25	1832.00	4491.25	-999.13	5490.38
19. Uttrakhand	69.90	245.65	-0.15	315.40	0.00	315.40	-67.42	382.82
20. West Bengal	399.72	538.88	61.32	999.91	0.00	999.91	109.82	890.09
Sub-total I	45005.44	24478.88	1306.17	70790.49	24439.46	46351.03	-2704.85	49055.88
II. EDs								
1. Arunachal Pradesh	0.00	1.90	30.22	32.11	0.00	32.11	-1.57	33.69
2. Goa	2.54	67.97	-73.03	-2.51	0.00	-2.51	166.89	-169.40
3. Manipur	0.31	56.81	24.24	81.36	0.00	81.36	-24.46	105.83
4. Mizoram	0.43	87.27	16.12	103.82	0.00	103.82	-28.65	132.47
5. Nagaland	0.00	72.38	17.15	89.52	0.00	89.52	-22.28	111.80
6. Pondicherry	21.58	92.05	-28.44	85.19	0.00	85.19	31.26	53.93
7. Sikkim	0.00	6.32	-153.28	-146.95	0.00	-146.95	-14.51	-132.44
8. Tripura	10.48	33.93	0.54	44.95	14.44	30.51	-7.73	38.24
Sub-Total :(II)	39.38	311.19	-184.65	165.92	14.44	151.48	-22.59	174.07
Total	44738.42	23744.00	1332.67	69815.09	24453.90	45361.19	-2780.08	48141.27

Annexure 4.38 (d)

Uncovered Subsidy for 2010-11 (R.E)

(Rs. crore)

	Subsidy Agri.	Subsidy Domestic	Subsidy Interstate	Gross Subsidy	Subvention from the State	Net Subsidy	Surplus from Other Users	Uncovered Subsidy
I. SPU								
1. Andhra Pradesh	6920.41	1546.19	-425.24	8041.36	0.00	8041.36	1062.04	6979.32
2. Assam	7.72	439.16	2.61	449.48	212.00	237.48	-51.97	289.45
3. Bihar	627.43	1228.85	168.95	2025.24	1080.00	945.24	-715.51	1660.75
4. Chhatisgarh	527.96	639.87	-167.62	1000.21	202.10	798.11	-130.62	928.73
5. Gujarat	3450.53	356.10	195.18	4001.82	1100.00	2901.82	2539.82	362.00
6. Haryana	4224.02	1174.90	90.30	5489.22	3424.97	2064.25	-154.46	2218.71
7. Himachal Pradesh	15.85	208.09	-232.02	-8.08	0.00	-8.08	-322.24	314.16
8. Jammu & Kashmir	185.57	865.07	0.00	1050.64	0.00	1050.64	-902.17	1952.81
9. Jharkhand	44.72	1178.06	0.47	1223.25	700.00	523.25	-231.90	755.16
10. Karnataka	3141.18	831.64	0.00	3972.81	1536.41	2436.40	1998.06	438.34
11. Kerala	87.80	1696.28	0.00	1784.08	0.00	1784.08	315.20	1468.88
12. Madhya Pradesh	2246.73	1046.29	0.00	3293.02	1433.00	1860.02	-2062.06	3922.08
13. Maharashtra	3654.49	651.50	0.00	4305.99	0.00	4305.99	3263.94	1042.05
14. Meghalaya	0.25	48.89	41.25	90.38	13.69	76.69	-46.96	123.65
15. Punjab	4734.71	1475.51	87.95	6298.18	3127.39	3170.79	-796.92	3967.71
16. Rajasthan	6925.72	1666.52	178.82	8771.05	1251.34	7519.71	-2381.26	9900.97
17. Tamil Nadu	5923.97	5477.36	100.50	11501.82	2068.55	9433.27	148.06	9285.21
18. Uttar Pradesh	1940.05	3058.97	0.00	4999.02	2040.00	2959.02	-1220.78	4179.80
19. Uttrakhand	65.42	267.64	0.00	333.06	0.00	333.06	-88.95	422.01
20. West Bengal	322.06	426.75	156.38	905.19	0.00	905.19	599.61	305.58
Sub-total I	44773.26	23690.44	297.89	68761.59	18189.45	50572.14	122.18	50449.96
II. EDs								
1. Arunachal Pradesh	0.00	6.38	56.69	63.08	0.00	63.08	-10.00	73.08
2. Goa	2.52	75.17	-53.38	24.31	0.00	24.31	169.02	-144.71
3. Manipur	0.09	81.38	38.65	120.11	0.00	120.11	-53.94	174.05
4. Mizoram	0.68	107.85	10.24	118.77	0.00	118.77	-33.28	152.05
5. Nagaland	0.00	80.40	26.74	107.14	0.00	107.14	-27.47	134.61
6. Pondicherry	27.26	138.10	3.88	169.24	0.00	169.24	42.08	127.16
7. Sikkim	0.00	1.47	-21.42	-19.95	0.00	-19.95	5.97	-25.92
8. Tripura	2.09	34.19	81.26	117.53	20.86	96.67	6.78	89.89
Sub-Total :(II)	36.22	394.38	112.25	542.85	20.86	521.99	-58.14	580.13
Total	44599.07	24092.82	587.01	69278.90	18210.31	51068.59	38.50	51030.09

Annexure 4.38 (e)

Uncovered Subsidy for 2011-12

(Rs. crore)

	Subsidy Agri.	Subsidy Domestic	Subsidy Interstate	Gross Subsidy	Subvention from the State	Net Subsidy	Surplus from	Uncovered Subsidy
							Other Users	
I. SPU's								
1. Andhra Pradesh	7335.63	1670.73	-490.30	8516.06	0.00	8516.06	1663.60	6852.46
2. Assam	4.84	346.16	-9.70	341.30	0.00	341.30	57.94	283.36
3. Bihar	699.58	1360.24	195.52	2255.34	1080.00	1175.34	-753.08	1928.42
4. Chhatisgarh	617.39	732.73	-1.90	1348.22	202.10	1146.12	-1.32	1147.44
5. Gujarat	3636.84	392.26	364.90	4394.00	1100.00	3294.00	2922.00	372.00
6. Haryana	4780.42	1035.96	302.49	6118.87	3424.97	2693.90	-31.34	2725.25
7. Himachal Pradesh	17.66	221.05	-474.25	-235.54	0.00	-235.54	-319.63	84.09
8. Jammu & Kashmir	189.44	881.95	0.00	1071.39	0.00	1071.39	-900.31	1971.70
9. Jharkhand	49.01	1563.60	1.18	1613.78	1200.00	413.78	-43.20	456.99
10. Karnataka	3299.50	941.53	0.00	4241.03	1558.05	2682.98	2411.48	271.50
11. Kerala	101.04	2053.48	0.00	2154.52	0.00	2154.52	52.62	2101.90
12. Madhya Pradesh	1963.63	1208.98	0.00	3172.61	1455.00	1717.61	-2043.93	3761.54
13. Maharashtra	4632.35	742.67	0.00	5375.02	0.00	5375.02	4196.86	1178.16
14. Meghalaya	0.23	35.55	66.36	102.14	14.00	88.14	17.97	70.17
15. Punjab	2499.02	1296.70	60.78	3856.50	0.00	3856.50	-876.70	4733.20
16. Rajasthan	7741.43	1854.13	171.19	9766.75	1347.83	8418.92	-2657.92	11076.84
17. Tamil Nadu	6161.71	5796.15	102.45	12060.32	2282.15	9778.17	1193.88	8584.29
18. Uttar Pradesh	1700.52	2399.70	0.00	4100.22	3995.00	105.22	108.10	-2.88
19. Uttrakhand	83.44	374.38	0.00	457.82	0.00	457.82	-340.75	798.57
20. West Bengal	355.72	397.33	65.90	818.95	0.00	818.95	925.72	-106.77
Sub-total I	45733.49	24582.92	223.12	70539.53	17659.10	52880.43	4800.78	48079.64
II. EDs								
1. Arunachal Pradesh	0.00	3.86	64.98	68.84	0.00	68.84	-4.45	73.29
2. Goa	3.96	98.57	-97.14	5.40	0.00	5.40	133.34	-127.94
3. Manipur	0.10	89.34	42.73	132.17	0.00	132.17	-59.19	191.36
4. Mizoram	0.78	98.77	17.61	117.16	0.00	117.16	-27.13	144.29
5. Nagaland	0.00	78.53	22.80	101.32	0.00	101.32	-28.55	129.87
6. Pondicherry	26.42	130.73	2.39	159.53	0.00	159.53	115.02	44.51
7. Sikkim	0.00	2.15	-25.14	-22.99	0.00	-22.99	2.95	-25.94
8. Tripura	1.80	46.35	53.13	101.28	25.44	75.84	-4.84	80.68
Sub-Total : (II)	37.78	417.02	57.00	511.80	25.44	486.36	-23.76	510.12
Total	45560.86	25006.02	460.97	71027.84	17684.54	53343.30	4753.54	48589.76

Annexure 4.39

**SUBSIDY TO SALES REVENUE RATIO
(WITH CROSS SUBSIDISATION)**

(%)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's					
1. Andhra Pradesh	32.34	68.30	53.83	37.78	31.75
2. Assam	18.78	11.77	26.30	26.71	11.69
3. Bihar	124.77	122.02	137.79	110.95	107.37
4. Chhatishgarh	-5.71	-11.97	18.49	27.38	28.75
5. Gujarat	16.13	11.11	8.75	7.76	7.29
6. Haryana	68.54	72.79	73.71	59.39	53.72
7. Himachal Pradesh	7.16	3.85	11.79	9.28	2.11
8. Jammu & Kashmir	154.85	189.07	112.11	166.25	158.36
9. Jharkhand	94.05	104.14	131.60	72.63	65.38
10. Karnataka	23.13	37.61	20.83	13.05	10.71
11. Kerala	6.66	20.20	41.21	29.65	39.84
12. Madhya Pradesh	48.58	54.12	78.82	60.95	52.04
13. Maharashtra	13.44	11.48	7.85	3.26	2.87
14. Meghalaya	23.15	-3.14	7.54	33.72	15.52
15. Punjab	70.17	51.73	62.38	73.80	33.30
16. Rajasthan	55.69	102.02	122.83	102.96	103.15
17. Tamil Nadu	34.12	64.74	70.15	54.64	45.70
18. Uttar Pradesh	52.63	64.74	53.81	37.76	18.04
19. Uttrakhand	19.72	24.65	18.36	17.28	29.54
20. West Bengal	-0.69	25.57	11.36	3.20	-0.98
Average of SEBs	32.26	41.75	43.28	35.60	28.50
II. EDs					
1. Arunachal Pradesh	77.42	32.90	20.31	37.87	32.53
2. Goa	-15.67	-20.93	-16.65	-13.81	-10.29
3. Manipur	90.99	93.39	106.08	160.32	162.95
4. Mizoram	55.79	88.55	200.65	194.04	160.07
5. Nagaland	110.10	55.22	123.44	130.65	116.73
6. Pondicherry	-3.18	15.54	9.71	17.98	5.39
7. Sikkim	-39.52	-48.16	-42.34	-17.31	-14.74
8. Tripura	10.31	-9.77	20.10	34.72	28.74
Average of EDs	4.49	0.40	7.33	22.20	16.95
All India Average	28.09	40.38	42.12	35.41	28.35

**SUBSIDY TO SALES REVENUE RATIO
(WITHOUT CROSS SUBSIDISATION)**

(%)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU s					
1. Andhra Pradesh	45.92	67.09	59.54	43.53	39.46
2. Assam	19.72	14.33	24.93	23.94	14.08
3. Bihar	94.39	86.09	96.12	81.99	80.49
4. Chhatisgarh	2.66	1.60	21.03	24.22	28.72
5. Gujarat	24.33	18.34	19.79	21.24	21.77
6. Haryana	70.55	73.79	79.43	57.76	53.44
7. Himachal Pradesh	-0.30	-4.11	-0.71	-0.24	-5.91
8. Jammu & Kashmir	79.08	103.42	91.18	89.45	86.05
9. Jharkhand	53.77	63.14	79.72	61.06	63.67
10. Karnataka	39.72	46.38	31.92	26.25	24.83
11. Kerala	16.24	28.93	41.91	36.01	40.83
12. Madhya Pradesh	42.38	34.83	44.74	37.48	31.65
13. Maharashtra	19.36	18.63	16.33	13.46	13.08
14. Meghalaya	7.87	-0.82	10.99	22.19	18.83
15. Punjab	63.87	50.13	65.76	65.51	27.13
16. Rajasthan	49.63	75.69	93.15	80.97	81.09
17. Tamil Nadu	47.97	63.87	68.35	55.36	50.72
18. Uttar Pradesh	45.39	53.92	46.47	30.35	18.53
19. Uttrakhand	17.31	17.55	15.12	13.64	16.94
20. West Bengal	6.08	12.29	12.76	9.48	7.55
Average of SPU s	35.60	39.42	41.69	35.66	30.59
II. ED s					
1. Arunachal Pradesh	54.83	24.25	19.36	32.69	30.55
2. Goa	1.69	-7.85	-0.25	2.32	0.43
3. Manipur	76.21	68.18	81.56	110.63	112.55
4. Mizoram	49.58	71.28	157.26	151.57	129.97
5. Nagaland	89.91	46.93	98.85	103.99	91.07
6. Pondicherry	9.77	14.43	15.33	23.93	19.30
7. Sikkim	-44.00	-48.79	-46.98	-13.32	-13.07
8. Tripura	8.22	-12.41	17.15	36.85	27.43
Average of ED s	4.96	-1.88	6.46	20.06	16.20
All India Average	34.54	38.03	40.50	35.43	30.38

Annexure 4.41

SURPLUS GENERATED BY SALES TO OTHER SECTORS

(Rs.crore)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's					
1. Andhra Pradesh	1702.87	-163.91	892.69	1062.04	1663.60
2. Assam	13.72	42.63	-20.91	-51.97	57.94
3. Bihar	-436.97	-596.14	-765.95	-715.51	-753.08
4. Chhatisgarh	311.44	688.71	97.43	-130.62	-1.32
5. Gujarat	1136.85	1297.71	2013.78	2539.82	2922.00
6. Haryana	100.94	63.93	445.51	-154.46	-31.34
7. Himachal Pradesh	-165.57	-224.82	-359.01	-322.24	-319.63
8. Jammu & Kashmir	-643.23	-710.59	-194.28	-902.17	-900.31
9. Jharkhand	-560.34	-609.32	-786.84	-231.90	-43.20
10. Karnataka	1521.26	857.12	1268.42	1998.06	2411.48
11. Kerala	450.05	426.98	32.81	315.20	52.62
12. Madhya Pradesh	-403.99	-1331.50	-2417.15	-2062.06	-2043.93
13. Maharashtra	1193.81	1679.39	2345.78	3263.94	4196.86
14. Meghalaya	-48.17	9.00	14.19	-46.96	17.97
15. Punjab	-482.77	-139.52	281.53	-796.92	-876.70
16. Rajasthan	-470.58	-2214.69	-2770.12	-2381.26	-2657.92
17. Tamil Nadu	2170.97	-134.87	-301.99	148.06	1193.88
18. Uttar Pradesh	-720.47	-1160.34	-999.13	-1220.78	108.10
19. Uttrakhand	-28.31	-113.44	-67.42	-88.95	-340.75
20. West Bengal	382.27	-912.49	109.82	599.61	925.72
Sub-total I	4571.37	-3612.19	-2704.85	122.18	4800.78
II. EDs					
1. Arunachal Pradesh	-24.15	-12.71	-1.57	-10.00	-4.45
2. Goa	135.30	126.10	166.89	169.02	133.34
3. Manipur	-15.18	-30.81	-24.46	-53.94	-59.19
4. Mizoram	-5.06	-14.76	-28.65	-33.28	-27.13
5. Nagaland	-14.97	-10.01	-22.28	-27.47	-28.55
6. Pondicherry	73.77	-6.03	31.26	42.08	115.02
7. Sikkim	-10.27	-1.88	-14.51	5.97	2.95
8. Tripura	-5.34	-8.92	-7.73	6.78	-4.84
Sub-total II	10.32	-59.77	-22.59	-58.14	-23.76
Total	8962.05	-3694.07	-2780.08	38.50	4753.54

NET INTERNAL RESOURCES

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU s					
1. Andhra Pradesh	793.41	894.08	1126.27	-1672.07	-5114.88
2. Assam	-42.82	68.13	-106.42	-42.39	16.75
3. Bihar	-127.73	-369.84	-699.14	-565.28	-602.59
4. Chhatisgarh	566.91	994.73	65.58	157.30	-70.74
5. Gujarat	-546.00	-218.00	806.00	966.00	1088.00
6. Haryana	-568.44	-1987.12	-3242.41	-4216.15	-4279.37
7. Himachal Pradesh	-349.91	-470.92	-485.03	-715.20	-238.21
8. Jammu & Kashmir	-1617.05	-1488.07	-2288.37	-2073.15	-2040.61
9. Jharkhand	-1214.52	-60.27	-1717.12	-484.44	-95.32
10. Karnataka	1391.09	799.37	-1139.74	191.56	865.07
11. Kerala	337.48	550.02	-116.45	304.32	645.66
12. Madhya Pradesh	-1449.75	-2038.63	-3252.65	-2884.94	-2341.95
13. Maharashtra	423.52	-495.39	724.26	1395.99	718.67
14. Meghalaya	-3.73	52.42	73.00	-18.91	-21.39
15. Punjab	-1431.17	-2010.83	-1381.50	-2604.92	-3305.52
16. Rajasthan	-2800.71	-8740.65	-11209.43	-10008.42	-11583.95
17. Tamil Nadu	-3189.45	-7680.00	-8090.00	-8830.89	-7924.73
18. Uttar Pradesh	-1794.73	-1824.71	-834.14	915.47	705.68
19. Uttrakhand	51.05	-10.40	-120.82	28.51	-147.22
20. West Bengal	489.33	718.77	917.81	1085.53	1097.83
Sub-total I	-11083.21	-23317.31	-30970.30	-29072.08	-32628.82
II. ED s					
1. Arunachal Pradesh	-82.58	-48.09	-33.39	-72.73	-72.89
2. Goa	146.41	232.47	190.44	175.91	167.37
3. Manipur	-65.58	-86.15	-79.06	-144.47	-161.77
4. Mizoram	-63.50	-94.69	-198.14	-199.08	-196.84
5. Nagaland	-82.28	-70.02	-112.61	-139.51	-134.77
6. Pondicherry	33.15	-67.17	-26.10	-97.75	-13.37
7. Sikkim	-90.61	-143.98	-132.44	-25.92	-25.94
8. Tripura	57.16	83.35	-0.65	-51.89	-38.03
Sub-total II	-147.83	-194.28	-391.95	-555.44	-476.24
Total	-11231.05	-23511.59	-31362.25	-29627.52	-33105.06

Annexure 4.43

Revenue Arrears Receivable by SPUs

				(%)	(Rs.crore)
	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPUs					
1. Andhra Pradesh	638.62	651.54	668.72	NA	NA
2. Assam	455.50	364.37	592.76	628.40	615.96
3. Bihar	NA	NA	NA	NA	NA
4. Chhatisgarh	1515.86	1458.84	1418.41	NA	NA
5. Gujarat	2262.00	2407.00	2560.00	2339.00	2470.00
6. Haryana	3120.15	3721.95	3996.65	4206.09	4436.48
7. Himachal Pradesh	298.75	282.70	380.82	250.00	200.00
8. Jammu & Kashmir	0.00	972.52	987.40	NA	NA
9. Jharkhand	3576.72	3901.81	3243.49	3375.96	3244.76
10. Karnataka	5133.56	5608.05	6021.00	6402.15	6729.87
11. Kerala	1964.45	1728.97	1272.96	NA	NA
12. Madhya Pradesh	3519.54	4548.82	5477.68	NA	NA
13. Maharashtra	7876.68	10627.13	11753.24	15477.27	18519.75
14. Meghalaya	176.23	252.35	210.79	221.24	NA
15. Punjab	717.85	883.06	753.46	NA	NA
16. Rajasthan	1400.00	1504.33	1636.44	1676.55	1803.89
17. Tamil Nadu	995.77	924.25	1077.10	NA	0.00
18. Uttar Pradesh	5993.00	7783.55	9519.11	10672.00	11557.05
19. Uttrakhand	1319.59	1426.40	1544.55	1578.42	1605.45
20. West Bengal	1175.90	1166.83	1563.52	1671.49	1754.56
Sub-total I	42140.17	50214.47	54678.10	48498.57	52937.77
II. EDs					
1. Arunachal Pradesh	35.00	37.00	38.00	42.00	46.00
2. Goa	168.04	177.45	105.99	168.00	176.00
3. Manipur	199.64	263.33	256.91	315.00	330.08
4. Mizoram	81.44	85.45	66.02	78.36	90.14
5. Nagaland	21.00	23.94	25.00	32.00	34.00
6. Pondicherry	96.10	118.66	147.07	NA	NA
7. Sikkim	55.92	69.02	90.73	109.26	127.69
8. Tripura	13.74	16.89	22.16	NA	NA
Sub-total II	670.88	791.74	751.88	744.62	803.91
Total	42811.05	51006.20	55429.98	49243.19	53741.68

STATE ELECTRICITY DUTY COLLECTION

(Rs.crore)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's					
1. Andhra Pradesh	0.0	98.7	115.5	119.6	131.3
2. Assam	18.1	21.3	27.0	34.6	40.9
3. Bihar	NA	NA	58.2	68.1	86.5
4. Chhatisgarh	201.9	220.1	225.7	203.0	230.7
5. Gujarat	1189.0	1469.0	1629.0	1819.0	1953.0
6. Haryana	93.4	98.7	115.5	119.6	131.3
7. Himachal Pradesh	116.8	131.1	144.6	250.0	225.0
8. Jammu & Kashmir	99.3	108.0	120.3	199.7	211.7
9. Jharkhand	67.5	17.1	19.5	23.9	31.4
10. Karnataka	400.7	539.9	570.4	672.1	763.7
11. Kerala	215.7	227.7	258.3	288.8	319.4
12. Madhya Pradesh	693.1	684.7	0.0	0.0	0.0
13. Maharashtra	1191.6	1429.4	1406.7	1573.5	1939.3
14. Meghalaya	1.8	2.0	2.0	2.0	2.1
15. Punjab	652.2	661.2	758.6	1100.0	1200.0
16. Rajasthan	580.5	656.8	708.6	757.1	849.3
17. Tamil Nadu	0.0	0.0	0.0	0.0	0.0
18. Uttar Pradesh	259.7	286.2	317.4	307.4	382.3
19. Uttrakhand	71.5	87.2	97.6	117.6	130.8
20. West Bengal	244.7	290.0	361.7	379.7	398.6
Sub-total I	6097.70	7028.92	6936.57	8035.67	9027.01
II. EDs					
1. Arunachal Pradesh	0.0	0.0	0.0	0.0	0.0
2. Goa	11.4	67.1	101.9	100.0	100.0
3. Manipur	0.0	0.3	0.0	0.6	0.6
4. Mizoram	0.0	0.0	0.0	0.0	0.0
5. Nagaland	0.0	0.0	0.0	0.0	0.0
6. Pondicherry	0.0	0.0	0.0	0.0	0.0
7. Sikkim	0.0	0.0	0.0	0.0	0.0
8. Tripura	0.0	0.0	0.0	0.0	0.0
Sub-total II	11.4	67.5	101.9	100.6	100.6
All India Average	6109.07	7096.38	7038.49	8136.26	9127.60

Annexure 4.45

INCIDENCE OF “SED” ON SALES OF ELECTRICITY

(Paise/Kwh)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPU's					
1. Andhra Pradesh	0.00	1.83	1.93	1.82	1.77
2. Assam	5.32	6.30	8.37	8.96	8.64
3. Bihar	NA	NA	9.60	9.43	11.53
4. Chhatisgarh	18.45	14.62	16.94	14.83	15.13
5. Gujarat	28.95	34.20	36.24	38.12	38.56
6. Haryana	5.12	4.99	5.01	4.23	3.98
7. Himachal Pradesh	18.76	18.84	20.37	32.04	27.05
8. Jammu & Kashmir	29.81	30.52	31.39	45.91	45.92
9. Jharkhand	15.77	3.68	3.68	3.68	4.26
10. Karnataka	13.36	16.76	16.87	18.18	18.57
11. Kerala	16.10	17.68	18.38	20.30	21.14
12. Madhya Pradesh	32.04	31.69	0.00	0.00	0.00
13. Maharashtra	21.39	24.57	22.00	22.00	22.00
14. Meghalaya	1.73	1.94	2.06	1.92	1.56
15. Punjab	20.30	20.26	23.20	32.90	33.18
16. Rajasthan	24.54	24.65	23.16	21.69	21.53
17. Tamil Nadu	0.00	0.00	0.00	0.00	0.00
18. Uttar Pradesh	7.00	7.11	7.68	6.79	6.97
19. Uttrakhand	15.10	15.87	15.62	17.00	17.00
20. West Bengal	15.40	16.50	18.38	18.17	17.96
Average of SEBs	13.67	14.81	13.64	14.93	14.89
II. EDs					
1. Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00
2. Goa	4.35	26.22	35.42	33.17	30.25
3. Manipur	0.01	1.11	0.01	1.74	1.61
4. Mizoram	0.00	0.00	0.00	0.00	0.00
5. Nagaland	0.00	0.00	0.00	0.00	0.00
6. Pondicherry	0.00	0.00	0.00	0.00	0.00
7. Sikkim	0.00	0.00	0.00	0.00	0.00
8. Tripura	0.00	0.00	0.00	0.00	0.00
Average of EDs	1.50	8.68	12.40	11.37	10.46
All India Average	13.47	14.71	13.62	14.87	14.82

SED AS A PROPORTION OF AVERAGE TARIFF

(%)

	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Provi.)	2010-11 (RE)	2011-12 (AP)
I. SPUs					
1. Andhra Pradesh	0.00	0.73	0.74	0.65	0.61
2. Assam	1.25	1.28	1.77	1.84	1.68
3. Bihar	NA	NA	3.17	2.76	3.09
4. Chhatisgarh	5.43	4.34	5.90	4.92	4.92
5. Gujarat	8.58	8.18	8.93	9.65	9.68
6. Haryana	1.86	1.55	1.48	1.26	1.15
7. Himachal Pradesh	5.27	4.64	5.04	7.39	5.65
8. Jammu & Kashmir	11.70	13.02	12.96	17.00	17.00
9. Jharkhand	4.85	1.15	1.29	1.19	1.24
10. Karnataka	4.37	5.52	4.99	4.44	4.47
11. Kerala	4.59	4.65	5.44	5.83	6.05
12. Madhya Pradesh	10.63	9.92	0.00	0.00	0.00
13. Maharashtra	5.91	6.09	5.09	4.92	4.72
14. Meghalaya	0.58	0.52	0.49	0.50	0.38
15. Punjab	8.51	7.58	9.09	11.44	8.44
16. Rajasthan	7.47	7.81	7.59	6.99	7.05
17. Tamil Nadu	0.00	0.00	0.00	0.00	0.00
18. Uttar Pradesh	2.61	2.67	2.33	1.87	1.73
19. Uttrakhand	6.10	5.45	4.68	4.81	4.84
20. West Bengal	4.33	4.22	4.62	3.98	3.68
Average of SPUs	4.46	4.55	4.09	4.17	3.91
II. EDs					
1. Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00
2. Goa	1.46	6.96	10.01	9.54	8.05
3. Manipur	0.00	0.27	0.00	0.54	0.50
4. Mizoram	0.00	0.00	0.00	0.00	0.00
5. Nagaland	0.00	0.00	0.00	0.00	0.00
6. Pondicherry	0.00	0.00	0.00	0.00	0.00
7. Sikkim	0.00	0.00	0.00	0.00	0.00
8. Tripura	0.00	0.00	0.00	0.00	0.00
Average of EDs	0.52	2.58	3.96	3.72	3.18
All India Average	4.40	4.51	4.08	4.16	3.90

