KANPUR ELECTRICITY SUPPLY COMPANY LTD. BUSINESS PLAN FOR FY 2017-18 TO 2019-20

2017



KANPUR ELECTRICTY SUPPLY COMPANY LIMITED

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1. INTRODUCTION

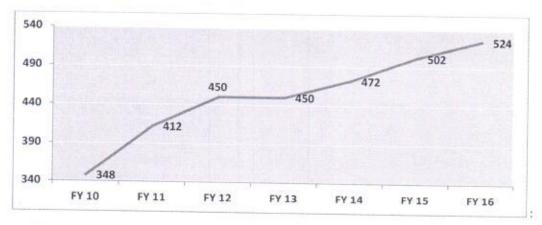
1.1. BACKGROUND

Uttar Pradesh being one of the largest states of India is also the most populous state of the country with is administrative capital at Lucknow. Ghaziabad, Kanpur, Moradabad, Aligarh, Meerut, Bareilly, Gorakhpur, Noida, Allahabad, Jhansiand Varanasi are known for their industrial importance in the state as well as at the national level. On 9thNovember, 2000, a new state, Uttarakhand was carved out from the Himalayan hill region of Uttar Pradesh.

With levels of literacy rate of around 70%, the state has abundant availability of quality human resources. Uttar Pradesh is a significant destination for investments in manufacturing industry, tourism and infrastructure.

Power sector is a critical infrastructure element required for the smooth functioning of the economy. An efficient, resilient and financially sustainable power sector is essential to stimulate growth and prosperity in the state. The availability of reliable, quality and affordable power can ensure growth of all sectors of economy including agricultural, industrial and others.

The Power Consumption in Uttar Pradesh has grown from 348 kWh per capita consumption in FY 10 to 524 kWh per capita consumption in FY 16, the electricity consumption in the State has grown at a CAGR of 7.06%, as depicted in the chart below:



Uttar Pradesh was one of the first states to embark upon a comprehensive programme of economic and structural reforms in the power sector. GoUP had demonstrated its willingness to take difficult decisions and implement power sector reform through a number of actions:

- a regulatory commission was established in September 1998;
- ii. In January 1999, GoUP issued a power sector policy statement with the objective of providing cost efficient and good quality supply and to make the energy sector self-sufficient;
- iii. the UP Electricity Reform Bill was enacted by GoUP in July 1999; and

The U.P. State Electricity Board (UPSEB) was unbundled in pursuance of a reform and restructuring exercise under the first reforms transfer scheme dated 14th January 2000, into three separate entities:

 Uttar Pradesh Power Corporation Limited (UPPCL) assigned with the function of Transmission and Distribution of power within the State.

- Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited (UPRVUNL) assigned with the function of Thermal Generation within the State.
- Uttar Pradesh Jal Vidyut Nigam Limited (UPJVNL) assigned with the function of Hydro Generation within the State.

Through another Transfer Scheme dated 15th January, 2000, assets, liabilities and personnel of Kanpur Electricity Supply Authority (KESA) under UPSEB were transferred to Kanpur Electricity Supply Company (KESCO), a company registered under the Companies Act, 1956.

Further unbundling of UPPCL (responsible for both Transmission and Distribution functions) was again felt after the enactment of the Electricity Act 2003 and four new distribution companies (hereinafter collectively referred to as "DisComs") were created vide Uttar Pradesh Transfer of Distribution Undertaking Scheme, 2003 viz.

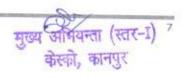
- Dakshinanchal Vidyut Vitaran Nigam Limited (AGRA DisCom)
- Madhyanchal Vidyut Vitaran Nigam Limited (LUCKNOW DisCom)
- Paschimanchal Vidyut Vitaran Nigam Limited (MEERUT DisCom)
- Purvanchal Vidyut Vitaran Nigam Limited (VARANASI DisCom)



1.2. KEY INITIATIVES TAKEN

In an initiative to revive the financially distressed Distribution Companies the Union Cabinet chaired by the Hon'ble Prime Minister Shri Narendra Modi, approved a new scheme moved by the Ministry of Power - Ujwal DISCOM Assurance Yojna (UDAY). UDAY provides for the financial turnaround and revival of Power Distribution companies (DISCOMs), and thereby ensuring a sustainable permanent solution to the problem.

The scheme comprised of four initiatives - improving operational efficiencies of Discoms, reduction of cost of power, reduction in interest cost of Discoms and enforcing financial discipline on Discoms



through alignment with state finances. It allowed state Government, which own the Discoms, to take over 75 percent of their debt as of September 30, 2015, and pay back lenders by selling bonds. Discoms were expected to issue bonds for the remaining 25 percent of their debt.

Consequently, on January 30, 2016, the UPPCL on behalf of U.P. Discoms has entered into a tripartite MOU with Government of India and Government of Uttar Pradesh, in order to improve the operational and financial efficiency of the U.P. Discoms and to enable financial turnaround of the Discoms.

At the time of initiation of the above scheme, the U.P. Discoms were reeling under severe financial stress. The accumulated losses have reached to the level of Rs.70,738 Crore (approx.) up to March 31, 2015. The outstanding debt level of the U.P. Discoms had reached Rs.53,211 Crore at the end of September 2015. Also, the interest cost burden was nearly Rs. 0.88 per unit of sales during FY 15, which was significantly higher than the national average of Rs 0.44 per unit only. The Annual Revenue Requirement (ARR) was insufficient to meet the Average Cost of Supply (ACOS), with a cost recovery of only 65.97 %.

Under the Uday Scheme the UP Discoms took the following measures:

- a) For the 50% of the debt remaining with it as on 31 st March, 2016, DISCOM to fully/ partially issue state government guaranteed bonds or get them converted by Banks/FIs into loans or bonds with interest not more than the Bank base rate plus 0.1%. DISCOMs and the Government of UP to ensure timely payment of lender's dues towards principal/interest for the balance debt remaining with DISCOM.
- b) The DISCOMs shall pay interest to the Government of Uttar Pradesh on the outstanding Government of Uttar Pradesh loan in a financial year at the rate at not exceeding the coupon rate at which GoUP issued Non-SLR Bonds.
- As per the UDAY scheme, all DISCOMs have to reduce AT&C losses to 14.86% by FY 2019-20 as per the following trajectory:

Table 1-1: AT&C Losses as per UDAY MOU

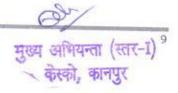
Year	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20
AT&C loss	32.36	28.27	23.63	19.36	14.86

However, the State will make efforts to ensure that DISCOMs reduce AT&C losses to 15% by FY 2018-19 if the target in a particular year is not met, then the DISCOMs shall strive to achieve the targets in the subsequent years so as to achieve the desired target of 14.86 % AT&C losses positively by FY 2019-20.

- d) The DISCOMs shall increase hours of power supply in areas showing reduction in AT&C losses.
- e) As per the UDAY scheme, all DISCOMs have to eliminate gap between ACS & ARR by FY 2018-19. Considering the current level of the gap. UP has proposed to eliminate it by FY 2019-20. However, the State will make efforts to ensure that DISCOMs eliminate the Gap by 2018-19 and if not achieved, positively by FY 2019-20. Detailed computation of year



- wise ACS-ARR gap along with financial projections have been attached as Annexure B.
- f) In compliance with the Renewable Purchase Obligations (RPO) outstanding since 1.4.2012 till 31.3.2015, DISCOMs of UP shall fulfil RPO obligation 3 years after the Discoms reaches break even i.e. the Financial year 2019-20.
- g) DISCOMs shall submit the detailed action plan by 31.03.2016 to achieve the projected trajectory for AT&C loss and ACS-ARR gap.
- The DISCOMs shall achieve operational milestones related to loss reduction and enhancement of revenue, as specified in DDUGJY & IPDS.
- i) The DISCOMs would also take the following measures for Loss Reduction:
 - Undertaking name and shame campaign to control power theft from time to time;
 - (ii) Preparing loss reduction targets at subdivision/ division/ circle/ zonal level and making concerned officers responsible for achieving the loss reduction targets;
 - (iii) Implementing performance monitoring and management system MIS for tracking the meter replacement, loss reduction and day to day progress for reporting to top management;
 - (iv) Achieving 100% Distribution Transformer (DT) metering by 30 September 2017;
 - (v) Achieving 100% feeder metering by 30 September 2016;
 - (vi) Undertaking energy audit up-to 11kV level in rural areas by 30 September, 2019;
 - (vii) Undertaking Feeder Improvement Program for network strengthening and optimization, to be completed by 31March 2017, in accordance with sanction of funds under the relevant scheme..
 - (viii) Undertaking Physical Feeder Segregation by March 2018, in accordance with sanction of funds under the relevant scheme.
 - (ix) Installation of Smart Meters for all consumers other than agricultural consumers consuming above 500 units / month by 30thJune 2018 and consumers consuming above 200 units / month by 31stMarch 2020. Consumption per month has also been linked with the contracted load for the purpose of this agreement.
 - (x) Providing metered electricity access to unconnected households as per trajectory in the 24x7 in accordance with sanction of funds under the relevant scheme by FY 19.
 - (xi) Implementing ERP systems for better and effective inventory management, personnel management, accounts management etc. to reduce costs and increase efficiencies by March 2018,in accordance with sanction of funds under the relevant scheme.
- The DISCOMs shall undertake the following measures for Demand Side Management and Energy Efficiency:
 - (i) Providing LED for domestic and other category consumers;



- (ii) Undertaking consumer awareness programs for optimum utilization of resources and to foster long term behavioural changes;
- (iii) Replacement of street lights with LEDs in phase manner in the municipal towns through Nagar Nigam/ Municipal Corporations in accordance with the policy framework;
- (iv) Replacing at least 10% of existing agriculture pumps with energy efficient pumps, in accordance with the policy framework;
- (v) Shall Promote PAT scheme of BEE for improving energy efficiency in Industries in accordance with the policy framework.
- k) The DISCOMs shall undertake the following tariff measures:
 - (i) Quarterly tariff revision particularly to offset fuel price increase;
 - (ii) Timely filing of ARR/Tariff Petition before the UPERC so that Tariff Order may be issued for the year as early as possible.
 - (iii) Timely preparation of annual accounts of the DISCOMs, which shall also enable timely filing of the Tariff Petition;
- The DISCOMs shall undertake the following measures to increase employee engagement:
 - (i) Initiating capacity building of employees to enhance technical, managerial and professional capabilities at induction level and in subsequent refresher trainings;
 - (ii) Devising Key Performance Indicators (KPIs) for each officer in-charge on areas of AT&C loss reduction and improvement in meter/billing/ collection efficiency. The performance of officer in-charge shall be linked to KPIs achieved and will attract incentive/ penalty;
- m) The DISCOMs shall implement the following Customer Service Strategy:
 - (i) Setting up of Centralized Customer Call Centre for timely resolution of complaints related to no current and other technical complaints, harassment by official, reporting of theft and safety related complaints;
 - (ii) Introducing more avenues to consumers for bill payment, which could be in terms of e-payment through net banking, credit/ debit card, kiosks at banks and post offices, village panchayats, mobile collection vans, etc;
- The DISCOMs shall procure power through the transparent process of competitive bidding as per the policy framework.
- Every DISCOM shall identify the key personnel for implementing the scheme (UDAY)
- DISCOMs shall devise the mechanism to motivate and encourage the staff.
- q) CMD / MD of DISCOMs shall monitor the performance of DISCOMs on monthly basis
- r) Monthly monitoring formats along with the quarterly targets shall be provided by the DISCOMs by 31st March 2016.

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24x7 Power for ALL (Uttar Pradesh)

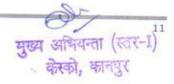
On 26th March, 2017, the Govt. of Uttar Pradesh entered into agreement with Govt of India committing round the clock power to all the households of Uttar Pradesh by FY 19. The 24x7 Power for All programme is a joint initiative of the Government of India (GoI) and State Governments, with the objective to provide 24x7 power to households, industry, commercial, and other consuming entity, and adequate power to the agricultural sector by FY19. This roadmap document aims to identify the requirements to meet the above objectives for Uttar Pradesh.

'24x7 Power for All' (PFA) programme will be implemented by Government of Uttar Pradesh (GoUP) with active support from the Government of India with the objective to connect the unconnected in a phased manner by March 2019 and to ensure 24x7 quality, reliable and affordable power supply to all Domestic, Commercial and Industrial consumers within a pragmatic but fixed timeframe. Agriculture consumers will also be given supply as per requirement in a cost effective manner. Power Sector development being the most crucial prime-mover for the overall development of the State, Government of Uttar Pradesh is committed to accord highest priority to power sector and accordingly, is committed to provide full support to all the associated utilities for ensuring quality power supply. Government of Uttar Pradesh, in synergy with Government of India, would try to ensure that all the necessary steps outlined in the PFA document are taken up in terms of village electrification, capacity addition, power purchase planning, strengthening the required transmission and distribution network, encouraging renewable energy, undertaking customer centric initiatives, reduction of AT&C losses, bridging the gap between ACS and ARR, and following good governance practices in the implementation of all electricity related Central and State Government Schemes.

The Government of India would synergize and supplement the efforts of the Government of Uttar Pradesh through a fast-track resolution of key issues pertaining to Generation & Transmission and ensuring enhanced allocation in various Distribution schemes. Envisioning 24x7 reliable and affordable electricity in the State of Uttar Pradesh is a joint dream and hence Government of India will support the efforts of Government of Uttar Pradesh in every possible manner to make it a reality provided Government of Uttar Pradesh puts its best foot forward for achieving this dream so that equitable development across all regions of the State of Uttar Pradesh is ensured. The Central and State Governments would meet regularly to review the progress of programme over the next two years and would strive to achieve the objectives by taking necessary steps as envisaged in this Power for All document.

The brief summary of the major targets under the 24x7 Power For All initiative are detailed below:

- a. Ensure reliable 24x7 supply to consumers by September 2018. The hours of supply for agriculture consumers will be decided by the State Government as per requirement.
- Ensure that all unconnected households are provided access to electricity in a time bound manner in the next two years i.e. by FY 19.
- c. Ensure adequate capacity addition planning and tie ups for power from various sources at affordable price to meet the projected power demand in future.
- d. Strengthen the transmission and distribution networks to cater to the expected growth in demand of existing as well as future consumers.



- Assess financial measures including optimization of investments and undertaking necessary balance sheet restructuring measures to ensure liquidity in the finances of the utility.
- f. Put in place a strategy to ensure reduction of AT&C losses as per agreed loss reduction trajectory and methodology and chalk out measures required at every level of distribution.
- g. Identify steps for implementation and adoption of modern technologies to monitor reliability of supply. Identify steps for monitoring and timely commissioning of various generating plants and transmission and distribution infrastructure to meet the expected growth in demand.
- h. To take measures for meeting the performance standards as laid down by UPSERC.

1.3. OBJECTIVES OF KESCO

The key objectives of this business plan are:

- Ensure reliable supply to consumers to commensurate the committed supply hours to rural and urban areas.
- The state has already increased the power supply to rural areas to 18 hours and 24 hours to
 urban and further plans increase supply hours to rural areas with increasing distrubtion
 infrastructure. However, the demand in domestic category is presently still suppressed owing
 to localized capacity constraints, which are targeted to be addressed through various system
 strengthening schemes.
- Ensure that all unconnected households are provided access to electricity in a time bound manner i.e. by FY 19.
- Ensure adequate capacity addition planning and tie ups for power from various sources at affordable price to meet the projected power demand for future.
- Strengthen the distribution network to cater the expected growth in demand of existing as well as future consumers.
- Assess the financial measures including optimizing investments and undertaking necessary balance sheet restructuring measures to ensure liquidity in the finances of the utility.
- Put in place a clear strategy to ensure reduction of AT&C losses as per the agreed loss reduction trajectory and steps required to be taken at every level of the distribution network.
- Identify steps for implementation and adoption of modern technologies to monitor reliable supply.
- Identify steps for monitoring timely commissioning of various distribution infrastructure to meet the expected growth in demand.
- To take measures for meeting the performance standards as laid down by UPERC.
- Bridging the gap between the demand and supply for the already identified / registered consumers and other consuming entities.
- Conduct sensitivity analysis for cost of service and resulting financial gap under multiple scenarios on various parameters namely, tariff hike, reduction in power procurement cost, and increase in interest and moratorium period, AT&C loss reduction, etc.

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1.4. CORPORATE MISSION AND VISION

Kesco will be professionally managed utility supplying reliable and cost efficient electricity to every citizen of the discom through highly motivated employees and state of art technologies, providing an economic return to our owners and maintaining leadership in the country.

Kesco endeavours to be among the best of Power Distribution utilities in India in operating efficiency, system reliability standards and commercially viable operations.

Kesco shall achieve this being a dynamic, forward looking, reliable, safe and trustworthy organization, sensitive to our customer's interests, profitable and sustainable in the long run, providing uninterrupted supply of quality power, with transparency and integrity in operation.

High productivity reflected in a fair, equitable and cost based tariff across consumer categories, accurate and timely billing on a rational, comprehensible billing basis reflecting actual consumption, and convenient system for payment of dues. Simple and well-advertised procedures, guaranteed connection of requested load within reasonable time, prompt breakdown attendance, and Efficient Complaint handling.

Effective communication of policies and procedures, a reliable supply to essential public services, enforcing adequate safety norms and environmental and social norms, minimizing inconvenience dare to disruptions etc.

Developing with a core function of providing quality, uninterrupted power, commercial focus considering all techno-economic issues of investments, and a high level of consumer service with new connections on demand and low complaint resolution times.

Adopt best practices of Project and Operations & Maintenance Management leading to system efficiency, reliability and commercial viability. Create a work environment which motivates & enhances employee performance, value systems and reward contribution. Develop and train employees towards upgrading their skills at work, enrich work content to make it more substantive and responsive to company goals.

Imbibe transparency and accountability in all operational areas, be it procurement, construction, operations and maintenance. Expand horizons of activities in to contracting and others by leveraging the Company's available technical and project expertise. Build, in essence Kesco to a Company geared to high standards of management capabilities and professional performance.

1.5. KEY OBJECTIVES OF THE BUSINESS PLAN

The key objectives of this business plan have been listed below:

Providing a tool for strategic planning - The primary objective of the Business Plan is to
analyse and anticipate the future requirements in advance and strategically plan for the
capital investments, related means of financing and various associated costs and document
them which would serve as an effective tool for monitoring and execution of future works. It
is important to project the growth in distribution network infrastructure commensurate with
the energy demand required for fuelling the economic growth targets of the State.

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- Meeting the regulatory compliance of submission of a business plan as mandated by the Uttar Pradesh Electricity Regulatory Commission (Multi Year Distribution Tariff) Regulations, 2014 (hereinafter referred to as 'MYT Distribution Regulations').
- Aid in decision making leading to better Operational Efficiency The Business Plan is
 prepared so as to be useful for the Managing Board, associated stakeholders, the Hon'ble
 Commission and various government bodies. The future projections in the Plan would help
 the transmission utility in decision making and taking proactive actions, and thus improving
 the overall operational efficiency of the Distribution network infrastructure.

The business plan of the discom has been prepared considered the impact of changes in the key business drivers, current regulatory practice and the regulatory norms envisaged in the mid-term, policy decisions of GoUP, etc. The main thrust of the business plan is to improve the operating efficiency and tide over the financial crisis by achieving financial turnaround.

Following parameters have been considered in the preparation of the business plan of the discom:

- Energy Sales Forecast
- Transmission and Distribution Loss Reduction Trajectory
- Energy Availability and Power Procurement Plan
- Energy Balance
- Capital Investment Plan and its Financing
- Annual Revenue Requirement for each financial year of the Control Period

The Discom has prepared the Business/Operational Plan taking into consideration all the factors and commitments made under the UDAY and PFA scheme. It is submitted that the Business plan being a dynamic document may need to be updated at periodic intervals taking into account the changes in the internal and external environment and these changes would be intimated to the Hon'ble Commission from time to time. The operational plans include the estimates of each capital expenditure scheme of Kesco from FY 2017-18 to FY 2019-20.

The most important aspect of any business plan is its implementation and thereby monitoring of key activities is a pre-requisite. In light of the existing situation there is a dire need of assigning certain key performance indicators at the micro level of the distribution companies.

Key Performance Indicators (KPIs) can be defined as the measures that focus on the aspects or areas of organisation's performance that are critical or vital for the ongoing and future success. In order to ensure that the designated objectives are attained, KPIs should be specific, measurable, agreed to, realistic, timely and aligned with the plan targets.

Key Performance indicators like distribution loss trajectories, collection efficiency trajectory, average tariff hikes, etc have to be monitored on a concurrent basis and are crucial for the successful implementation of the Plan.

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2. BUSINESS OVERVIEW: OPERATIONAL

A snapshot of the existing distribution system of the utilities serving in Uttar Pradesh is given below:

Table 2-1: Existing Distribution System

Particulars	MVVNL	DVVNL	PuVVNL	PVVNL	KeSCO
Number of 33/11 kV substations / transformers	735	773	698	951	82
Capacity of 33/11 kV substations (MVA)	8312 MVA	7451 MVA	6044 MVA	12452 MVA	1290 MVA
Length of 33 kV lines (ckt kms)	10972 km	14449 km	10640 km	9802 km	428 km
Length of 11 kV lines (ckt kms)	107527 km	109929 km	65011 km	81084 km	1040 km
Length of LT Lines (km)	351210 km	215099 km	379277 km	231134 km	1845 km
Number of 11/0.4 kV Distribution Transformers	266934	216811	230124	210593	4448
Capacity of 11/0.4 kV Distribution Transformers (MVA)	11127 MVA	9388 MVA	7940 MVA	11889 MVA	1008 MVA

2.1. EXISITNG GENERATION AVAILABLITY

The distribution utilities of Uttar Pradesh presently procure power centrally at UPPCL level which buys power for the five State owned discoms i.e. MVVNL, DVVNL, PVVNL, PVVNL and KESCO. As per the Power Supply Position report of CEA, lately the state of UP has been able to meet 17,183 MW peak demand in Feb, 2017. In terms of Energy the total power purchase quantum for the UP State has grown from 65,375 MU's in FY 2010-11 to 1,07,569 MU's in FY 2016-17, with a CAGR of 8.65%.

The total installed generation capacity for Uttar Pradesh as on date (including its firm share from allocated capacity in State, private, joint and CGS) is 20,666.89 MW is detailed in table below:

Table 2.1-1: Sector wise details of Installed Generation Capacity

Particulars	Installed Capacity (MW)
State Sector	
State Thermal	5933.00
State Hydro	454.90
Central Sector	
CGS Thermal	4088.00
CGS Hydro	1790.67
CGS Nuclear	360.87
IPPs	
Thermal	6722.55

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Particulars	Installed Capacity (MW)
Hydro	842.00
RE	474.90
Total Capacity (MW)	20666.89

As discernible from the table above, the Coal based capacity constitutes about 81% of the total followed by hydro 15%, renewable 2% and balance about 2% from nuclear.

2.2. CAPACITY ADDITION PLAN

To cater the growth in Energy demand on account of increase in supply hours in the rural and urban areas, the UPPCL on behalf of UP Discoms has planned generating capacity addition during the MYT control period. A number of generating stations (hydro, coal based, renewable etc.) are planned to be commissioned during the MYT control period. There is about 5,041 MW generating capacity planned to be available for UP power system from different sources including state sector upto the period FY 2019-20. The additional capacity available from various sources (along with the expected year of availability) is summarized in the table below:

Table 2.2-1: Generation Capacity Addition Plan

Particulars	MW Capacity Addition					
	2017-18	2018-19	2019-20	Total		
State RE		NATIONAL PROPERTY.				
Solar / Biomass	250	1100	1250	2600		
Central Sector			1250	2000		
CGS Thermal				272		
Tanda Stage-II			155	272		
Uchchahar-IV		117	133			
CGS Hydro		447		F.4.		
Tapovan Vishnu Gad	1		101	541		
Kishanganga HEP	64		101			
Vishnugarh Pipalkoti			166			
Parbati II		155	100			
Kameng		133	rr.			
CGS Nuclear			55			
RAPP Unit 7 & 8			163	1.05		
PPs			162	162		
Thermal						
RKM Powergen	350			350		
Hydro	333					
Teesta	200			200		

Particulars	MW Capacity Addition				
	2017-18	2018-19	2019-20	Total	
Joint Sector			E-GODA WEI	916	
NTPC Meja		458	458	510	
Total Capacity (MW)			330	5041	

The commissioning of the generating stations has been considered based on the construction progress for the on-going projects and as per the project monitoring reports published by the Central Electricity Authority (CEA). The Discoms are expected to cater the required demand from FY 2020 onwards. The various parameters impacting the net generation and power purchase cost from these plants like Plant Load Factor, Design Energy, Station Heat Rate, Auxiliary Energy Consumption, etc have been considered on the basis of prevailing regulatory norms. The increase in energy charges (fuel cost) and capacity charges (fixed costs) and other expenses during the projection period have been factored in through an increase of 4% to 5% in per unit power purchase cost depending upon the nature and source of generation and power purchase.

With considerable capacity addition planned from FY 18 onwards along with efficiency improvement in terms of reduced distribution loss targets the situation in the State is likely to improve. Analysing the situation of power availability from sources within and outside the State, there is enough power available to cater energy requirement till FY 20.

Further, the list of generating stations which are at the planning stage/under construction whose evacuation is proposed through State Transmission (UPPTCL) system is provided in the table below:

Table 2.2-2: List of Generating Stations whose evacuation is proposed through UPPTCL system

S. No.	Name of the Project	Name of the Developer	Capacity In MW
1	Obra C TPS	UPRVUNL	1320
2	Ghatampur TPS	UPRVUNL & NLC	1980
3	Harduagnaj Ext. TPS	UPRVUNL	660
4	Panki Extension	UPRVUNL	660
5	Karchana TPS	UPRVUNL	
6	Jawaharpur TPS	UPRVUNL	1320

2.3. SCHEMES UNDER IMPLEMENTATION

2.3.1. INTEGRATED POWER DEVELOPMENT SCHEME (IPDS)

The UP Discoms are presently receiving capital expenditure funds under Central Government scheme "Integrated Power Development Scheme" (IPDS) covering urban areas for:

a) Strengthening of sub-transmission and distribution networks in the urban areas.

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- b) Metering of distribution transformer/feeders/consumers in the urban areas.
- c) IT enablement of distribution sector and strengthening of distribution network for completion of the targets laid down under R-APDRP for 12th and 13th Plans by carrying forward the approved outlay for R-APDRP to IPDS.

The R-APDRP scheme, as approved by CCEA for continuation in 12th and 13th Plans, has been subsumed in this scheme as a separate component relating to IT enablement of distribution sector and strengthening of distribution network.

This outlay will be carried forward to the new scheme of IPDS in addition to the outlay indicated above. PFC is the nodal agency for the implementation of IPDS in the country.

The new IPDS proposal aims to cover 637 towns including towns covered under R-APDRP. The distribution utilities of the State have proposed works amounting to Rs. 4889.37 crores to be undertaken under the new IPDS scheme

For implementation of these works, 60% of project cost is available as grant from GOI under IPDS and the state has to arrange the balance amount- 30 % as loan and 10% as equity. On meeting certain conditions laid down in IPDS such as timely completion, AT&C loss reduction etc. the grant component may go up to 75% of project cost.

Under the Integrated Power Development Scheme (IPDS), GoUP has submitted proposals for works in urban areas such as i) Strengthening of sub-transmission and distribution networks and for ii) Metering of DT / feeders / consumer.

Table 2.3.1-1: New IPDS scheme

		Total f	or State
Item	Unit	Quantity	Cost (Rs
33/11 kV SS : New	Nos.	240	498.18
33/11 kV SS: Additional Transformer	Nos.	87	81.08
33/11 kV SS: Transformer capacity enhancement	Nos.	172	180.05
Renovation and Modernisation of 33/11 kV S/S	Nos.	466	88.66
New 33 kV new feeders / Bifurcation of feeders	Km	2295	283.13
33 kV feeder reconductoring / augmentation	Km	431	96,51
33 kV Line Bay Extension of EHV station	Nos.	344	78.94
11 kV line: New feeder / feeder bifurcation	Km	4004	547.10
11 kV line: Augmentation / Reconductoring	Km	806	103.46
Aerial Bunched Cables	Km	7171	614.69
Under-ground cables	Km	469	337.84
11 kV Line Bay Extension	Km	0	0.00
Installation of Distribution Transformer	Nos.	6336	549.17
Capacity enhancement of LT sub-station	Nos.	2648	246.55
LT line: New feeder / feeder bifurcation	Km	3249	320.44
LT line: Augmentation / Reconductoring	Km	568	192.71
Capacitor Bank	Nos.	429	154.55

		Total for State		
Item	Unit	Quantity	Cost (Rs	
High Voltage Distribution System (HVDS)	Nos.	0	0.00	
Metering	Nos.	344252	115.02	
Provisioning of solar panels	Lot	527	9.31	
Ring Main Unit (RMU), Sectionaliser, Auto Reclosures, Fault Passage Indicators (FPI) etc.	Lot	1362	163.32	
Others	LS	2649	228.65	
Grand Total			4889.37	

There are 168 towns covered in RAPDRP Part–A and 167 towns under R-APDRP Part-B for system strengthening and loss reduction. Out of 167 towns, 155 towns are Non-SCADA and 12 are to be SCADA compatible towns. Noida is not covered under R-APDRP Part-B works. Projects with estimated capital expenditure totaling Rs. 4721 Crore (including PMA cost) for 82 circles have been sanctioned for Uttar Pradesh by GOI. An amount of Rs. 680.78 crore has already been released to utilities. Work has been awarded partially in 81 circles out of 82 for an amount of Rs. 4034.84 crore. Discom wise status of IPDS, as in March, 2017 is summarized in the following table:

Table 2.3.1-2: Project expenditure and sanctioned cost for Non-SCADA towns

Utility	No. of circles/	No. of towns	Approved cost	Amount Disbursed
TER SE	zones		(Rs. Crore)	(Rs. Crore)
MVVNL	12	181	724	81.90
DVVNL	17	176	768	113.07
PVVNL	21	137	1486	243.54
PuVVNL	16	142		5-3-0.0-0
KESCO		07/12/2	1280	187.21
KESCO	1	1	463	55.06
Total	67	637	4721	680.78

2.4. OPERATIONAL PERFORMANCE

Operational parameters and performance provide a basis for determining the financial viability and strategies for the company. Some of the operational performance parameters have been analysed in this section.

The Energy input for the discom has increased from 3,089 MU's in FY 2011-12 to 3,686 MU's in FY 2016-17, vis-a-vis the sales have increased from 2,071 MU's in FY 2011-12 to 3,111 MU's in FY 2016-17, thus resulting in distribution losses in the supply area of KESCO, from 32.96% in FY 2011-12 to 15.60% in FY 2016-17.

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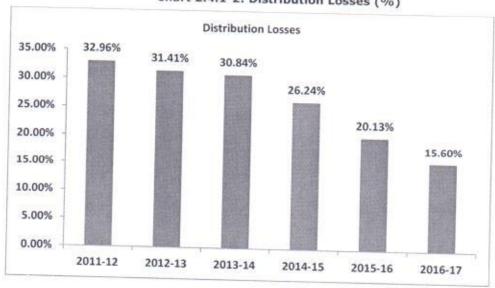
2.4.1. ENERGY INPUT AND ENERGY SALES

The details of energy input at the Discom periphery and the sales made by the Discoms, along with the Distribution Losses achieved by the Discom, over the past 5 years is shown in the chart below:

■ Kesco Power Purchase ■ Kesco Sales 3.686 3,554 3,584 3.501 3,089 3,140 3.111 2,863 2,582 2,458 2.154 2,071 2011-12 2012-13 2013-14 2014-15 2015-16 2016-17

Chart 2.4.1-1: Energy Input and Energy Sales (MU's)





3. REGULATORY FRAMEWORK

3.1. BACKGROUND

As per the Constitution, the power sector in India was the combined responsibility of Central and State Government. Over the years, reforms in Indian power sector have been driven by the Union Government in an endeavour to achieve sustainable growth & improvement in operational

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efficiencies. One of the hallmarks of this reform Agenda is the Electricity Act, 2003 (hereinafter referred as EA, 2003 or simply the "Act" unless specified otherwise).

The Electricity Act 2003 attempts to induce competition in electricity sector for creating an environment conducive to supply of good quality of electricity to all categories of consumers at affordable/reasonable prices. The access to electricity markets for captive generators, open access participants and parallel licensees has led to evolution of multi buyer market mechanism. Adequate investment in Intra-state and Inter-state transmission infrastructure would also be required for supporting power generation. This vibrant power market would facilitate competitive merchant power plants to be set up pursuant to the promotional policies like mega power plants etc, and incentives offered by the Government such as availability of state specific resources like land, water, rebate in local taxes, etc.

3.2. ENABLING PROVISIONS IN ELECTRICITY ACT, 2003

The Government of India has notified the Electricity Act, 2003 with effect from 10th June 2003 which requires the State Governments to initiate major changes in the Industry Structure and Operations of the state power sector. The broad objectives of the Electricity Act, 2003 as incorporated in its preamble is to consolidate the laws relating to generation, transmission, distribution, trading and use of electricity and for taking measures conducive to development of electricity industry through way of reforms and restructuring, promoting competition therein, protecting interest of consumers and supply of electricity to 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.

It has introduced a number of innovative concepts like de-licensing of generation, power trading, Open Access, Appellate Tribunal, etc., and special provisions for the rural areas. The Act has made it mandatory for all the States to restructure their SEBs.

The major provisions of the Electricity Act 2003 related to Distribution are:

- As per Section 3 of the Electricity Act 2003, the CEA has been entrusted with the responsibility of preparing the National Electricity Plan in accordance with the National Electricity Policy and notify such plans once in five years.
- Preparation, publication and notification of National Electricity Plan by the Central Electricity Authority. (Section 4)
- Duty to supply on request: This provision very clearly indicates that it shall be the duty of the licensee to supply electricity to the premises of the applicant within 30 days from the date of application. (Section 43)
- Power to recover charges for supply of electricity in accordance with the methods and principles laid down by the State Commission. (Section 45)
- Electricity Supply Code- This section empowers the State Commission to specify the ES code for effective operation of supply, billing , disconnection, restoration of supply etc. (Section 50)
- Provisions relating to safety and electricity supply (Section 53)
- Provisions relating to Disconnection of supply (Section 56)

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- Use of meters this provision makes it very clear that no licensee shall supply electricity except through installation of a correct meter (Section 55)
- Specific provision for disconnection of supply in default of payment. However, the sections
 clearly says such disconnection can be made only after giving a 15 days clear notice to the
 consumer. Subsection (2) under this section also specifies a limitation of two years for
 recovery of dues (Section 56)
- Consumer protection Provisions under this section says that appropriate standards of performance shall be determined by the Commission. Failure to adhere to the standards, the licensee becomes liable for penalty or prosecution besides providing compensation to the consumer. (Section 57)
- Provides for establishment of consumer grievance redressal forum by the licensee as per the guidelines issued by the Commission. (Section 42 (5))
- Provides for establishment of Ombudsman for redressal of grievances not properly addressed by consumer grievance redressal forums (Section 42(6))
- Provides for assessing unauthorized use of electricity by the assessing officer. Under the
 explanation, Assessing officers are defined as " An Officer of State Government, Board or
 licensee as the case may be, designated as such by the State Government" (Section 126)
- Provides for constitution of appellate authority to hear appeals on the assessment by the assessing officers (Section 127)

The Act has created a conducive environment for investments in all segments of the industry, both for public sector and private sector, by removing barrier to entry in different segments.

Functions as specified in the Act are:

- Distribution:
- Planning & co-ordination of distribution system;
- Development of efficient and economical distribution lines and sub-station for efficient transmitting of power to the consumers;
- Providing non-discriminatory open access to the system

3.3. NATIONAL ELECTRICITY POLICY

The National Electricity Policy was notified by GoI as per provisions of the Act on February 12, 2005. This Policy aims at accelerated development of the power sector, providing supply of electricity to all areas and protecting interests of consumers and other stakeholders keeping in view availability of energy resources, technology available to exploit these resources, economics of generation using different resources and energy security issues.

The main objectives of the Policy were:

- Access to Electricity Available for all households.
- Supply of Reliable and Quality Power of specified standards in an efficient manner and at reasonable rates.
- Financial Turnaround and Commercial Viability of Electricity Sector.
- Protection of consumer interests.

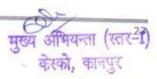
मुख्य आष्मयन्ता (स्तर-I) केस्को, कामगुर The National Electricity Policy lays down the approach for developing Rural Electrification distribution backbone and village electrification to achieve the target of completing household electrification. The policy also envisages financial support in terms of capital subsidy to States for rural electrification and special preference weaker sections for rural electrification.

The Policy notes that in view of the required magnitude of the expansion of the sector, a sizeable part of the investment requirement will need to be brought in from the private sector. In keeping with this, it specifies that special mechanisms would be created to encourage private investment in the distribution sector so that sufficient investments are made for achieving the objective of demand to be fully met by 2012.

The National Electricity Policy notified on 12th February, 2005 inter-alia states that -

- "5.4.1 Distribution is the most critical segment of the electricity business chain. The real challenge of reforms in the power sector lies in efficient management of the distribution sector.
- 5.4.2 The Act provides for a robust regulatory framework for distribution licensees to safeguard consumer interests.
- 5.4.3 For achieving efficiency gains proper restructuring of distribution utilities is essential. Adequate transition financing support would also be necessary for these utilities.
- 5.4.4 Conducive business environment in terms of adequate returns and suitable transitional model with predetermined improvements in efficiency parameters in distribution business would be necessary for facilitating funding and attracting investments in distribution. Multi-Year Tariff (MYT) framework is an important structural incentive to minimize risks for utilities and consumers, promote efficiency and rapid reduction of system losses. It would serve public interest through economic efficiency and improved service quality.
- 5.4.6 A time-bound programme should be drawn up by the State Electricity Regulatory Commissions (SERC) for segregation of technical and commercial losses through energy audits.
- 5.4.10 Modern information technology systems may be implemented by the utilities on a priority basis, after considering cost and benefits, to facilitate creation of network information and customer data base which will help in management of load, improvement in quality, detection of theft and tampering, customer information and prompt and correct billing and collection .
- 5.4.12 SCADA and data management systems are useful for efficient working of Distribution Systems. A time bound programme for implementation of SCADA and data management system should be obtained from Distribution Licensees and approved by the SERCs keeping in view the techno economic considerations. Efforts should be made to install substation automation equipment in a phased manner."

The policy also emphasises on higher efficiency levels of generating plants through renovation and modernization, transmission capacity to have redundancy level and margins as per international standards, adequate transitional financial support for reforming power utilities, encouragement for private sector participation in distribution, putting in place independent third party meter testing arrangement, adoption of IT system for ensuring correct billing, speedy implementation of stringent measures against theft of electricity, emphasis on augmentation of R&D base, energy conservation measures, appropriate tariff structure for managing the peak load, development of training



infrastructure in regulation, trading and power market, providing boost to renewable and non-conventional energy sources, and necessary regulations and early appointment of Ombudsman for redressal of consumers grievances.

3.4. NATIONAL TARIFF POLICY

Some of Distribution related provisions of National Tariff Policy which have implication with regard to the National Electricity Plan are:

- Supply of reliable and quality power of specified standards in an efficient manner and at reasonable rates is one of the main objectives of the National Electricity Policy.
- The State Commission should determine and notify the standards of performance of licensees with respect to quality, continuity and reliability of service for all consumers. It is desirable that the Forum of Regulators determines the basic framework on service standards.
- A suitable transition framework could be provided for the licensees to reach the desired levels of service as quickly as possible. Penalties may be imposed on licensees in accordance with section 57 of the Act for failure to meet the standards.
- Making the distribution segment of the industry efficient and solvent is the key to success of power sector reforms and provision of services of specified standards. Therefore, the Regulatory Commissions need to strike the right balance between the requirements of the commercial viability of distribution licensees and consumer interests.
- Loss making utilities need to be transformed into profitable ventures which can raise necessary resources from the capital markets to provide services of international standards to enable India to achieve its full growth potential.
- Efficiency in operations should be encouraged. Gains of efficient operations with reference to normative parameters should be appropriately shared between consumers and licensees.
- Appropriate Commission should mandate Distribution Licensee to undertake load forecasting every year and to publish and submit to the Commission their short, medium and long-term power procurement plans to meet the load.
- The State Regulatory Commission will devise a specific trajectory so that 24 hours supply of adequate and uninterrupted power can be ensured to all categories of consumers by 2021-22 or earlier depending upon the prevailing situation in the State.
- Micro-grids supplying renewable energy are being set up in such areas where the grid has
 not reached or where adequate power is not available in the grid. Investment involved in
 setting up of such micro grids is substantial.
- Implementation of Multi-Year Tariff (MYT) framework
- All power purchase costs need to be considered legitimate unless it is established that the merit order principle has been violated or power has been purchased at unreasonable rates.
- The reduction of Aggregate Technical & Commercial (AT&C) losses needs to be brought about but not by denying revenues required for power purchase for 24 hours supply and necessary and reasonable O&M and investment for system up gradation.
- Consumers, particularly those who are ready to pay a tariff which reflects efficient costs have the right to get uninterrupted 24 hours supply of quality power.

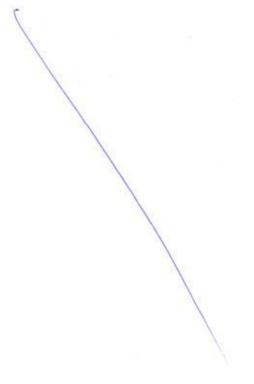
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3.5. SERC REGULATIONS

Regulations were enacted by the Regulatory Commission in compliance with the provisions of the EA 2003 and as guided by the National Tariff Policy and National Electricity Policy. Some of the key regulations which were enacted by the Uttar Pradesh Electricity Regulatory Commission in regard to the Distribution Utilities are outlined below:

Table 3.1: Regulations

S.No.	Name of the Regulation
1.	Uttar Pradesh Electricity Supply Code – 2005
2.	Uttar Pradesh Electricity Regulatory Commission (Multi Year Distribution Tariff) Regulations, 2014
3.	U.P. Electricity Regulatory Commission (Terms and Conditions for Determination of Distribution Tariff) Regulation-2006
4.	Uttar Pradesh Electricity Regulatory Commission (Terms and Conditions for Open Access) Regulations, 2004
5.	Uttar Pradesh Electricity Regulatory Commission (Fees and Fines) Regulations, 2010
6.	Uttar Pradesh Electricity Regulatory Commission (Procedure, Terms & Conditions for payment of Fee and Charges to State Load Dispatch Centre and other related provisions) Regulations, 2004





4. OPERATIONAL PLAN

Kesco has prepared the Business/Operational Plan taking into consideration all the factors which would affect the operations of the company. It is submitted that the Business plan being a dynamic document may need to be updated at periodic intervals taking into account the changes in the internal and external environment and these changes would be intimated to the State Commission from time to time. The operational plans include the estimates of each capital expenditure scheme of Kesco from FY 2017-18 to FY 2019-20.

The thrust of the capital investment plan is to achieve aggressive loss reduction through technology intervention, process and efficiency improvement while maintaining reliable distribution system and quality of supply to consumer.

Possible benefits can also include reducing dependency on expensive imports of fuel, reducing energy cost, and reducing harmful emissions to the environment. Finally, DSM has a major role to play in deferring high investments in generation, transmission and distribution networks. Thus DSM applied to electricity systems provides significant economic, reliability and environmental benefits. Opportunities for reducing energy demand are numerous in all sectors and many are low-cost, or even no cost, items that most enterprises or individuals could adopt in the short term.

Large investments have been planned in order to reduce T&D losses and to maintain reliable supply. In past the desired results could not be obtained due to severe fund constraints. To achieve the desired objective an aggressive investment plan has been envisaged. While in most of the schemes the objective is to strengthen/up-grade the distribution system, some scheme will also help in reducing AT&C losses, the full benefit of the capital expenditure incurred in respect to the reduction of AT&C losses will however accrue over a period of next few years. The proposed expenditure plan has been aimed with following objective:

- Strengthening and refurbishment of system to improve the reliability of supply.
- Undertaking system improvement to meet the demand growth.
- For reducing the distribution losses.
- Carry out automation and other improvement work to enhance customer service.
- Undertake investment to cater social need such as electrification in left over area of villages.
- Carry out customer deposit work.

The various schemes under which the capital expenditure programs are envisaged are detailed below;

- Rural Feeder Separation: The Discoms have undertaken rural feeder separation programme to ensure seamless 14 hour supply to the agriculture sector.
- b) R-APDRP -

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Part-A of the scheme includes the project for establishment of base line data and IT application for energy accounting /auditing and IT based consumer service centre. Part-B shall include regular distribution strengthening projects. The activities covered under each part are as follows:

Part -A of the scheme essentially covers the application of information technology in distribution utilities across the country. The scheme shall involve implementation of IT modules for data acquisition, new connections/disconnection, energy accounting & audit, Overloading and unbalancing of Distribution Transformer, network analysis management, Maintenance management, Asset management, MIS, metering, billing, collection etc. The programme also encompasses implementation of SCADA/DMS, GIS based Consumer Indexing & Asset mapping etc. This entire exercise is being aimed to establish Base line Data collection system for the distribution utilities through which they would be able to capture AT&C losses in a precise manner without manual intervention and also to plan & implement corrective measures in Part B

Part-B of the scheme covers system strengthening, improvement and augmentation of distribution system. This involves:-

- Identification of high loss areas
- o Preparation of investment plans for identified areas
- Implementation of plan
- Monitoring of Losses
- c) Laying of Aerial Bunch Conductors Replacement of the overhead bare conductors by aerial bunch conductors, which are less theft prone. Unauthorized consumption of electricity is the most important area of concern for the petitioner. The major component of losses in distribution is commercial losses, which is primarily due to theft. In order to reduce the same the existing over head lines are envisaged to be replaced by Arial Bunched Conductors (ABC) which is less prone to theft.

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- d) Construction of new and enhancement of capacity of existing 33kV/11kV substations to meet the increased load demand and ensuring reliable supply, prevention of frequent failures due to overloading and reduction of technical losses.
- e) Addition of Distribution Transformers vi. Replacement of worn-out poles and installation of new poles. vii. Installation of new meters including double metering of big ticket consumers viii. Electrification of balance villages under the RGGVY scheme ix. Energisation of Private Tubewells with power efficient pumps x. Electrification works under Dr. Ambedkar Gram Sabha Vikas Yojana under which the majras of the Gram Sabha are electrified. xi. Distribution Automation: It is envisaged that 33kVand 11kV feeders shall be automated through distribution SCADA system in phases to monitor automatically the operation of feeders for over loading of feeders, tripping etc.
- f) Together with the feeder separation program, installation of HVDS systems and upgrading of distribution system would result in energy efficiency improvement, commercial loss reduction and associated revenue increase for the distribution companies.
- g) Rural Electrification Program- RGGVY contemplates electrification of villages and strengthening the existing network in the rural areas to achieve universal access to electricity for all households. Under this scheme following work is performed:
 - Electrification of un-electrified hamlets
 - Strengthening of Distribution system under RGGVY for providing electricity to all BPL household
 - Electrification of villages electrified as per CEA
 - Conversion of villages/hamlets electrified from LT mains to HVDS
 - Providing electricity to all rural households including free connection to BPL households
 - Strengthening of Rural electricity Distribution backbone
 - Electrification of remote villages (Stand alone)

Under RGGVY, program central government provides a grant of 90% of the project cost for each scheme of village electrification and the balance 10% of the fund is provided by the State Government. However, the GoUP provides entire fund required for schemes under the RGGVY programme in the form of equity to the DisCom.

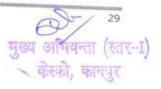
h) Metering of Consumer: Large number of meters is required for providing new connections as well as for replacement of defective meters for effective energy accounting. At present large section of the consumers are not correctly metered due to defective metering. This needs immediate replacement. Presently the Petitioner is releasing all the new connections with meters. In addition to investment on replacement and installation of meters, investment in

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respect of installation of 3-phase meters and investment in respect of double metering of high value consumers is being undertaken in the current year and is also projected in the ensuing year. The Petitioner hereby that it has proposed a comprehensive metering plan for its entire consumer base and targets the same to be executed by FY 2019.

- i) A large part of the distribution network is very old and needs major overhauling or replacement. Petitioner has identified some major assets that are in dire need of replacement. Major items covered under the requirement of replacement are poles, overhead conductors, wires, and switchgears. This is important for reducing losses and in reduction of occurrence of accidents
- j) Apart from replacement of the old and dilapidated assets there are ongoing requirement of network and infrastructure augmentation to cater to the load growth occurring due to regular increase in load in existing set-up as well as due to large-scale electrification of rural areas. Also, there is a significant requirement of improving the systems and processes of the distribution business of the petitioner to achieve better efficiency of operations, e.g. billing accuracy and procedure, material and financial management etc. Therefore the petitioner has also planned to invest significantly in IT systems for achieving such objectives.
- k) With implementation of various Demand Side Management (DSM) and Energy Efficiency measures in various sectors such as agriculture, municipalities, buildings, domestic, industries a considerable quantum of electricity can be saved. The DSM has been traditionally seen as a means of reducing peak electricity demand. In fact, by reducing the overall load on an electricity network, DSM has various beneficial effects, including mitigating electrical system emergencies, reducing the number of blackouts and increasing system reliability. Scope of various activities under different sectors to take DSM measures are summarized as follows:

Area	Activities
Municipal Sector	(i) Lighting (ii) Pumping (iii) PF Correction
Agricultural Sector	(i) Lighting (ii) Pumping
Government Buildings	(i) Air Conditioning (ii) Lighting (iii) PF Correction
Multistory Complexes	(i) Energy Efficient Building Construction
Commercial Buildings	(i) Lighting

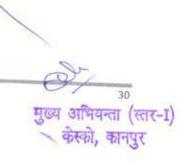


Area	Activities
	(ii) PF Correction
Industries	(i) Energy Efficient Appliances (ii) PF Correction
Promotion of Solar Power	(i) For all sectors
Reduction of T&D Losses	(i) On Substations (ii) Distribution Network
Efficiency Improvements in Thermal Power Stations	(i) All State Generating Units

4.1. PROPOSED CAPITAL EXPENDITURE FOR FY 2017-18 TO 2019-20

Regulation 23A of the MYT Distribution Tariff Regulations, 2014 provides for consideration of capital expenditure for the purpose of determination of ARR for the Control period. In line with the regulations, the Petitioner has projected the capital expenditure during the control period on account of each of the schemes to be executed. Further the Petitioner by way of this Petition is seeking Hon'ble Commission approval for the schemes for which the capital expenditure has been proposed for more than Rs. 10 crore. Further the financing plan for each of the capex scheme proposed by the Petitioner for the Control period has been detailed in the succeeding sections. Also the Petitioner has projected the capital expenditure to be done from the deposit works received as consumer contribution towards cost of capital asset. The procedure prescribed by the MYT Distribution Regulations towards claiming the capital investment plan has been strictly complied in the current Petition. The physical and financial progress of the ongoing and new capex schemes has also been provided in the MYT Business Plan.

The Discom is in the process of strengthening its Distribution Network to meet the load growth requirement of Uttar Pradesh. The outlay in the current year is mostly against ongoing works considering physical progress of those schemes. For new schemes pre-project activities are initiated like feasibility study, financial sanction from BOD and ETF. Where tenders are issued and evaluated based on the financial sanction, the work orders are placed for project executions. On commencement of project execution, schemes are shifted from the database of new schemes to ongoing schemes during a quarterly project review.



4.2. ONGOING AND NEW CAPITAL WORKS

Ongoing and New Capital Works record has been consolidated under different head of capital expenditure wherein the capital expenditure funds are sanctioned including Business Plan, Vypar Vikas Nidhi, PTW, Dr. Ram Manohar Lohiya, R-APDRP - Part B Scada, DDUGJY, IPDS, Under Ground Caballing and IPDS. The Ongoing work has been shown in the table given below. The table below provides detailed breakup of each of the scheme along with the Physical Target and Proposed Capital Expenditure.

Table 4.2-1: Ongoing Capital Expenditure Works (Rs Crore)

SI.No.	Name of Scheme	Unit	2016-17	
	COADA		Physical	Finance
1	SCADA			50.00
2	Replacement of damage/very old 11 kv OCB/VCB and other equipments as well as replacement by high capacity/Metering of Bulk consumers from LT to HT	Nos.	40	2.00
3	Underground Cabling Work - 11 kv & 33 kv/LT	Km.	1	18.00
4	Workshop & Store strengthening/Civil building work	1000000		
5	Deposit Works	Nos.		10.20
1000	Seposit Horks			11.23
	Total			91.43

Table 4.2-2: New Capital Expenditure Works Proposed for FY 2017-18

SI.No.	Name of Scheme	44-14		Rs Crore)
	Capital	Unit		7-18
(A)	Business Plan		Physical	Finance
	33 KV Work			
	Construction of 33 KV Link Line/Double Supply	V m /81		
	Digitization and Asset Mapping, Business Intellingues too	Km./Nos.		90.00
	Consumer mapping (Enterprise resource planning)	Nos.		25.00
	Installation of MDAS in KESCo	Nos.		
	Consultancy services for making revised electrification master	1405.		1.00
	plati of Kanpur Nagar.	Nos.		0.25
	Total			116.25
	33/11 KV Line guarding & HT/LT line replacement	Km.	600.00	The second second second second
/m1	33 KV/11 KV Works Under Business Plan	13(1)	000.00	75.00
(B)	Vyapar Vikas Nidhi			191.25
	Replacement of damage/very old 11 kv OCB/VCB and other equipments as well as replacement by high capacity/Metering of Bulk consumers from LT to HT	Nos.		5.00
	Total			
	L.T. ABC			5.00
	Underground Cabling Work - 11 kv & 33 kv/LT	Km.		
	Total	Km.		15.00
	TOTAL Vyapar Vikas Nidhi			15.00
(C)	Other Works			20.00
	Civil Works - Construction of Buildings & Boundry Walls offices & Colonies		111111111111111111111111111111111111111	10.00
	Total			10.00
	Grand Total B.Plan+V.V.N.+Other Works			10.00
	Deposit Works			221.25
	Grand Total			30.98
				252.23

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Table 4.2-3: New Capital Expenditure Works Proposed for FY 2018-19

S No	Name of Scheme	-tomorphism -	(1	Rs Crore)
(A)	Business Plan		Physical	Financ
	Control Room			
	Laying of optic fibre			10.00
	Strengthening of 11 KV line			25.00
	Strengthening of L.T. line. (Replacment of damages	Km.		10.00
-	etc.	Km.		20.00
	Replacement of damage/very old 11 kv OCB/VCB and other equipments as well as replacement by high capacity. Total	Nos.		5.00
	L.T. ABC			70.00
	Underground Cabling Work - 11 kv & 33 kv	Km.		10.00
	33 KV/11 KV Works Under Business Plan	Km.		20.00
(B)	vyapar Vikas Nidhi			100.00
	33 KV Work			
	Replacement of (33 KV) damaged conductor, poles,			
	Substaion apparatus etc.) Total	Km./Nos.		10.00
	11 KV New work			10.00
	Strengthening of 11 KV line			20.00
	Strengthening of L.T. line (Replacement of A.	Km.		15.00
	etc. Additional pole in long span & other access	Km.		10.00
	Total			
	L.T. ABC			25.00
	Underground Cabling Work - 11 kv & 33 kv/LT	Km.		2.00
	iotai	Km.		15.00
	TOTAL Vyapar Vikas Nidhi			17.00
(C)	Other Works			52.00
	Civil Works - Construction of Buildings & Boundry Walls offices & Colonies			5.00
	Workshop & Store strengthening/Civil building work			5.00
-	Trovision of New Cash Vane	Nos.		5.00
-	Provision of New Billing Centers			2.00
	Total	Nos.	-	2.00
	Grand Total B.Plan+V.V.N.+Other Works			14.00
	Deposit Works			166.00
	Grand Total			23.24
				189.24

Table 4.2-4: New Capital Expenditure Works Proposed for FY 2019-20

SNo	Name of Scheme			(Rs Crore
(A)	Business Plan		Physical	Finance
1	33 KV Work			manice
	Constrution of New 33/11 KV Substation and its			
	ussociated 33 KV lines	Nos.		
	Constrution of New 33/11 KV G I Substation and its	1405.		15.00
	associated 33 KV lines	Nos.		22.00
	Replacement of (33 KV) damaged conductor, poles,	11000		30.00
	Substation apparatus etc.)	Km./Nos.		ana-varing
	Total			10.00
	L.T. ABC			55.00
	Underground Cabling Work - 11 kv & 33 kv	Km.		20.00
	33 KV/11 KV Works Under Business Plan	Km.		25.00
B)	Vyapar Vikas Nidhi			100.00
	33 KV Work			200.00

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S No	Name of Scheme			
	Replacement of (33 KV) damaged conductor, poles,	THE REAL PROPERTY.	Physical	Finance
	Substaion apparatus etc.)	Km./Nos.		10.00
	Strengthening of L.T. line (Replacement of dames	200000000000000000000000000000000000000		10.00
	access etc.	Km.		10.00
	Replacement of damage/very old 11 kv OCB/VCB and			
	other equipments as well as replacement by high capacity/Metering of Bulk consumers from LT to HT	Nos.		3.00
	Total			
	L.T. ABC	14		13.00
	Underground Cabling Work - 11 kv & 33 kv/LT	Km.		2.00
	Total	Km.		20.00
	TOTAL Vyapar Vikas Nidhi			22.00
(C)	Other Works			45.00
	Civil Works - Construction of Buildings & Boundry Walls offices & Colonies			4.500
	Total			5.00
	Grand Total B.Plan+V.V.N.+Other Works			5.00
	Deposit Works			150.00
				21.00
	Grand Total			171.00

5. YEAR WISE CAPITAL INVESTMENT AND FINANCING PLAN

The capital expenditure planned under Business Plan, Vypaar Vikas Nidhi and RML schemes is done through complete funding of State budget, however for the purpose of this Business Plan, the projected capital expenditure is considered to be funded in a debt equity mix of 70:30, being in line with the MYT Distribution Tariff Regulations and established philosophy of the Hon'ble Commission. The Petitioner has considered a normative gearing of 70:30. Considering this approach, 70% of the capital expenditure undertaken in any year has been considered to be financed through loan and balance 30% has been considered to be financed through equity contributions. The portion of capital expenditure financed through consumer contribution, capital subsidies and grants has been separated as the depreciation and interest thereon would not be charged to the beneficiaries. The year wise phasing of the capital investment is provided in the table below.

Table 5-1: Year wise Phasing of the Capital Investment

(Figures in Rs Crore)

gures in Rs Total	Deposit Works	Equity / Internal Accruals	Loans	FY
91.43		24.06	56.14	2016-17
91.43	11.23		154.88	2017-18
252.23	30.98	66.38		2018-19
189.24	23.24	49.80	116.20	2019-20
171.00	21.00	45.00	105.00	

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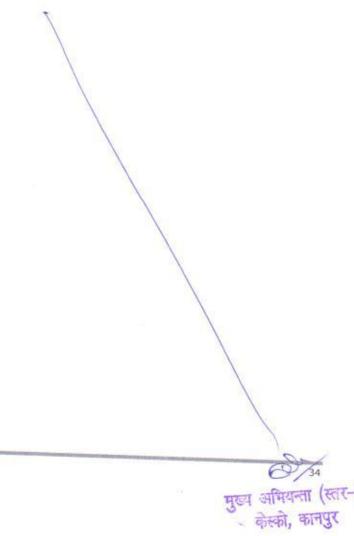
Note: The figures provided are in respect of capital investment proposed to be undertaken in each financial year. In case of certain schemes, the capital expenditure as well as the capitalisation would spill over beyond the plan period. Similarly at the start of the plan period, there are opening CWIP balance in respect of certain schemes which would get completed in the plan period.

Other assumptions for capitalisation of the aforementioned Capital expenditure plan is detailed as below:

The assumptions used for projecting GFA and CWIP are as follows:

- 40% the opening CWIP and 40% of investment made during the year, expenses capitalized & interest capitalized (40% of total investment) has been assumed to get capitalized during the year.
- Investment through "deposit work" has been taken for capital formation. However depreciation thereon has not been charged to the ARR in line with the policy adopted by Hon'ble Commission in its previous Tariff Orders.

The capital investment plan (net of deposit works) has been projected to be funded in the.



6. LOAD FORECAST AND REVENUE ASSESSMENT

The Petitioner has projected the category-wise load growth based on the CAGR of the last eight years data and considering factors like available population data, expected conversion of unauthorized connections, connected load factor and specific growth factors. While projecting the data for past years, wherever the data was incongruous such incongruity was ignored while projecting the load growth for the ensuing years. The forecast projects the specific consumption level (consumption per customer) appropriate for each customer category. This forecast is based on expected growth relationships to income and price, the effect of Demand Side Management and the impact of hours of service. The specific consumption level along with the number of customers in each category gives the sales figure for that particular sub-category. The final detailed calculations estimate the connected load by tariff category. The division level forecasts are consolidated and losses are added to the sales estimates to determine energy generation requirements.

The schematic diagram for Energy flow in state of UP is depicted in figure below:

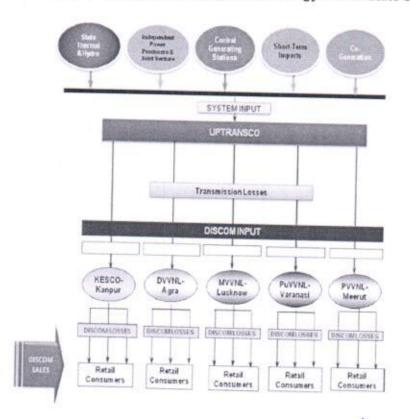


Table 6-1: The schematic diagram for Energy flow in state of UP

6.1 DETAILED METHODOLOGY FOR LOAD FORECAST

6.1.1 OVERVIEW

Sales and Load Forecasting involves firstly, building robust and accurate sales forecast and load forecast models that are able to predict energy sales within reasonable margins of error and secondly, application of the models so prepared to provide long term forecast of energy sales to various consumer sub categories (based on tariffs applied) and the total energy requirement to meet the demand.

6.1.2 METHODOLOGY

The following methodology was followed for Sales and Load Forecasting:

Consumer category wise commercial data of each discom comprising Number of consumers/ Connected load (kW)/ Energy sales (billed energy): kWh, split between rural/urban consumers was tabulated for the past years. Further as the provisional billing determinants were available for FY 2016-17, the same has been considered while computing the multiplying factor for the purpose of projection of demand, connected load and no. of consumers for the MYT period. Also it would be imperative to mention that since all UPPCL discoms have been moving aggressively towards the target of 24x7 Power for All by Oct, 2018 and accordingly in the last financial year the supply hours for rural and domestic consumer have also been increased as a first step. Thus wherever the billing determinants in terms of Connected Load per Consumer, Consumption per connected Load, Consumer per consumer, etc being considered as a CAGR for previous year is low in comparison to the no. so derived for FY 2016-17, the Petitioner for the purpose of MYT Projections has considered the FY 2016-17 as the norms for determining the billing determinants for the MYT period.

3 years' (2013-14 to 2015-16) compounded annual growth rate (CAGR) was determined for the following parameters consumer sub-category wise:

- · Number of consumers
- Connected load: kW
- Energy sales (billed energy): kWh

CAGR for each of three major commercial parameters for 3/5/7/10 years was determined consumer category-wise.

Running hour factor: Load shedding affects different consumer categories differently. Its effect was taken into account through a factor of present running hour supply and projected hour supply.

However, no adjustment on account of load shedding was made in case of the following:

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- a) Following consumer categories:
 - Industrial
 - Agricultural (assuming that the water output of agricultural pump sets in the limited hours of supply is enough for meeting the irrigation requirements)
 - Railway traction

The Energy Billed was calculated by applying the factor to the remaining consumer categories in all areas. This was done step-wise as follows:

- b) Projecting the running hours supply;
- Obtaining the factor of running hours supply between present supply hours and projected hours supply;
- Sub-category Energy billed in % tabulated by way of Mahanagar, Commissionary,
 Districts, Bundelkhand and Rural Area according to the prevailing classification of the Areas; and

Table 6-2: Projected Hours of Supply

Description	2017-18	2018-19	2018-19	2019-20
	Apr-Mar	Apr-Sep	Oct-Mar	Apr-Mar
Mahanagar	24:00	24:00	24:00	24:00
District	24:00	24:00	24:00	24:00
Commissionary	24:00	24:00	24:00	25,200,8074
Rural	18:00	18:00	24:00	24:00
Bundelkhand	20-00		A CONTRACTOR OF	24:00
THE PERSON NAMED IN	20:00	20:00	24:00	24:00

Demand Side Management - Category wise energy Billed was calculated by applying the DSM factor.

Following three ratios were determined for each set of commercial data of a given consumer category/ sub-category for each year:

- e) Energy sales per consumer
- f) Connected load per consumer
- g) Energy sales/Connected load

Sales Forecasting: LV Consumers – Sub-category-wise

a) Number of consumers:

Adopted appropriate value of CAGR in the following manner:

- Normally 3 years' CAGR of number of consumers (sub-category wise)was adopted
- Wherever calculated value of 3 years' CAGR of number of consumers seemed unreasonably high or low, the most reasonable calculated value between 5/7/10 years' CAGR was adopted. The adopted value of CAGR was applied across all sub-categories within a given consumer category.
- Applied the CAGR so adopted to determine forecasted values of number of consumers, taking 2016-17 as the base year.

b) Connected load:

Multiplied number of consumers by the highest ratio of connected load per consumer calculated for the last three years to determine consumer sub-category wise connected load forecasts corresponding to forecasted values of number of consumers.

c) Energy Sales:

i. LMV 1 & LMV 10 Consumer categories:

Forecasted value of energy sales for each consumer sub-category was determined by multiplying the number of consumers by the highest value of energy sales per consumer for the last three years. Wherever the highest value of energy sales per consumer was found to be unreasonably high, the second highest value of the above ratio was adopted as the multiplier for determining energy sales corresponding to the forecasted value of number of consumers.

ii. LMV Consumer categories (metered)other than LMV1 & LMV10 consumer categories:

Adopted the highest value of energy sales per kW connected load for a given consumer sub-category for the last three years as the multiplier to obtain forecasted value of energy sales corresponding to the forecasted value of connected load.

iii. LMV: Unmetered consumers (except rural state tube wells):

Forecasted value of energy sales for a given consumer sub-category was obtained by multiplying the forecasted value of connected load by the standard value of energy sales per kW connected load laid down in the norms.

iv. Rural state tube wells:

Forecasted value of energy sales was obtained by multiplying the forecasted value of number of consumers by the standard value of energy sales per consumer laid down in the norms as below:

Table 6-3: Consumption Determinant for Un-Metered Consumer

Sr.No	Category of Un-Metered Consumer	Units	Consumption of Energy Per Month
1	Private Tube Well	KWh/KW/Month	183.32
2	Domestic Rural Consumers	KWh/KW/Month	144
3	Rural Commercial Consumers	KWh/KW/ Month	144
4	Rural State Tube Well	KWh/Consumer or Pump/Month	7124.71
5 -A	Street Light - Rural Area	KWh/KW/Month	300
5 -B	Street Light - Urban Area	KWh/KW/Month	360

Sales Forecasting: HV Consumers - Sub-category-wise

a) Connected Load:

Forecasted value of connected load for a given sub-category for a given year was determined by applying the 3 years' CAGR of connected load calculated for the particular consumer sub-category, taking 2016-17 as the base year. Wherever the 3 years' CAGR appeared unreasonably high or low, the figure from amongst CAGR of connected load for a given consumer category calculated for 5/7/10 years that seemed most reasonable, was adopted as the CAGR to be used for forecasting. This value of CAGR was applied to all sub-categories comprising a given consumer category.

b) Number of consumers:

Forecasted number of consumers corresponding to the forecasted value of connected load for a consumer sub-category in a given year was determined by dividing connected load by the value of connected load per consumer calculated of the preceding year.

c) Energy sales:

 Year wise and sub-category wise energy sales forecasts were obtained by multiplying the forecasted value of connected load by the highest ratio of energy sales per kW connected load of the last three years.

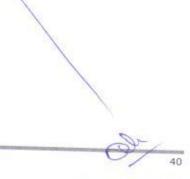
- Year wise and sub-category wise energy sales forecasts were obtained by multiplying the forecasted value of sales MU by the running hour factors.
- Year wise and sub-category wise energy sales forecasts were obtained by multiplying the forecasted value of sales MU by the DSM factors.

6.1.3 PROJECTED GROWTH IN NO. OF CONSUMER

The table below represents the % growth in no. of consumer for the Discom considering the consumer addition plan provided in sections above:

Table 6-4: % Growth in No. Of Consumers

Consumer Category	Kesco -%	Growth of Co	nsumers
	FY 2018	FY 2019	FY 2020
LMV-1: Domestic Light, Fan & Power	8%	8%	8%
Other Metered Domestic Consumers	8%	8%	8%
LMV-2:Non Domestic Light,Fan & Power	6%	6%	6%
Non Dom: Other Metered Non-Domestic Supply	6%	6%	6%
LMV-3: Public Lamps	0%	0%	
LMV-4: Light, fan & Power for Institutions	5%	7.7.7	0%
Public Institution	5%	5%	5%
Private Institution	7.77	5%	5%
LMV-5: Private Tube Wells/ Pumping Sets	6%	6%	6%
LMV 6: Small and Medium Power upto 100 HP	0%	0%	0%
LMV-7: Public Water Works	5%	5%	5%
LMV-8: State Tube Wells & Pump Canals upto 100 HP	1%	1%	1%
MV-9: Temporary Supply	0%	0%	0%
	0%	0%	0%
.MV-10: Departmental Employees	0%	0%	0%
HV-1: Non-Industrial Bulk Loads	3%	3%	3%
HV-2: Large and Heavy Power above 100 BHP	2%	2%	2%
IV-3: Railway Traction	0%	0%	0%
HV-4: Lift Irrigation & P. Canals above 100 BHP	0%	0%	
GRAND TOTAL	8%	8%	0% 8%



6.1.4 PROJECTIONS FOR INPUT ENERGY

a. % Distribution Losses:

Approximate distribution losses figures in % for the MYT period are provided two years were assumed as given in the following table:

Table 6-5: Distribution Losses Trajectory

Discom	2015-16	2046	Name and Address of the Owner, when the Owner, which the Owner, whi	Orango Mariana Santa Artic	
(三年)	2013-10	2016-17	2017-18	2018-19	2019-20
Meerut	18.66%	18.55%	10.400		
Agra	27 700		18.18%	15.20%	11.80%
Lucknow	27.79%	28.44%	20.07%	16.25%	12.10%
	22.24%	22.21%	19.16%		12.10%
Varanasi	23.02%	AND AND AND ADDRESS OF THE PARTY OF THE PART	19.10%	16.09%	11.80%
KESCO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21.63%	19.73%	16.43%	12.20%
	20.13%	15.60%	15.20%		and the second
			2012070	15.05%	11.74%

b. Transmission Losses:

Intra-state and inter-state transmission losses, to be added to the power delivered at the discoms at their input points to arrive at the energy required at the power plant bus bars, have been taken as 5.41% for FY 2017-18, 5.14% for FY 2018-19 and 4.89% for FY 2019-20.

c. Allocation of Additional Energy:

The difference of Energy Requirement and available at discom level was allocated to all categories except HT, Agriculture and Railway on the basis of existing share in sales.

6.1.5 INPUT ENERGY REQUIREMENT

Input energy requirement was determined from Energy Billed using the following relationship:

Input Energy = Energy Billed ÷ (1-% Technical & Distribution Loss)

Table 6-6: Input Energy Requirement At DisCom Level

Discom	2015-16	2040	S Ev-Erganostinus (* - 2004)					
STATE OF THE PARTY	2013-10	2016-17	2017-18	2018-19	2019-20			
Meerut	26,926	31,113	36,702	The state of the s				
Agra	20,418	22.722	250,000	42,735	47,684			
Lughan		22,732	25,323	30,268	33,777			
Lucknow	16,361	18,972	24,667	31,763				
Varanasi	20,638	22.220	127.5.100000	31,763	37,652			
	20,038	23,339	30,793	35,969	40,094			

Discom	2015-16	2016-17	2017-18	2018-19	2019-20
KESCO	3,584	3,686	STATE SERVE		2019-50
Total		3,000	4,468	4,967	5,321
Total	87,927	99,843	121,953	145,702	164,528

6.1.6 SALES FORECASTS FOR 2017-18 TO 2019-20

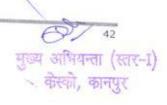
The billed energy was required to be worked out on the basis of the availability of energy for the current year and the next year, which are as follows:

Table 6-7: Sales Requirement At DisCom Level

Discom	2015	- Constitution of the last				
	2015-16	2016-17	2017-18	2018-19	2019-20	
Meerut	21,903	25,343	30,030	36,240	A PROPERTY OF	
Agra	14,743	16,267	1-2000-02000		42,057	
Lucton	U 201/12/2017 00 CO	10,207	20,241	25,350	29,690	
Lucknow	12,722	14,759	19,942	26,652	33,209	
Varanasi	15,888	18,291			33,209	
KESCO		MESC	24,717	30,058	35,202	
KLSCO	2,863	3,111	3,764	4,194	4,671	
Total	68,118	77,771	00.504	2506,70300	7,0/1	
	//220	////1	98,694	122,494	144,830	

Table 6-8: Energy Balance

Energy Balance Input Energy Requirement	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	EV 2010 20
Transmission losses%	93,601	107,569	128,908	153,577	FY 2019-20
Input Energy Requirement At DisCom	6.07%	7.30%	5.41%	5.14%	172,955
Level Level	87,927	99,843			4.89%
Meerut			121,928	145,677	164,503
Agra	26,926	31,113	36,702	42,735	ALESCO MANDERON
Lucknow	20,418	22,732	25,323	30,268	47,684
Varanasi	16,361	18,972	24,667	The state of the s	33,777
KESCO	20,638	23,339	30,793	31,763	37,652
Consumer Sales (MU)	3,584	3,686	4,443	35,969	40,094
Meerut Sales (MO)	68,118	77,771	98,694	4,942	5,296
Agra	21,903	25,343		122,494	144,830
Lucknow	14,743	16,267	30,030	36,240	42,057
	12,722	14,759	20,241	25,350	29,690
Varanasi	15,888	The second secon	19,942	26,652	33,209
KESCO	2,863	18,291	24,717	30,058	35,202
Distribution Losses (% of Energy		3,111	3,764	4,194	4,671
Received)	22.53%	22.11%	19.06%	15.010/	Comment Statement
Meerut	18.66%	10.550		15.91%	11.96%
Agra	27.79%	18.55%	18.18%	15.20%	11.80%
ucknow	22.24%	28.44%	20.07%	16.25%	12.10%
/aranasi		22.21%	19.16%	16.09%	11.80%
(ESCO	23.02%	21.63%	19.73%	16.43%	
	20.13%	15.60%	15.28%	15.13%	12.20% 11.80%



6.2 SALES FORECAST

The year 2017-18 is expected to see a substantial jump in the total availability of energy at the source power plant bus bars at around 1,28,935 MU when compared to around 1,07,569 MU in 2016-17 for Uttar Pradesh as a whole. The demand of most consumer categories and discoms is presently constrained by availability which falls substantially short of demand. Hence, with increased availability of energy, the projected sales are expected to rise not only on account of natural load growth but also because of easing of supply constraints.

Total availability of energy for 2018-19 is around 1,53,603 MU and for 2019-20 is around 171,858 MU . The projected sales will be impacted by normal load growth and increased hours of supply.

a) LMV Consumers – Sub-category-wise

Adopted appropriate value of CAGR and 3/5/7/10 year's CAGR are as below:

Table 6-9: LMV Consumers Growth Rate

SUPPLY		S S S S S S S S S S S S S S S S S S S	CONSUMER NUMBER	- CAGR	SUPERIOR STATE	THE PROPERTY.	A STATE OF THE PARTY OF	STATE OF THE PARTY NAMED IN
TYPE LMV1			CATEGORY	Last 3 Year	Last 5	Last 7	Last 10	
PMAT	-	Rural		1.55140	Years	Years	Years	Assume
	500	Urban						
	(A)	Consur	ner getting supply as per "Rural Schedule"					
	-	1.7	Un-metered	0%	000			
	(0)	(ii)	Metered	0%	0%	0%	0%	00
	(B)	Supply	at Single Point for Bulk Load	0%	0%	0%	0%	09
	(C1)	Other	Netered Domestic Consumers	**************************************	0%	0%	0%	09
SUB	(C2)	Life Lin	e Consumers/BPL	6%	2%	2%	0%	89
TOTAL		DOMES	TIC LIGHT FAN & POWER (LMV-1)	0%	-100%	0%	0%	09
LMV2		Rural	TELEGRI FAN & POWER (LMV-1)	6%	0%	2%	2%	0%
		Urban						200
	(A) Consumer getting supply as per "Rural Schedule"							
		(i)	Un-metered Un-metered					
		(ii)	Metered	0%	0%	0%	0%	200
	(B)	Private /	Advertising/Sign Post/Sign Board/Glow	0%	0%	0%	0%	0%
	(B)	Sign/Fle	x Startishing/Sigit Post/Sigit Board/Glow	0%	-100%	100000000000000000000000000000000000000	0.70	
	(C)	Other M	etered Non-Domestic Supply	2010	-100%	-100%	0%	1%
SUB	N	ON DOM	стельного зарру	6%	-5%	-1%	0%	6%
TOTAL		ON DOM	STIC LIGHT FAN & POWER (LMV-2)	6%	-5%	201	5000	0 %
LMV3	Α	Rural		- 10	3 70	-2%	-1%	0%
	- 047 - II	Urban						
	(A)	Un-mete	red Supply					
		(i)	Gram Panchyat					
		(ii)	Nagar Palika & Nagar Panchyat	0%	0%	0%	0%	0%
		(iii)	Nagar Nigam	0%	0%	0%	0%	0%
	(B)	Metered	Supply	0%	0%	0%	0%	0%
		(i)	Gram Panchyat				070	0%
		(ii)	Nagar Palika & Nagar Panchyat	0%	0%	0%	0%	00/
		(iii)	Nagar Nigam	0%	0%	0%	0%	0%
SUB				0%	0%	0%	0%	1%
OTAL			PUBLIC LAMPS (LMV-3)	0%	0%			1%
MV4	A	Rural			0.70	0%	-1%	0%

SUPPL	Y	- F	CONSUMER NUM				THE PARTY OF	- COURT
TYPE			CATEGORY	Last		5 Last 7	Last 10	The state of
		Urba	an and a second	Yea	r Yea	rs Years	Years	Assu
	-	Rura	l e	_				-
		Urba						
	_	A) Publ	ic Institution(4 A)	12	0.5			Ü
SUB		3) Priva	ite Institution(4 B)	-12			0%	
TOTAL		LIGHT	FAN & POWER FOR PUBLIC/PRIVATE	1 2		% 12%	0%	
LMV5		Rura	INSTITUTION (LMV-4)	-40	/o -6	% -3%	-1%	
		Urba						
	(1		Schedule					
		(i)	Un metered Supply					
		(ii)	Metered Supply	09	6 0	% 0%	0%	
	(E		Schedule	09	6 00		The second second	
		(i)	Metered Supply				0.70	
SUB		DDTVAT		09	6 09	6 0%	0%	
TOTAL	-	PRIVAT	E TUBE WELL/PUMPING SETS (LMV-5)	0%	0 09	6 0%		
_MV6	-	Rural		3000	200	0 0%	0%	
	77	Urbar						
	(A	Small	& Medium Power (Power Loom)					
	-	(1)	Rural Schedule	0%				
	(B	(ii)	Urban Schedule	0%	-	0.70	0%	
3.0	1 IB	Small	& Medium Power	0.76	09	-100%	0%	
		(i) (ii)	Rural Schedule	0%	0%	00/		
SUB	SM	ALL & ME	Urban Schedule			0.70		
TOTAL		ALL OF 141	DIUM POWER UPTO 100 HP (75) (LMV	-	7/12/20	170	0%	
MV7		Rural	6)	13%	6%	7%	5%	
		Urban						- 1
	(A)	Rural S	Schedule					
		(i)	Jal Nigam					
		(ii)	Jal Sansthan	0%	0%	0%	0%	
	401	(iii)	Others (Water Works)	0%	0%	0%	0%	
	(B)	Urban	Schedule Works)	0%	0%	0%	0%	(
		(i)	Jal Nigam	000	-			
		(ii)	Jal Sansthan	-7%	0%	0%	0%	(
SUB		(iii)	Others (Water Works)	0%	-5%	1%	0%	1
OTAL		PL	BLIC WATER WORKS(LMV-7)		0%	-100%	0%	
4V8		Rural	TORKS(EMV-7)	-7%	-5%	-2%	0% -1% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0
		Urban				2000		
	(A)	The second second	Supply					
	(B)	Un-met	ered Supply	0%	0%	0%	004	-
		(i)	STW, Panchayat Raj, WB, I.Duch,				376	0
			P. Canais, LI unto 100 gun	0%	0%	001		
UB	-	(ii)	Laghu Dal Nahar akeus 400 min		- 3000	0%	0%	0
TAL	S	ATE TUE	WELLS & PUMPS CANAL LIPTO 100	0%	0%	0%	0%	0
V9		-	HP(LMV-8)	0%	0%	0%	00%	
-		Rural Urban					0%	00
	(A)	Metered	Const.					
	1.1	(i)						
		(ii)	Individual Residential Consumers	0%	0%	004		
	(B)		Others red Supply	0%	0%	-100%		09
		(1)	Ceremonies		370	-100%	0%	09
		(ii)	Temporary Shops	0%	0%	0%	000	
JB		2000 position		0%	0%	-100%		09
TAL		TE	MPORARY SUPPLY (LMV-9)	0%		- Table 1987	0.76	09
	(4)	Serving		0.70	0%	-100%	0%	0%
V	PATE I							
0	(A)	(i)	Class IV Employees					

SUPPLY	100		CONSUMER NUMBER	- CAGR	ALC: NO.	Section 1	1000 H 1000	OR OTHER DESIGNATION OF THE PERSON OF THE PE
TYPE		(ii)	Class III Employees	Last 3 Year	Last 5 Years	Last 7 Years	Last 10 Years	Assume
		(iii)	Junior Engineers & Equivalent	-5%	107%	63%	0%	09
		(iv)	Assistant Engineers & Equivalent	0%	-100%	-100%	0%	09
		(v)	Executive Engineers & Equivalent	0%	-100%	-100%	0%	09
	7	(vi)	Deputy General Manager & Equivalent	0%	-100%	-100%	0%	09
		(vii)	CGM/GM & Equivalent posts and	0%	-100%	-100%	0%	09
	(B)	P. GOVENIE	above	0%	-100%	-100%	0%	19
SUB	(B) Total Pensioner & Family Pensioner			-26%	58%	36%	0%	
TOTAL	DEPARTMENTAL EMPLOYEES (LMV-10)		-17%	55%	34%	0%	-17%	

b) HV Consumers - Sub-category-wise

Adopted appropriate value of CAGR for Load Forecast and 3/5/7/10 year's CAGR are as below:

Table 6-10: HV Consumers Growth Rate

SUPPLY			CONSUMER NUMBER - CA	GR	W. S. S. S. S.	ALCOHOLD DE	The same of the sa	-
TYPE HV1			CATEGORY	Last 3 Year	Last 5	Last 7	Last 10	
		Rural		real	Years	Years	Years	Assume
	(A)							
	10/	Urban Schedule (i)						
		(1)	For supply at 11kV	18%	00/	-		
- to-		(ii)	For supply above 11kV and upto & Including 66kV	13%	0%	0%	0%	2
		(iii)	For supply above 66kV and upto & Including 132kV	0%	Parago v		0%	139
	727	(iv)	For supply above 132kV	0.00000	0%	0%	0%	00
	(B)	Rural Schedule	SSPPI) GDOVE 132KV	0%	0%	0%	0%	00
		(i)	For supply at 11kV				0.70	0.
		(ii)	For supply above 11kV and upto &	0%	0%	0%	0%	09
SUB			I Including 66kV	0%	0%	0%	0%	09
HV2	THE PROPERTY OF	STRIAL BULK LOAD	S (HV-1)	18%	4.404			
HV2		Rural		10.70	14%	0%	0%	189
	24.4	Urban						97605
	(A)	Urban Schedule						
		(i)	For supply at 11kV					
- 1		(ii)	For supply above 11kV and upto &	3%				5%
		7.17	Including 66kV	0%				5%
		(iii)	For supply above 66kV and upto & Including 132kV	0%				0%
	101	(iv)	For supply above 132kV	-				2%
	(B)	Rural Schedule	Supply above 132kV	0%				001
		(i)	For supply at 11kV	0%				0%
		(ii)	For supply above 11kV and upto &	0%				0%
SUB		1,000	I ITICIUDIDO BEKV	0%				0%
TOTAL	LARGE & HE	EAVY POWER ABOVE	100 BHP (75 kW) (HV-2)	0.70				0%
HV3	DEATH SERVE	- TOTTER ABOVE	100 BHP (75 kW) (HV-2)	3%	3%	33%		2503790
		Rural		1000	3 /0	33%	5%	3%
	177 d 1 C 10	Urban				L.		
	(A)	For supply at the above 132kV		0%	004			
	(B)	For supply below 132kV		00000	0%	0%	0%	0%
		I TOEKV		0%				0%

SUPPLY	12 300		CONSUMER NUMBER - CA	GR	22651 8 7 5	MANAGE STATE	CISSES DO	ter bases
TYPE			CATEGORY	Last 3 Year	Last 5 Years	Last 7 Years	Last 10	Assume
	(C)	For Metro Traction			Tears	rears	Years	
SUB	RAILWAY	TRACTION (HV-3)		0%				09
HV4		Rural		0%	0%	0%	0%	0%
		Urban						
	(A)	For supply at 11kV		0%	0%	0%	-	
	5999	For supply above		0.70	0.56	0%	0%	0%
	(B)	11kV and upto 66kV		0%	0%	0%	0%	0%
	(C)	For supply above 66kV and upto 132kV		0%	0%	0%	0%	0%
SUB	LIFT IRRIG	ATION & P. CANAL ABO	OVE 100 BHP (75kW) (HV-4)	0%	001	255.00	788975	0.70
EXTRA STATE		Rural	(**************************************	0%	0%	-100%	0%	0%
	View	Urban						
	(A)	EXTRA STATE & OTHERS		0%				
SUB	EXTRA STA	TE CONSUMERS			0%	0%	0%	0%
BULK	desired to the second	Rural		0%	0%	0%	0%	0%
		Urban						
	(A)	NPCL				1		
	(B)	KESCO		0%				0%
SUB	BULK SUPP			0%				0%
- IAE				0%				0%

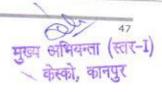
c) LMV Consumer Load

Adopted appropriate value of per Consumer Load of Previous Year -3, Previous Year -2, Previous Year -1 and Base Year for LV Consumer sub category are as below:

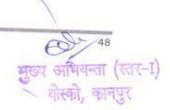
Table 6-11: Growth in LMV Consumer Load

SUPPLY			Per Consumer Lo	ad In KW	Section 1	NO STREET, STREET	NO. W. DOWN	THE RESERVE OF THE PARTY OF THE
TYPE	100	100	CATEGORY	Previous	Previous	Previous	Current	1000
LMV1		Rural	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, WHEN YOU WANT OF THE PERSON NAMED IN COLUMN TO	Year -3	Year -2	Year-1	Year	Assume
		Urban					Challadad Street	
	(A)	Consum	ner getting supply as per "Rural Schedule"					
	P 12	(i)	Un-metered	2				
		(ii)	Metered	0.000	0.000	0.000	0.000	0.000
	(B)	Supply	at Single Point for Bulk Load	0.000	0.000	0.000	0.000	0.000
	(C1)	Other M	etered Domestic Consumers	0.000	0.000	0.000	0.000	0.000
	(C2)	Life Line	Consumers/BPL	2.221	2.232	2.314	2.351	2.279
SUB				0.000	2.004	0.000	0.000	
TOTAL		DOMES	STIC LIGHT FAN & POWER (LMV-1)	2.221	2 200		T-028855 14	0.501
LMV2		Rural		2.221	2.209	2.196	2.351	2.244
		Urban						
	(A)	Consum	er getting supply as per "Rural Schedule"					
		(i)	Un-metered					
		(ii)	Metered	0.000	0.000	0.000	0.000	0.000
	(n)	Private A	dvertising/Sign Post/Sign Board/Glow	0.000	0.000	0.000	0.000	0.000
	(B)	Sign/Flex	(Board/Glow	2.400	2.422	83000	0.000	0.000
		4.100		2.400	2.436	0.000	0.000	1.209

SUPPL	v		Per Consumer L	oad In KW	NEWS SALE	SA SANDAR	03 (2 / h) 1 (2 / h)	CONTRACTOR OF THE PARTY OF THE
TYPE		Othor	CATEGORY	Previou Year -3		Previou Year-1	BOOK STORY STATE OF THE PARK AND ADDRESS OF THE PARK A	Assum
SUB	10		Metered Non-Domestic Supply	2.547	2.547	2.175	Year 2.828	10000000
TOTAL		NON D	OMESTIC LIGHT FAN & POWER (LMV-2)	2.545		1 - 1 - 1 - 1 - 1 - 1 - 1	1000000000	2.82
LMV3	3 A	Rural		2.343	2.545	2.175	2.828	2.52
	-	Urbar						
	(A)		etered Supply		-			
	-	(i)	Gram Panchyat	0.000	0.000	0.000		
	-	(ii)	Nagar Palika & Nagar Panchyat	0.000	0.000	0.000	0.000	0.00
	(B)	(iii)	Nagar Nigam ed Supply	742.722	764.889	856.500	0.000 856.500	0.00
	10)	(i)	Gram Panchyat			030.300	030.300	805.1
		(ii)	Nagar Palika & Nagar Panchyat	0.000	0.000	0.000	0.000	0.00
		(iii)	Nagar Nigam	0.000	0.000	0.000	0.000	0.00
SUB				0.000	0.000	0.000	0.000	0.00
TOTAL	-		PUBLIC LAMPS (LMV-3)	742.722	764.889	856.500	856.500	
LMV4	A	Rural			2000/01/2007/70		030.300	805.1
	- 0	Urban						
	В	Rural		-\				
	(A)		Institution(4 A)					
	(B)	Private	Institution(4 B)	10.002	8.594	10.515	17.790	10.04
SUB		LIGHT,	FAN & POWER FOR PUBLIC/PRIVATE	12.344	12.972	30.437	18.470	18.94 18.47
TOTAL		Sec. 375.00.40	INSTITUTION (LMV-4)	10.293	9.183	100 PACES	100	10.47
LMV5		Rural	11011(21114)		2.103	13.029	17.985	12.62
	111	Urban						
	(A)		chedule					
	-	(i) (ii)	Un metered Supply	0.000	0.000	0.000		
	(B)		Metered Supply Schedule	0.000	0.000	0.000	0.000	0.000
	101	(i)	Metered Supply		0,000	0.000	0.000	0.000
SUB				0.000	0.000	0.000	0.000	0.000
TOTAL		RIVATE	TUBE WELL/PUMPING SETS (LMV-5)	0.000	0.000		The second second	0.000
MV6		Rural	A Million Asia	0.000	0.000	0.000	0.000	0.000
	***	Urban				T- T-		
	(A)	Small &	Medium Power (Power Loom)					
		(1)	Rural Schedule	0.000	0.000	0.000		
	(B)	(ii)	Urban Schedule	7.091	0.000	0.000	0.000	0.000
	(0)	(i)	Medium Power		0.000	0.000	0.000	1.773
		(11)	Rural Schedule Urban Schedule	0.000	0.000	0.000	0.000	
SUB	CMAL			14.760	14.032	22.379	0.000	0.000
OTAL	SMAL	Lamed	IUM POWER UPTO 100 HP (75) (LMV-6)	14.749	14.032	13.880	Commercial Co.	15.783
MV7		Rural		October 198	- 11002	13.000	11.961	13.655
	(A)	Urban	1000 100 100					
	(4)	Rural Sc						
	-	(i) (ii)	Jal Nigam	0.000	0.000	0.000		
		(iii)	Jal Sansthan	0.000	0.000	0.000	0.000	0.000
	(B)	Urban Sc	Others (Water Works)	0.000	0.000	0.000	0.000	0.000
	-	(i)	Jal Nigam			0.000	0.000	0.000
	_	(ii)	Jal Sansthan	0.000	0.000	0.000	0.000	0.000
		(iii)	Others (Water Works)	31.663	31.369	58.402	69.882	0.000
SUB		DIII		0.000	0.000	0.000	0.000	0.000
IV8	-		BLIC WATER WORKS(LMV-7)	31.663	31.369	58.402		
V8		Rural				30.402	69.882	47.829
	(A)	Jrban						
	(B) (Metered S	oupply and Samuel	0.000	0.000	0.000		
	101	i)	ed Supply	5.000	0.000	0.000	0.000	0.000
		-/	STW, Panchayat Raj, WB, I.Duch,	0.000	0.000	0.000	and the same of th	



SUPPLY	BO ZAGO	T	Per Consumer Loa	d In KW	TO POST OF STREET	XTHE COSE	SHEET HEAT	THE COLUMN
TYPE			CATEGORY	Previous Year -3	Previous Year -2	Previous Year-1	Current	Assume
	_	(ii)	P.Canals, LI upto 100 BHP			T Cal 1	real	AND REAL PROPERTY.
SUB			Laghu Dal Nahar above 100 BHP	0.000	0.000	0.000	0.000	0.000
TOTAL		-	JBE WELLS & PUMPS CANAL UPTO 100 HP(LMV-8)	0.000	0.000	0.000	0.000	0.000
LMV9	_	Rural				0.000	0.000	0.000
		Urban						
	(A)		Supply					
	-	(i)	Individual Residential Consumers	0.000	0.000			
	-	(ii)	Others	0.000	0.000	0.000	0.000	0.000
	(B)	Un-mete	ered Supply	0.000	0.000	0.000	0.000	0.000
		(i)	Ceremonies	0.000				
		(ii)	Temporary Shops	0.000	0.000	0.000	0.000	0.000
SUB		т	EMPORARY SUPPLY (LMV-9)	0.000	0.000	-	-, +	-
LMV 10	(A)	Serving		0.000	0.000	0.000	0.000	0.000
		(i)	Class IV Employees	2.000				
		(ii)	Class III Employees	2.000	2.000	0.000	0.000	1.000
		(iii)	Junior Engineers & Equivalent	3.105	3.105	58.011	3.133	3.133
		(iv)	Assistant Engineers & Equivalent	6.000	6.000	0.000	0.000	3.000
		(v)	Executive Engineers & Equivalent	5.462	5.462	0.000	0.000	2.731
		(vi)	Deputy General Manager & Equivalent	5.000	5.000	0.000	0.000	2.500
		(vii)	CGM/GM & Equivalent poets and above	5.000	5.000	0.000	0.000	2.500
	(B)	Total Per	sioner & Family Pensioner	5.000	5.000	0.000	0.000	2.500
SUB				3.840	3.840	19.074	3.077	3.077
OTAL		DEPAR	TMENTAL EMPLOYEES (LMV-10)	3.217	3.217	18.045	3.106	6.896



d) ENERGY SALES ASSUMPTION

Adopted Appropriate value of Per capita Consumption Per Consumer, Per Capita Consumption Per KW of previous Year-3, previous Year-2, Previous Year-1 and Base Year and Un-Metered Sales norms are as below:

Table 6-12: Energy Sales Assumption

LMV1 8 (A) C (A) C (B) S (B)	CATE			THE RESIDENCE OF THE PARTY OF T	e capita consumption / Consumer	mer		PerCa	pita Consum	Per Capita Consumption on Load Sector	- Constitution	The state of the s	The second second	
(4)		CATEGORY	Previous Year-3	Previous Year - 2	Previous Year-1	Current	Average	Previous	Previous	Previous	Current		Unmetered	
	Rural							Year-3	Year-2	Year-1	Year	Average	As per Norms	Assumed
	Urban													
	Consumer getting supply as per "Rural Schedule"	supply as per		,										
	m-un (i)	Un-metered	,					•						
	(ii) Metered	pau					×			4	20	**	1,728	1,728
	Supply at Single Point for Bulk Load	aint for Bulk Load	,						1	×		,		
(C1)	Other Metered Domestic Consumers	hestic Consumers	2.427	3.354							4			
(C2) D	Life Line Consumers/Bpr	z/Bpr		1000	6,453	3,046	2,680	1,093	1,234	1,077	1,295	1,175		1,175
SUB DOMESTI	DOMESTIC LIGHT FAN & POWER CLANS	POWED CLANS.		997	1,766		508		133	*		33		33
-	Rural	(1-4-17)	4,437	2,512	2,455	3,074	2,620	1,097	1,137	1,118	1,307	1,165		1,165
5	Urban													
(A)	Consumer getting supply as per	upply as per												
	Rural Schedule			*	,		100		4					
(0)	/ Un-metered	parate		ė					0	-	1			
(4)	() Metered	72	5		8	-		-					1,728	1,728
(B) Pri	Private Advertising/Sign Post/Sign Board/Glow Sign/Flex	Sign Post/Sign	11,684	1,702	1	1							4	88
(5)	Other Metered Non-Domestic Supply	Domestic Supply	2 352	2.363			0,040	4,869	698		60	1,392		1,392
SUB NON DO!	NON DOMESTIC LIGHT FAN & POWER	AN & POWER	2,524	2.747	6,539	4,437	3,024	923	1,086	1,167	1,569	1,274	*	1,274
LMV-3 Rur	Rural				E000's	4,437	3,062	992	1,079	1,167	1,569	1,202		1,202
A	Lisham						#DIV/01		E			#DIV/OK		#Printer.
+	1000			,		68	#DIV/01	*				#Drozon		o la constant
-un (w)	un-metered Supply		94				#DIV/01							#01v/0

Citation	100				I I I I I I I I I I I I I I I I I I I				Z Lea	ipita Consum	Per Capita Consumption on Load Basis	ad Basis			
TYPE			CATEGORY	Previous Year-3	Previous Year -2	Previous Year-1	Current	Average	Previous	Previous	Previous	Current		Unmetered	
		8	Gram Panchyat		1				2 1001	Tear-Z	Year-1	Year	agelave	As per Norms	Assumed
		(11)	Nager Palika & Nager Panchyat	14						,	4	0	٠	3,600	3,600
		(iii)	Nagar Nigam	2,647,444	2722 222	3 73+ 880				×		4		4,320	4,320
	(8)	Metered Supply	Aldde	2		0000	000,676,2	2,769,139	3,565	3,559	3,190	3,473	3,447	4,320	4,320
		(1)	Gram Panchyat				,	#DIV/0		8,5	6	ř	#DIV/0!		#D1V/01
		(6)	Nagar Palika & Nagar Panchuse							a.	ï			×	
		(90)	Nagar Migam							1011		,			
SUB		PUBLIC L	PUBLIC LAMPS (LMV-3)	2.664.556			,	22	8		ı			8	
LMV4		Rural			202000000000000000000000000000000000000	4,733,356	2,975,000	2,778,833	3,588	3,559	3,215	3,473	3,459		3,459
	4	Urban		9			-	#DIV/DI					#DIV/DI		#DIV/01
	,	Rural						#DIV/08				1)	#D1V/01		#DIV/01
	D.	Urban						#DIV/01					#DIV/0!	3	#DIV/G
	(A)	Public Institution(4 A)	ution(4 A)	21,797	41 896	40.700		#DI/\/DI				2.	#D1V/01	6	#DIV/OI
1000	(B)	Private Institution(4 B)	tution(4 B)	35.734	36 46+	20,712	45,007	37,353	2,179	4,875	3,872	2,530	3,364		4,931
SUB	PUBLI	LIGHT, FAN	PUBLIC/PRIVATE INSTITUTION (1984-6)	23,531	41.031	30 536	48,556	32,864	2,895	2,734	1,042	1,546	2,054		2,054
LMV-5		Rural				n and an	40,483	36,105	2,286	4,468	3,037	2,240	3,008		3,008
		Urban						#DIV/0!	10				#DIV/0!		#DIV/OI
	(A)	Rural Schedule	ite					#DIV/0i			82		#DIV/0i		#01//01
		(1)	Un metered Supply												
		(1)	Meterod Supply								2			2,200	2,200
	(8)	Urban Schedule	ile				-								
		(0)	Metered Supply						1	1	1				
SUB	PRIV	ATE TUBE WE	PRIVATE TUBE WELL/PUMPING SETS (LMV-5)				e la							,	i i
1-VMJ		Rural												•3	
		Urban					1								
	(A)	Small & Mediu Loom)	Small & Medium Power (Power Loom)												
	100	0 111	Description Contractor							İ					

Viddil	,				Dine in the second	Cincal Inches	-		Per Ca	pita Consun	Per Capita Consumption on Load Basis	od Basis			
TYPE			CATEGORY	Previous Year-3	Previous Year -2	Previous Year-1	Current	Average	Previous Year-3	Previous	Previous	Current	Average	Unmetered	
		(8)	Urban Schedule	4,818				1.305	02.0	Y	rear-1	Year	and the same	Norms	Assumed
	(8)	Small &	Small & Medium Power					*/vena	6/9			63	170		170
		(1)	Rural Schedule			707.9									
		(6)	Urban Schedule	31.151	400	60,10	50	1,696	,	¥.	,				
SUB	SMA	ILL & MEDIU	SMALL & MEDIUM POWER UPTO 100 HP	Towns	40,438	39,784	26,665	31,512	2,111	2,027	1,778	2,229	2,036		310 5
(MV7		1	5) (LMV-6)	31,123	28,438	27,545	26,788	28,473	2,110	2.027	1.085	2 3 400	-		21
/ AL-		Rural									1,000	2,240	2,090		2,090
		Urban													
	(A)	Rural Schedule	edule												
		(1)	Jal Nigam												
		(10)	Jal Sansthan								w)				
		(111)	Others (Water Works)								20		ï		3
	(8)	Urban Schedule	edule									,		63	
		(0)	Jal Wgam		1										
		(11)	Jaf Sansthan	79,500	77.287	33 603						9	14	4	
		(1)	Others (Water Worke)			11,302	900'06	82,574	2,511	2,464	1,327	1,374	1,919		1.910
SUB	P	UBLIC WATE	PUBLIC WATER WORKS(LMV-7)	70 007				×						i i	
LMV8		Rural		sector.	187'11	77,502	98,023	83,202	2,527	2,464	1,327	1,403	1,930		1,930
		Urban													
	(A)	Metered Supply	Vido												
	(8)	Un-metered Supply	Supply				0 0				69	9,023	2,256		2,256
		8	STW, Panchayat Raj, WB, T.Duch, P.Canals, LI unto 100 Rep					#DIV/0i	c				#D1V/01	5	#D1V/03
		(11)	Laghu Dal Nahar above										.0	85,497	85,497
SUB	STAT	E TUBE WEL	STATE TUBE WELLS & PUMPS CANAL UPTO 100 HP(LMV-8)						10				0	85,497	85,497
LMV9		Rural					-			,			60		
		Urban													
	141														

Time State Cuttode National Protection Time	Suppry				Pe	r Capita Cons	Per Capita Consumption / Consumer	sumer	CONTRACTOR OF THE PERSON OF TH	Per Ca	bita Consum	ntion on the	-			
1 10 10 10 10 10 10 10	TYPE			CATEGORY	Previous Vear-3	Previous Year -2		BANK N	Average	Previous	Previous	Previous	Current		Unmetered	
			(8)	Individual Residential Consumers			-			Year-3	Year-2	Year-1	Year	Average	As per Norms	Assumed
1 1 1 1 1 1 1 1 1 1		-	(8)	Others							6				***	
1 1 1 1 1 1 1 1 1 1		(8)		Addns peut							,	•				1
4. TIENDORANY SUPPLY (LIAV-9) 1.925 1.925 1.444 95.0 95.0 1.444 95.0 95.0 1.444 95.0 95.0 1.444 95.0 95.0 1.444 95.0 95.0 1.444 95.0 95.0 1.444 95.0 95.0 1.444 95.0 95.0 1.444 95.0 95.0 1.444 95.0 95.0 1.444 95.0			8	Ceremonies												
4. (A) Service 1,225 1,925 1,444 963 964 7	l j		(3)	Temporary Shops									*		,	8
	SUB		TEMPORA	RY SUPPLY (LMV-9)				,		93	V	1.				1
(i) (Justice Particulation Light	4V10								x.				e	,		
(ii) Class III Employees			())	Class IV Employees	1,925	1,925	1 025									1
(ii) Junifer Engineers & 3,600 4,000 3,660 5,009 5,009 702 712 38 1,627 770 77			(1)	Class III Employees	2,179	2.211	0.170		1,444	963	963	a l	100	481	,	1,444
(v) Assistant Engineers & 5,231 5,385 5,231 5,385 5,385 5,231 5,385 5,385 5,231 5,385 5,231 5,385 5,231 5,385 5,231 5,385 5,23			(00)	Junior Engineers & Equivalent	3,600	4.000	3,473	660%	5,099	702	712	38	1,627	770		5,099
(vi) Equivalent Engineers 5,533 5,133 5,533 4,100 1,107 1,067			(%)	Assistant Engineers & Equivalent	5,231	5,385	5,231		2,800	009	667		0	317		2,800
Civi) Object Central Action Civi) Copy Central Action Civi) Copy Central Action Civi) Copy Central Action Civi) Ci			(v)	ngineers	5,533	5,333	5 633	8	3,962	928	986		4	486		3,962
Color Colo			(iv)	Deputy General Manager & Foundation	5,500	6,000	00000		4,100	1,107	1,067	74		543	i.	4,100
Comparison Com			(vii)	CGM/GM & Equivalent posts and above	6,000	10.000	5,500		4,000	1,100	1,000	4		525		4,000
DEPARTMENTAL EMPLOYEES (LMV-10) 2,528 2,793 7,795 7,		(8)	Total Pensi	ioner & Family Pensioner	2 363		00000		5,500	1,200	2,000		8	830		2 500
Hurst Hurs	TAL	DEPA	ARTMENTAL	EMPLOYEES (LMV-10)	2 5 2 6	2,033	2,703	7,795	7,795	704	702	142	2,533	1,020	-	2 300
Urban Schedule Urba	11		Rural		0 40 10	4,535	2,528	6,378	3,492	786	788	140	2,053	942		3.492
(ii) For supply at 11kV 641,000 575,828 304,207 1,562 2,071 2,071 (iii) For supply at 11kV 641,000 575,828 304,207 2,022 2,071 2,071 (iii) For supply above 6keV 797,927 974,138 443,016 2,093 2,116 2,093 2,116 1,351 (iv) For supply at 11kV (iv) Fo			Urban													
(ii) For supply at 11kV 641,000 575,828 304,207 1,562 2,071 2,071 2,071 5,071 and upon at 10 standard before the supply above 10 standard before the supply above 10 standard before the supply above 10 standard before the supply at 11kV (iii) For supply at 11kV (iv) For		(A)	Urban Sche	dule												ķ
(ii) For supply above 11kV			(0)	For supply at 11kV		1	241 000									
For supply above 66kV			(0)	For supply above 11kV and upto 8 Including	,		000,000	375,828	304,207			1,562	2,071	2,071		2,591
132kV For supply above 1,052 1,116 1,052 1			(111)	For supply above 66kV and upto 8 Including		074 190	E TALL CONT	900,900,0	3,283,996		-		3,177	1,351	τ,	1,351
Rural Schedule (i) For supply at 11kV (ii) For supply at 11kV (iii) For supply at 11kV			(v)	for supply above	+	004/2			443,016		2,116	23		1,052		1,052
For supply at 11kV For supply about 11kV and supply about 11kV			Rural Schedu	de de						a l		-			//	
For supply above 11kV and union & Individual			(0)	For supply at 11kV					#DIV/DI	100				# DIV/DI	t	- Partition
			(8)	For supply above 11kV						4		70				10//10

य अधियन्ता (स्तर-1) केस्की, कानपुर

TYPE SUB NOTOTAL HV-2 (A)			A STATE OF THE PARTY OF THE PAR				THE OWNER WHEN	PerCa	Per Capita Consumption on Load Basis	ption on Los	d Basis			
		CATEGORY	Previous Year-3	Previous Year -2	Previous Vear-1	Current	Average	Previous	Previous	Previous	Current		Unmetered	
		66kV						rear-3	Year-2	Year-1	Year	Average	As per Norms	Assumed
	NON INDUSTR	NON INDUSTRIAL BULK LOADS (HV-1)	952,364	986,810	938.451	860 803	0000000							
6)	Rural					40000	930,079	2,498	2,143	1,751	2,380	2,193	,	2,193
4)	Urban													
	() Urban Schedule	hedule												
	0	For supply at 11kV			502,294	537,520	259 954		18					
	3	For supply above 11kV and upto & Including 66kV	3		8,328,250	18,383,500	6,677,938			1,945	2,271	2,271		2,271
	(111)	For supply above 66kV and upto & Including 132kV	696,944	727,103	53,289,500	60,618,000	28,832,887	2.069	2 445	0 0 0	2,790	4,207	9	4,207
	(14)	For supply above 132kV			,						6,730	2,738		7,421
(8)	Rural Schedule	edule			¥		*DIVING					500		85
	(1)	For supply at 11kV					- CAIALO			10		#DIV/01	÷	#D1V/0!
	(11)	For supply above 11kV and upto 8 Including		7	,								2	
SUB LAR	RGE & HEAVY	LARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)	703,906	727,103	754 373	000 000	100					,		×
HV-3	Rural					304,043	786,852	2,089	2,445	1,893	2,636	2,266	-	2,266
	Urban													
(A)		For supply at the above 132ky	-											
(8)	For supply	For supply below 132kV												
(0)	For Metro Traction	raction								+			100	
SUB	RAILWAY T	RAILWAY TRACTION (HV-3)												1
HV4	Rural								*			,	7.00.83	
	Urban													
(A)	For supply at 11kV	rt 11kV												
(8)	For Supply a	For Supply above 11kV and upto 66kV								G	(2)			*
	for supply a 132kV	For supply above 66kV and upto 132kV				-				¥.			./	55
SUB LIFT I	RRIGATION 8 BHP (75)	LIFT IRRIGATION & P. CANAL ABOVE 100 BHP (75kW) (HV-4)									17.1	į.		

गुरु हुनुभवित्ता (स्तर-1) केल्का, कानपुर

TVPF			10.4	Capita Consu	Per Capita Consumption / Consumer	umer		Par Ca	alle Court	STATE OF THE PARTY OF	10000			
- ADM			Descriptor						pira consum	and consumption on load Basis	od Basis			
		CATEGORY	Year-3	Year-2	Previous	Current	Average	Previous	Previous		Current	THE REAL PROPERTY.	Unmetered	
EXTRA		0		The Part of the		1001		Year-3	Year-2	Year-1	Year	Average	As per	Assumed
STATE		10.00										The state of the s	Norms	
		Urban												
	(A)	EXTRA STATE & OTHERS												
SUB	1			•	38	. *	g							
TOTAL	Î	EXTRA STATE CONSUMERS		,		18						,		172
BULK		Rural												
		Urban												
1	1													
	(A)	NPCL												
700	(8)	KESCO								-				
SUB	1						-	,		9				
OTAL	1	BULK SUPPLY	,						1				45	100
		GRAND TOTAL								i i		1	,	325
-			3,939	4,050	3,960	5,318	4,317	1.347	1.407	. 220	1	1	1	



e) CONSUMER SUB-CATEGORY WISE PROJECTIONS

Projections for Nos of Consumer sub-category wise for the two years have been made as given below:

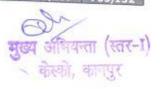
Table 6-13: Sub- category wise projections of Number of consumer

SUPPLY	CATEGORY		CATEGORY	2015-16	2016 17			In a constant
LMV1		Rural		2015-16	2016-17	2017-18	2018-19	2019-2
		Urban						
	0.00		per getting superly					
	(A)	Schedu						
		(i)	Un-metered	-	12			
	(B)	(ii)	Metered		-			-
	(C1)	Supply	at Single Point for Bulk Load	-	- 2		-	-
	(C2)	Other M	etered Domestic Consumers	454,734	472,765	510,586	PF4 400	-
SUB			Consumers/BPL	-	3,72,703	310,300	551,433	595,54
TOTAL LMV2	DO		IGHT FAN & POWER (LMV-1)	454,734	472,765	510,586	551,433	595,54
TIMA		Rural					/155	333,34
		Urban						
	(A)	Schedule	er getting supply as per "Rural e"					
		(i)	Un-metered					
		(ii)	Metered		-	-	-	-
	(B)	Sign/Fie	Advertising/Sign Post/Sign Board/Glow		-	-	-	-
-	(C)	Other Me	etered Non-Domestic Supply	75.005			-	-
SUB TOTAL	NON		LIGHT FAN & POWER (LMV-2)	75,806 75,806	76,378 76,378	80,911 80,911	85,713	90,800
LMV3	Α	Rural			, 0,570	80,911	85,713	90,800
	^	Urban						
	(A)	Un-mete	red Supply					
	0.0	(i)	Gram Panchyat					
		(ii)	Nagar Palika & Nagar Panchyat	-	-	+	0.0	
		(iii)	Nagar Nigam	-		-		- 27
	(B)	Metered :	Supply	18	18	18	18	-
		(i)	Gram Panchyat					
		(ii)	Nagar Palika & Nagar Panchyat	-		-	-	-
		(iii)	Nagar Nigam	-	-	-	4/	
SUB		mun		-		-	-	18
TOTAL		PUBI	LIC LAMPS (LMV-3)	18	18	18	40	
MV4	A	Rural		100000		18	18	18
		Urban						
	В	Rural						
	170	Urban						
	(A)	Public Ins	titution(4 A)	20.				
-	(B)	Private In	stitution(4 B)	581	550	578	606	637
SUB	LIGHT,	FAN & P	OWER FOR PUBLIC/PRIVATE ITUTION (LMV-4)	234 815	236 786	250	265	281
MV5		Rural	(4.1.4)	107.850	700	828	872	918
		Urban		A STATE OF THE STA				
	(A)	Rural Sche	edule					
		(i)	Un metered Supply					
		ii)	Metered Supply	-		-	49	
	(B) (Jrban Sch	edule	-			-	2/
		i)	Metered Supply					
SUB	DOTUGE	THE		-	-	+		
OTAL	PRIVAL	E LOBE M	/ELL/PUMPING SETS (LMV-5)	-			-	
MV6		tural		560	- C. V.		200	

SUPPLY	CATEGOR		CATEGORY	2015-16	2016-17	2017-18	20/2	1000/10000
		Urban	The second second		2010-17	2017-18	2018-19	2019-
	(A)	Small 8	Medium Power (Power Loom)					
		(1)	Rural Schedule					
	700	(ii)	Urban Schedule	-	-	-	0 2	-
	(B)	Small 8	Medium Power	-	-	-	-	- 2
		(i)	Rural Schedule			-	4	
SUB	2000000000	(ii)	Urban Schedule	10,120		-	(43)	
TOTAL	SMALL &	MEDIUM	POWER UPTO 100 HP (75) (LMV-6)		11,268	11,831	12,423	13,04
LMV7		Donat		10,120	11,268	11,831	12,423	13,04
		Rural					,	13,04
	(A)	Rural Sc	had t					
	107	(i)		1				
		(ii)	Jal Nigam	-	-			
		(iii)	Jal Sansthan	-			-	-
	(B)	Urban S	Others (Water Works)	7			-	-
		(i)	Jal Nigam				-	-
	1	(ii)	Jal Sansthan	+	-	-	-	
		(iii)	Others (Water Works)	524	560	566	571	FRE
SUB				2:	-	-	3/1	577
TOTAL LMV8		Rural	WATER WORKS(LMV-7)	524	560	566	571	577
		Urban					80,800	177.50
	(A)	Metered	Sunnly					
	(B)	Un-mete	red Supply	-		-	-	
		500	STW, Panchayat Raj, WB, I.Duch,		-		-	-
		(i) (ii)	P.Canais, LI upto 100 BHP	-		E+3		- 8
SUB	STATE TUB	EWELLES	Laghu Dal Nahar above 100 BHP		-	- 1		
TOTAL	to the control of the		R PUMPS CANAL UPTO 100 HP(LMV-	-				*
LMV9		Rural	8)		-	17/	-	
		Urban						
	(A)	Metered S	Supply					
		(i)	Individual Residential Consumers					
		(ii)	1 Others		-	-	-	-
	(B)	Un-meter	ed Supply	-		-	-	-
		(1)	Ceremonies					
SUB		(ii)	Temporary Shops		-		~	
TOTAL		TEMPOR	ARY SUPPLY (LMV-9)		75		-	-
	ZAN T		ART SUPPLY (LMV-9)		22			
1V10		Serving	9-20-					-
		(i)	Class IV Employees	-				
		(ii)	Class III Employees	1,759	1.750	-	-	-
		(iii) (iv)	Junior Engineers & Equivalent	4,735	1,759	1,759	1,759	1,759
		200	Assistant Engineers & Fourvalent		-	-	16	-
		(v)	Executive Engineers & Equivalent			-		-
		(vi)	Deputy General Manager &			9)		
	-	9000	Equivalent		194	-		(-)
	1000	(vii)	CGM/GM & Equivalent posts and above	-				
SUB	(B) 1	Total Pensi	oner & Family Pensioner		-			-
DTAL	DEP	ARTMENT	AL EMPLOYEE	1,587	1,587	1,587	1,587	1,587
V1			AL EMPLOYEES (LMV-10)	3,346	3,346	2 246	AND THE RESERVE OF THE PARTY OF	1,507
		tural			5/540	3,346	3,346	3,346
		Irban						
		Irban Sche						
	()	For supply at 11kV	106	212			
	(1	i)	For supply above 11kV and unto 8	186	210	216	223	229
		Ti.	THEIRING POKY	9	9	9		5735
			The state of the s					
	(1	ii)	For supply above 66kV and upto & Including 132kV	1000 V	10.50	9	9	10

मुख्य अभियन्ता ⁵(स्तर-1) केस्को, कानपुर

SUPPLY	CATEGORY		CATEGORY				I	
		(iv)		2015-16	2016-17	2017-18	2018-19	2019-
	(B)	Rural S	For supply above 132kV		-	-	phase was	THE REAL PROPERTY.
	10)	(I)				-	-	
		10	For supply at 11kV		-	-		
		(ii)	For supply above 11kV and upto &				-	-
SUB		2010/02/2017	Including 66kV	The state of	-	2	T ===	
TOTAL	N	ON INDU	STRIAL BULK LOADS (HV-1)	105	71	1000000	-	
HV2		Rural	****	195	219	225	232	239
	14	Urban						
	(A)	Urban S	chedule			100000		
		(i)	For supply at 11kV	1				
			For supply above 11kV and upto &	586	617	629	642	ere
5.93		(ii)	Including 66kV	4	5			655
		2003	For supply above 66kV and upto &	3.0	5	5	5	5
		(111)	Including 132kV	3	2	-	9038 0	2000
		(iv)	For supply above 12200		- 4	2	2	2
	(B)	Rural Sci	hedule 132KV	-	-			-
		(i)	For supply at 11kV					
		(ii)	For supply above 11kV and upto &	2	-		- 4	
CHE				-				
SUB	LARGE & H	EAVY PO	WER ABOVE 100 BHP (75 kW) (HV-			-	17	
HV3			2)	593	624	636		
HA3		Rural			20000	030	649	662
	(*)	Urban						
	(A)	For suppl	y at the above 132kV	-				
	(B)	For suppl	y below 132kV		-	2.5	-	
SUB	(C)	For Metro	Traction	-	-	*:	-1	
TOTAL		RAILW	AY TRACTION (HV-3)		-	-	-	
HV4			TRACTION (HV-3)	-	-	0=0	121	
		Rural				1001		-
	(A)	Urban						
	(B)	For supply	at 11kV		-			
	(C)	For supply	above 11kV and upto 66kV	-	-	-	-	(in)
SUB	LIFT IRRIGA	TTON 9	above 66kV and upto 132kV	-		-	-	-
TOTAL	· Inni	TON &	P. CANAL ABOVE 100 BHP (75kW)					
XTRA			(HV-4)	-	15	-	12	-
STATE	4	Rural						150
		Jrban						
			ATE & OTHERS					
SUB				-	-	2		
OTAL		EXTRA	STATE CONSUMERS				+	-
BULK	F	Rural			Ψ1	-	7.	-
	1	Irban						
		IPCL						
	4.00	ESCO		5-1		-		
SUB			V.W. Salaria, Construction	(e)	-	-		-
OTAL		В	ULK SUPPLY	850 0 0				
2 S. C. C.	LAURE SON BLE	G	RAND TOTAL		22	-	-	-
		100	The state of the s	546,151	65,964	08,948 6		



	100000	Ag	ra Discom			No of Consu	mer	THE CHANGE SHOW
SUPPLY			CATEGORY	2015-16	2016-17	2017-18		
LMV1	-	Rura			2010-17	2017-18	2018-19	2019-2
		Urba						
	(A)	Cons	sumer getting supply as per					
	1001	"Rur	al Schedule"					
		(i)	Un-metered	658,204	611,164	305,582	-	
	/n\	(ii)	Metered	845,036	816,559	2,242,649	4,427,579	5,186,41
	(B) (C1)	Otho	oly at Single Point for Bulk Load	84	263	289	318	350
	(C2)	Life	er Metered Domestic Consumers Line Consumers/BPL	1,256,243	1,348,589	1,363,650	1,438,956	1,499,20
SUB				243,352	256,690	310,255	432,099	557,158
TOTAL	DOM	ESTIC L	IGHT FAN & POWER (LMV-1)	3,002,919	3,033,265	4,222,425	6,298,952	7,243,12
LMV2		Rura				, , , , , , , , , , , , , , , , , , , ,	0/230/332	7,243,12
007.00		Urba						
	(A)	Cons	umer getting supply as per			/		
	Zes.	"Run	al Schedule"					
		(i)	Un-metered	2,668	2,567	1,284	-	
		(ii)	Metered	77,261	80,091	85,379	90,931	95,478
4	(B)	Priva	te Advertising/Sign Post/Sign	54	54	57		
	(C)	Othe	d/Glow Sign/Flex r Metered Non-Domestic Supply	250	(2012)	5/	60	63
SUB		N DOME	STIC LIGHT FAN & POWER	196,950	201,118	211,174	221,733	232,819
TOTAL	1154.54		(LMV-2)	276,933	283,830	297,893	312,724	
LMV3	А	Rura					312/124	328,360
	A	Urba						
	(A)	Un-m	netered Supply					
	-11-11-1	(i)	Gram Panchyat	443	445	538	553	
- 3		(ii)	Nagar Palika & Nagar	1000 E		230	652	-
		127.5	Panchyat	916	919	937	956	1.70
	/D)	(iii)	Nagar Nigam	64	73	86	102	
	(B)	Metered Supply (i) Gram Panchyat				-	102	
		(i) Gram Panchyat Nagar Palika & Nagar		45	44	45	46	698
		(ii)	Panchyat & Nagar	48	47	49		100000
		(iii)	Nagar Nigam	100000		- 92	51	1009
SUB				45	50	52	54	158
TOTAL		PUB	LIC LAMPS (LMV-3)	1,561	1,578	1,708	1,860	1 065
MV4	A	Rural				-7	2,000	1,865
		Urban	1.					
	В	Rural						
		Urban						
	(A) (B)	Public	Institution(4 A)	19,372	19,451	20,618	21,855	22.156
SUB	(D)	LICHT	e Institution(4 B)	5,958	6,488	6,683	6,883	23,166 7,090
OTAL	PUBLI	C/PRIV	, FAN & POWER FOR ATE INSTITUTION (LMV-4)	25,330	25,939	27,301	100000000000000000000000000000000000000	
MV5		Rural	ATE INSTITUTION (LMV-4)		23,939	27,301	28,738	30,256
		Urban						
	(A)	The second secon	Schedule					
	W/62/23	(i)	Un metered Supply	129,532	120 224			
		(ii)	Metered Supply	9,094	130,221	65,111	-	-
	(B)	Urban	Schedule	5,034	10,375	77,041	153,708	176,765
CUIT	1721	(i)	Metered Supply	77,931	88,958	07.054	100.00	
OTAL	PRIV	ATE TU	BE WELL/PUMPING SETS	100000000000000000000000000000000000000		97,854	107,639	118,403
MV6			(LMV-5)	216,557	229,554	240,006	261,348	295,168
-1V0		Rural						
		Urban	0.44-41					
	(A)	Loom)	& Medium Power (Power					
	20000	(i)	Pural Cohodula					
		(ii)	Rural Schedule Urban Schedule	3,411	2,728	2,864	3,008	3,158
	(B)		& Medium Power	8,949	4,282	4,625	4,995	5,394
	-	and the same of						3/034

SUPPLY	No. of the last	A	gra Discom		THE PARTY NAMED IN	No of Cons	Imar	Annual Control of the
TYPE			CATEGORY	2015-16	2016-17	2017-18	THE RESERVE THE PARTY OF THE PA	
		(i)	- Delicadic	8,649	A STATE OF THE PARTY OF THE PAR		2018-19	2019-
	-	(ii)		20.00	8,220	8,713	9,236	9,790
SUB	SMA	LL & I	MEDIUM POWER UPTO 100 HP	20,071	34,412	36,133	37,939	39,83
TOTAL		-	(75) (LMV-6)	49,680	49,642	52,335	EE 177	1000000
LMV7		Ru				52/555	55,177	58,17
	-		oan					
	(A)	Ru	ral Schedule					Marie Barrell
		(i)	Jal Nigam	2,989	2.707			
		(ii)	The state of the s	446	2,787	3,344	4,013	4,816
	700	(iii)		357	1,271	1,424	1,594	1,786
	(B)		an Schedule	337	700	784	878	983
		(i)	Jal Nigam	2,016	1.442			
		(ii)	Jal Sansthan	981	1,443	1,616 -	1,810	2,027
CHE		(iii)	Others (Water Works)	560	1,044	1,148	1,263	1,390
SUB	0	PUBLT	C WATER WORKS(LMV-7)	300	1,263	1,314	1,366	1,421
OTAL	1.5			7,349	8,508	9,630	10.025	
MV8		Rur				-/330	10,925	12,42
	7.11	Urb						
	(A)	Met	ered Supply	1,828	2.440			
	(B)	Un-	metered Supply	1,020	2,448	4,777	7,223	7,584
			STW, Panchavat Rai WB		3=	-	-	-
		(i)	I.Duch, P.Canals, LI upto	4,687	4 220			
-		1000	100 BHP	4,007	4,330	2,165	2	
- 1		(ii)	Laghu Dal Nahar above 100					
SUB		1000	BHP	84	84	42	-:	
DTAL	SIA	TE TU	BE WELLS & PUMPS CANAL		55000	(0,000)		-
1V9		UP	TO 100 HP(LMV-8)	6,599	6,862	6,984	7,223	12/10/25
149		Rura				.,,	7,223	7,584
	/43	Urba						
-	(A)	Mete	red Supply					
		(i)	Individual Residential					
		10525	Consumers	821	91	96	102	
	(B)	(ii)	Others	1,622	2,457	2.075		108
	(0)		netered Supply		2/3.07	2,875	3,363	3,935
		(i)	Ceremonies	376	-			
UB	-	(ii)	Temporary Shops		344	244		£1.
TAL	7	EMPO	RARY SUPPLY (LMV-9)	1 2 2 2 2	344	344	344	344
1V	000000		-511 (E11V-5)	2,819	2,892	3,315	3,810	4 200
10	(A)	Servi	ng			221302	-/020	4,388
		(i):	Class D. F.					
		(ii)	Class IV Employees	4,091	4,083	4,155	1 000	
			Class III Employees	4,057	3,985	4,144	4,228	4,302
		(iii)	Junior Engineers & Equivalent	466			4,310	4,483
		Warre V	Assistant Engin	400	488	522	559	598
		(iv)	Assistant Engineers & Equivalent	411	420		5/935	250
			Executive Engineers &	7.11	420	433	446	459
		(v)	Equivalent	147	140		MARK	222
		2.30	Deputy General Manager &	2.75%	149	158	167	177
		(vi)	Equivalent	50	F.	The state of the s		411
		Trans.	CGM/GM & Equivalent posts	30	51	54	56	59
		(vii)	and above	24	39	100	800	
	(B)	Total F	Pensioner & Family Pensioner			40	41	41
В	DEBAR	TMEN	TAL FALSE	9,315	9,259	9,444	9,633	
AL	DEPAR	MENT	AL EMPLOYEES (LMV-10)	18,561	18,474		- A. S. C.	9,826
-1		Rural		MUNICIPAL PROPERTY OF THE PARTY	10,474	18,949	19,439	19,945
		Urban						11
	(A)	Urban !	Schedule					
		(i) T	For supply at 11kV	505				
		CHANGE TO SERVICE THE PARTY OF	For supply above 11kV and	605	809	890	979	
		(11)	FUI SUDDIV above 11144	25	25			1,077



SUPPLY	-	Agi	ra Discom			No of Con	Sumer	
TYPE			CATEGORY	2015-16	2016-17	2017-18		
125			upto & Including 66kV			2017-18	2018-19	2019-2
		(iii)	For supply above 66kV and upto & Including 132kV	21				
	-	(iv)	For supply above 132kV	-	-			-
	(B)		I Schedule					
		(1)	For supply at 11kV	7	51	52	52	
SUB		(ii)	For supply above 11kV and upto & Including 66kV	-	100	-	- 52	53
TOTAL	NOI		TRIAL BULK LOADS (HV-1)	637	885	968	1,058	1,158
HV2		Rural					-/	1,138
	/43	Urbai						
	(A)		Schedule					
		(i)	For supply at 11kV	1,655	1,736	1,962	2.217	
		(ii)	For supply above 11kV and	491			2,217	2,505
		for.	upto & Including 66kV For supply above 66kV and	491	495	535	577	624
		(iii)	upto & Including 132kV	2	2	2	3	3
	(B)		For supply above 132kV Schedule	3	3	3	3	3
		(i)	For supply at 11kV					3
		(ii)	For supply above 11kV and	279	136	152	171	191
SUB	LARG	19108	upto & Including 66kV	4	3	3	3	3
OTAL IV3	LARG	(VY POWER ABOVE 100 BHP 75 kW) (HV-2)	2,434	2,375	2,657	2,973	3,329
14-3		Rural						5,525
	(A)	Urban						
	(B)	For su	pply at the above 132kV pply below 132kV	6	6	6	7	7
	(C)	For Me	etro Traction	2	2	2	2	7
SUB			AY TRACTION (HV-3)		-	-	-	-
V4		Rural		8	8	9	9	10
	(A)	Urban						
		For su	oply at 11kV	36	37	39	42	
	(B)	66kV	oply above 11kV and upto	1	1	1	1	1
UB	(C)	132kV	pply above 66kV and upto	1	1	1	1	1
TAL	CIPT IR	RHD	ON & P. CANAL ABOVE 100 (75kW) (HV-4)	38	39			1
TRA		Rural	(1944) (HV-4)	30	29	41	44	46
0.000		Urban						
	(A)	EXTRA	STATE & OTHERS				1	
TAL			STATE CONSUMERS	-	-			
JLK		Rural	- Johnsoners	-	21	0.70		2
		Urban						
	(A)	NPCL						
	(B)	KESCO		-	-	-	-	
UB		STATE OF THE PARTY	III K SUDDI V	-		-	-	
TAL	0.110.2		ULK SUPPLY RAND TOTAL	2	-	4		
	-	91	CANDIDIAL	3,611,425	3,663,851	4,884,220	7,004,281	8,005,838

f) Connected Load Sub-category wise Projections

Projections for Connected Load sub-category wise for the two years have been made as given below:

Table 6-14: Sub category wise projections of connected load

SUPPLY			CATEGORY	2015-16	2016-17	2017-18	2018-19	2019-20
LMV1		Rural				2021 10	2010-19	2019-2
		Urban						100000000000000000000000000000000000000
	(A)	Consun	ner getting supply as per "Rural					
	(4)	Schedu	le"					
		(i)	Un-metered	-				
		(ii)	Metered	-		-	-	20
	(B)	Supply	at Single Point for Bulk Load	-	-	-	-	-
	(C1)	Other M	letered Domestic Consumers	1,069,084	1,123,001	1,163,840	1 256 017	-
	(C2)	Life Line	e Consumers/BPL	-	1,125,001	1,103,040	1,256,947	1,357,50
SUB	DO	MESTIC L	IGHT FAN & POWER (LMV-1)	1,069,084	1,123,001	1,163,840	1,256,947	1,357,50
LMV2		Rural					2,230,347	1,337,30
		Urban						
	(A)	Consum	er getting supply as per "Rural e"					
	-	(i)	Un-metered	-				
		(ii)	Metered	-	-	-	-	-
	(B)	Private /	Advertising/Sign Post/Sign		-	+	-	
	000000	Board/G	low Sign/Flex			477	1,4	:0
- CILID	(C)	Other M	etered Non-Domestic Supply	214,402	222,113	228,840	242 422	
TOTAL	N	ON DOME	STIC LIGHT FAN & POWER				242,422	256,809
LMV3		T n 1	(LMV-2)	214,402	222,113	228,840	242,422	256,809
LMV3	A	Rural					F-2000000000000000000000000000000000000	
	(A)	Urban	10					
	(A)	Un-mete	ered Supply					
		(i)	Gram Panchyat	+		-		
		(ii)	Nagar Palika & Nagar Panchyat			9		1
	700	(iii)	Nagar Nigam	15,417	15,417	14,493	14,493	
	(B)	Metered				17,723	14,493	-
		(i)	Gram Panchyat	- 1	2		-	
		(ii)	Nagar Palika & Nagar Panchyat	-	-	-	-	
SUB		(iii)	Nagar Nigam	-	-	2		14 402
TOTAL		PUBL	IC LAMPS (LMV-3)	15,417	15,417	14,493	30000000	14,493
LMV4	А	Rural			/	14,493	14,493	14,493
	A	Urban						
	В	Rural						
	1,000	Urban						
	(A)	Public Ins	stitution(4 A)	10,336	10 707			
	(B)	Private In	stitution(4 B)	4,322	10,787	10,938	11,485	12,059
SUB		LIGHT,	FAN & POWER FOR		4,587	4,620	4,898	5,192
TOTAL	PUBL	IC/PRIVA	ATE INSTITUTION (LMV-4)	14,658	15,374	15,558	16,382	17,251
MV5		Rural			4100000000000	transfer sector		17,231
	(4)	Urban						
-	(A)	Rural Sch						
		(i)	Un metered Supply	12	-			
	703	(ii)	Metered Supply		-	-	-	7-
	(B)	Urban Sch					-	- 17
SUB	-	(i)	Metered Supply			-		
200	PRI	VATE TUE	BE WELL/PUMPING SETS	-	-	-	-	24

SUPPLY	5		CATEGORY	2015-16	2016-17	2017-18	2018-19	2019-2
TOTAL			(LMV-5)					The same of
LMV6		Rural	(2.1.5)					
		Urban						
	(A)		& Medium Power (Power Loom)					
	100	(i)	Rural Schedule					
		(ii)		-	-	+	-	-
	70)		Urban Schedule	-	12	-		-
	(B)		k Medium Power					
	-	(i)	Rural Schedule	-	-			
		(ii)	Urban Schedule	121,046	126,272	186,735	196,072	205,87
SUB	SM	ALL & ME	DIUM POWER UPTO 100 HP	Common Albertain	S-New York	100000000000000000000000000000000000000	130,072	205,07
TOTAL			(75) (LMV-6)	121,046	126,272	186,735	196,072	205,87
LMV7		Rural						
		Urban						
	(A)	Rural S	chedule		1			
		(i)	Jal Nigam					
		(ii)	Jal Sansthan	-	*	*	+3	
		(iii)			-		-	-
	(D)		Others (Water Works)		12	- 2	-	- 4
	(B)		Schedule					
		(1)	Jal Nigam			2000		-
		(ii)	Jal Sansthan	36,618	45,941	47,126	47,597	48,073
		(iii)	Others (Water Works)	-	-		- 47,337	
SUB		PUBLIC	WATER WORKS(LMV-7)	36,618	45,941	47,126	47,597	48,073
LMV8		Rural					Carrier Control	20000000
		Urban						
	(A)	Metered	Supply	0.246				
	(B)	Unamet	ered Supply	9,316			-	-
	(0)	Oil-med	ered Supply	-	*			
		(i)	STW, Panchayat Raj, WB, I.Duch, P.Canals, LI upto 100 BHP	-		150	524	(+)
		(ii)	Laghu Dal Nahar above 100 BHP	(4)	7,50		-	
TOTAL	STAT		VELLS & PUMPS CANAL UPTO 100 HP(LMV-8)	(*)	-	-	171	-
LMV9		Rural						
		Urban						
	(A)	Metered	Supply					
	31-11-22	5.00 CO.00 P.S.	Individual Residential					
		(i)	Consumers	24	-	4		
		(ii)	Others			25		
	(B)		ered Supply		-	-		-
	(5)	(i)						
			Ceremonies			25	-	9
SUB		(ii)	Temporary Shops	2	-	-	-	-
TOTAL			RARY SUPPLY (LMV-9)	-	-	-	-	
MV10	(A)	Serving						
	3000-000	(i)	Class IV Employees					
		(ii)	Class III Employees					-
			Junior Engineers &	5,511		5,511	5,511	5,511
		(iii)	Equivalent	75	*	-	-	
		(iv)	Assistant Engineers & Equivalent	8		- 5		-
		(v)	Executive Engineers & Equivalent		-	2	-	-
		(vi)	Deputy General Manager & Equivalent	-:	2	-	- 1	
	/81	(vii)	CGM/GM & Equivalent posts and above	-	-			-
	(B)	Total Pen	sioner & Family Pensioner	4,883	-	4,883	4.003	4.000
CILIP						7,003	4,883	4,883
OTAL	DED	ARTMENT	TAL EMPLOYEES (LMV-10)	10,394	-			



SUPPLY			CATEGORY	2015-16	2016-17	2017-18		7000
HV1		Rural	The state of the s		2010-17	2017-18	2018-19	2019
		Urban						
	(A	Urban 9	Schedule					-
	-	(i)	For supply at 11kV	F1 716				
	1	(ii)	For supply above 11kV and	51,716	55,820	57,495	59,219	60,9
	-	(11)	upto & Including 66kV	19,565	19,565	19,956	20,355	
		(iii)	For supply above 66kV and	0.000		12/200	20,355	20,7
	-	1 200	upto & Including 132kV			8-		
	100	(iv)	For supply above 132kV	-				
_	(B)	-	hedule		-	-	-	- +
	+	(1)	For supply at 11kV	-				
		(ii)	For supply above 11kV and		-			5
SUB	+	4	upto & Including 66kV			-		-
TOTAL	1	ION INDUS	TRIAL BULK LOADS (HV-1)	Wast See				
HV2	1		TOTAL ECADS (HV-1)	71,281	75,385	77,451	79,575	81,75
110 2		Rural				CONTRACTOR OF	100/000	04,7.
	(A)	Urban						
	100	Urban S						
		Circles -	For supply at 11kV	138,682	141,756	144,591	147 402	
		(ii)	For supply above 11kV and	12,700			147,483	150,4
		- Contract of	upto & Including 66kV	12,700	35,100	35,802	36,518	37,24
	1	(iii)	For supply above 66kV and	65,000	42.000			3300
		(iv)	upto & Including 132kV	03,000	43,000	43,860	44,737	45,63
	(B)	Rural Sci	For supply above 132kV	-	2.5	-		
	1	(i)	For supply at 11kV					
	-	- 10 Marie -	For supply at 11kV	- F	+		14	
		(ii)	For supply above 11kV and upto & Including 66kV	-				-
SUB	LA	RGE & HEA	VY POWER ABOVE 100 BHP			-	12	-
TOTAL		(7	5 kW) (HV-2)	216,382	219,856		District Property and A	
HV3		Rural	(114-2)		219,036	224,253	228,738	233,31
		Urban						
	(A)	For suppl	y at the above 132kV					
	(B)	For suppl	y below 132kV	-	-		-	
	(C)	For Metro	Traction		9	-	-	-
SUB	TANKS AND			*	-	9		-
OTAL		KAILWA	Y TRACTION (HV-3)	7.m.	-	2		
IV4		Rural				-	Ti.	-
		Urban						
	(A)	For supply	at 11kV					
	(B)	For supply	above 11kV and upto 66kV	-		-		
CLID	(C)	FOR SUDDIV	above 66kV and unto 12214	-	-	-	-	-
OTAL	LIFT	THEFT PALL	ON & P. CANAL ABOVE 100	-		-		
XTRA		ВНР	(75kW) (HV-4)	-	-			
TATE		Rural				253	-	-
IAIE								
	CAN	Urban						
SUB	(A)	EXTRA STA	ATE & OTHERS					
TAL		EXTRA S	TATE CONSUMERS		-	-		120
ULK			CONSONERS		-	-	2	
		Rural						
	(A)	Urban						
	(B)	NPCL						
UB	(0)	KESCO		-	-	-	8	-
TAL		В	JLK SUPPLY			-	-	93
COMMENT OF	100 AV		AND TOTAL	-	-	*	-	
		CO.	CAN DESCRIPTION OF A PARTY OF STREET,	,769,282 1	,843,359 1			-



g) SALES SUB-CATEGORY WISE PROJECTIONS

Projections for Sales sub-category wise for the two years have been made as given below:

Table 6-15: Sub category wise projections of energy sales

Viddil				Pr	Projected Sales	es		Project	ed (Impac	t of Runnin	Projected (Impact of Running Hours on Sales)	Sales)	Pr	Projected (Impact of Demand Side	mpact of L	S puemand S	ide
TYPE		CATEGORY	2015-	2016-17	2017-	2018-	2019-	2015-	2016-	2017-	2018-	2019-	2015-	2016-	2016- 2017- 2018	2018-	2016
LMV-1		Rural	24	Description of the last	18	19	20	16	17	18	19	20	16	17	18	19	20
		Urban															
	(A)	Consumer getting supply as per "Rural Schedule"															
		(i) Un-metered										1					
		(ii) Metered										1					
	(8)	Supply at Single Point for Bulk Load												4			
	9	Other Metered Domestic Consumers	1,385	1.319	1 36.7	1 477	+ 505	1 300	100				,		200		
4110	(25)	Life Une Consumers/8PL	13				41000	1,302	1,512	3,702	2,002	2,339	1,259	1,425	1,702	2,002	2,339
TOTAL		DOMESTIC LIGHT FAN & POWER (LMV-1)	1,398	1,319	1.367	1.477	1 505	1 300					13				1
LMV2		Rural					2000	4,330	4,514	1,702	2,002	2,339	1,272	1,425	1,702	2,002	2,339
		Urban															
	(A)	Consumer getting supply as per 'Rural Schedule"															
		(i) Un-metered															
		(ii) Metered	,			-								+	-		
	(8)	Private Advertising/Sign Post/Sign Board/Glow Sign/Flex							200								
	(C)	Other Metered Non-Domestic Supply	336	283	202	300	200	200	400			6	2		¥.75	+	
SUB	NO	NON DOMESTIC LIGHT FAM & DOMED (1 MAY 2)	100		222	600	357	330	325	360	408	461	336	352	360	408	461
I MIN 3	-	(T-AMP) WHITE THE TOTAL COLUMN (TWA-T)	230	283	292	309	327	336	325	360	408	461	336	352	360	408	461
FA	4	Aural												1000			
	101	In-market County										-			1		
		Alpha Subbit					K								1		
		Con Manual Parity at			i								1				
	(8)	Meterad Supply migati	74	19	63	63	,	5.4	49	63	63		54	56	1.9	2.5	
		(i) Gram Panchvat	-													-	
		(ii) Nadar Palika & Nagar Panchuat					-			,							
								-				1					
SUB		PUBLIC LAMPS (LMV-3)	54	67	63	***	00			-		63					63
LMV4	-	Rura				20	60	24	01	63	63	63	54	95	63	63	63
	τ	Urban															
	80	Rural					1										
		Urban								1							
1	(A)	Public Institution(4 A)	26	53	54	5.3	50	35	17	20	1						
1	(8)	Private Institution(4 B)	7	6	6	10	11	1	1	000	67	633	4/6	63	99	74	63
TOTAL	770	LIGHT, PAN & POWER FOR PUBLIC/PRIVATE INSTITUTION (LMV-4)	33	63	63	67	7.0	3.3	7.3	3.0	600	CI CI	1	0	12	13	15
LMV5		Rural								0	99	200	33	72	78	88	86
		Urban				-	1										
	(A)	Rural Schedule					-		1						4		

2015 2015 2016 2016 2016 2016 2016 2016 2017 118 19 2018 201	SUPPL	*			Pri	Projected Sales	es		Project	ed (Impa	ct of Runni	Projected (Impact of Running Hours on Sales)	Sales 1	PI	Projected (Impact of Demand Side	npact of (Demand S	de
1	TYPE		CATEGORY	2015-	2016-17	2017-	2018-	H	2015-	2016-	2017-	3016	2000	-	Manage	Management on Sales)	Sales)	
Column C		107	(n) Metered Supply	0 0		18	19	20	16	17	18	19	20	16	2016-	2017-	2018-	2019-
A A A A A A A A A A	-	(0)	Urban Schedule						0					0				
A Strate A A A A A A A A A	SUB	+	(4) Metered Supply															
A A A A A A A A A A	TOTA		RIVATE TUBE WELL/PUMPING SETS (LMV-5)	0								-					*	
(4) Signal Medium Power (Power Lecron) (9) STAN 18 Medium Power (Power Lecron) (10) STAN 18 Medium Power (Power Lecron) (11) Medium Scheduler (12) Medium Scheduler (13) Medium Scheduler (14) Medium Scheduler (15) Medium Scheduler (16) Medium Scheduler (17) Medium Scheduler (18) Medium Scheduler (18) Medium Scheduler (18) Medium Scheduler (19) Medium Medium Scheduler (19) Medium Scheduler (19) Medium M	LMV		Rural				1		0	,				0				
Class Street March Parest Capacity	1	1	Urban															
10 10 10 10 10 10 10 10		(A)	Small & Medium Power (Power Loom)															
Column Strict Member Structure S	-	-		-					1	1								
10		(8)	Small & Martium Douner	-					-				-	1				â
SHALL & MEDICAL CONTINUE CONTINUENCE SUDDIVISION Continuence Supply			(1) Right Chadele	-										-				
SMALL & MEDLIUM POUNER UNTO 100 HP (75) 271 257 380 399 419 271 295 466 515 577 271			(ii) Urban Schedula	250	+ 4		-		-									
	SUB		MALL & MEDIUM POWER UPTO 100 HP (75)	271	257	380	399	419	270	295	466	515	295	270	283	466	515	567
1.0 1.0	MV7			4/4	757	380	399	419	271	295	466	515	267	271	383	466	4 - 4	1
(b) Since Schedules (ii) All Separations (iii) All Separations (iv)			Triban Indian										-		8.03	400	515	267
(ii) All Suggestions All		(A)	Rural Schadula															
(ii) Significant Registration (iii) As Septisham (iiii) As Septisham (iiii) As Septisham (iiii) As Septisham (iiiii) As Septisham (iiiiii) As Septisham (iiiiiiii) As Septisham (iiiiiiii) As Septisham (iiiiiiiiiiiii) As Septisham (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii			(i) Jal Nicam															
(ii) (i)							+		-		4						1	
(B) Urban Scheduler (U) All Resemble (Montal Residential Consumers State (Montal Residential Residential Consumers State (Montal Residential Residenti				-	,	1										-		
(i) 35d Nagama 50 88 90 91 92 50 88 90 91 92 50 88 90 91 92 50 88 90 91 92 50 80 91 92 50 80 91 92 50 91 92 50 91 92 50 91 92 92 92 92 92 92 92		(8)	Urban Schedule						1						-			1
(ii) Ziej Santithan Si Santith			(i) Jal Nigarin															
(iii) Colera's (Walter Works)				200		-										1		
Returnal Public Water Works(LMV-7) S1 88 90 91 92 51 51 51 51 51 51 51 5				200	99	90	16	92	50	88	06	91	92	En	03	40		1
A	SUB		PUBLIC WATER WOODS											2	90	06	9.1	92
Runal Runa	TAL	1	COLLY WATER WORKS(LMV-7)	51	88	06	91	92	51	8.8	90	*0	-					
(4) Virtue of Supply (5) Virtue of Supply (6) Virtue of Supply (7) STATE TUBE WELLS & Purchayat Raj, Wa, I. Duch, (8) Virtue of Supply (9) STATE TUBE WELLS & Purchayat Raj, Wa, I. Duch, (1) STATE TUBE WELLS & Purchayat Raj, Wa, I. Duch, (1) Virtue of Supply (1) Clear of Supply (2) Virtue of Supply (3) Clear of Supply (4) Clear of Supply (5) Virtue of Supply (6) Virtue of Supply (7) Clear of Supply (8) Virtue of Supply (9) Clear of Supply (10) Cle	81	-	Rura							2	200	16	92	51	285	06	91	92
(b) Prefered Supply (c) Prefered Supply (d) Patricia Supply (d) Patricia Supply (e) Un-metered Supply (d) Patricia Supply (d) Patricia Supply (d) Cataly, Li Luch, (d) Refered Supply (d) Cataly	1	100	Urban															1
10 Prince Princ		W VO	Metered Supply	84			,	1	100									
(i) STATE TUBE WELLS & PUNTA PARCHARIST Ray, WHO, ELOUCH, STATE TUBE WELLS & PUNTA SOVIET 100 BHP STATE TUBE WELLS & PUNTA SOVIET 100 BHP STATE TUBE WELLS & PUNTA CANAL UPTO 100 Ruthal HP(LIAN-8) (A) Meteored Supply (b) Individual Residential Consumers (c) Un-meteored Supply (d) Individual Residential Consumers (e) Un-meteored Supply (f) Individual Residential Consumers (g) Individual Residential Residential Consumers (g) Individual Residential Consumers (g) Individual Residential Residential Consumers (g) Individual Residential Residen		101	metered					1		1	1			84		. +		
(ii) Lightly Data Nature and Barbar abrove 100 BHP STATE TUBE WELLS & PLONE CANAL UPTO 100 State HP(LMV-8) State									1									
STATE TUBE WELLS & PUMPS CANAL UPTO 100 S4 S4 S4 S4 S4 S4 S4			(ii) Laohu Dal Nahar above 100 Bub					10	•118		,	1	¥		7.8		14	
A	90	STA	TE TUBE WELLS & PUMPS CANAL UPTO 100											1	1			1
Rural Rural	DIAL		HP(LMV-8)				i		84						Ī		-	
(A) Wetered Supply (i) Individual Residential Consumers (ii) Others (iii) Ceremonies (iii) Class IV Employees (iv) Assistant Engineers & Equivalent (iv) Assistant Engineers & Equivalent (iv) Executive Engineers & Equivalent (iv) Conviction Engineers & Equivalen	62		Rura				1	1						84	t	,		e.
(b) Individual Residential Consumers (i) Individual Residential Consumers (ii) Others (iii) Clearmonies (iii) Clearmonies (iii) Clearmonies (iii) Class IV Employees (iv) Assistant Engineers & Equivalent (iv) Assistant Engineers & Equivalent (iv) Executive Engineers & Equivalent (iv) Equivalent (iv) CGM/GM & Equivalent posts and			Urban				1									t	1	1
(b) Inflandual Residential Consumers (c) Uhrmetered Supply (d) Cetemories (i) Cetemories (ii) Cetemories (iii) Class IV Employees (iv) Class IV Employees (iv) Class III Employees (iv) Assistant Engineers & Equivalent (iv) Assistant Engineers & Equivalent (iv) Executive Engineers & Equivalent (iv) Equivalent Engineers & Equivalent (iv) Engineers	1	(A)	Metered Supply				-	1	1							İ		
(B) Un-meternal Supplies (I) Celementies (II) Temporary Steps (IV) Class IV Employees (IV) Class IV Employees (IV) Assistant Engineers & Equivalent (IV) Assistant Engineers & Equivalent (IV) Assistant Engineers & Equivalent (IV) Equivalent (IV) Equivalent (IV) Equivalent (IV) Equivalent (IV) CGM/GM & Equivalent to sits and			1				1	1	1									
(i) Temporary Shops (ii) Temporary Shops (iii) Class IV Employees (iii) Class IV Employees (iii) Class III Employees (iii) Assistant Engineer's & Equivalent (iv) Assistant Engineer's & Equivalent (iv) Recutive Engineer's & Equivalent (iv) Cay Executive Engineer's & Equivalent (iv) Cay Executive Engineer's & Equivalent (iv) Cay Executive Engineer's & Equivalent (iv) Cay Cay Cay Cay Cay Cay Cay Cay Cay Cay		181	(ii) Others					1										
(A) Temporary Shops (A) Serving Class IV Employees (b) Class IV Employees (c) Class IV Employees (c) Class III Employees (c)			And an analysis of the state of						-	1	1	1						
(A) Serving Class IV Employees (ii) Class IIV Employees 9 9 9 9 10 11 11 9 (iv) Assistant Engineers & Equivalent (iv) Executive Engineers & Equivalent (iv) Executive Engineers & Equivalent (iv) Executive Engineers & Equivalent (iv) Executive Engineers & Equivalent (iv) Equivalent Engineers & Equivalent (iv) Equivalent Engineers & Equivalent (iv) CGM/GM & Equivalent posts and										1								
(A) Serving (I) Class IV Employees (II) Class IV Employees (IV) Assistant Engineers & Equivalent (IV) Assistant Engineers & Equivalent (IV) Assistant Engineers & Equivalent (IV) Assistant Engineers & Equivalent (IV) Equivalent (IV) Equivalent (IV) CGM/GM & Equivalent posts and	NB		3							1		1	-	-				
(A) Serving (I) Class IV Employees (II) Class III Employees (III) Assistant Engineers & Equivalent (IV) Assistant Engineers & Equivalent (IV) Recutive Engineers & Equivalent (IV) Recutive Engineers & Equivalent (IV) Equivalent (IV) Equivalent (IV) Equivalent (IV) CGM/GM & Equivalent posts and	TAL		TEMPORARY SUPPLY (LMV-9)	*		2.0	1					1	1					
Class IV Employees 9 9 9 9 10 10 11 11 9	-10	(A)		1		1		00									e.	,
Class III Employees 9 9 9 10 11 11 9 Aurior Engineers & Equivalent Executive Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent CGM/GM & Equivalent 11 11 9			П	1	1	1	-						T	1	T	1	1	8
Absistant Engineers & Equivalent Assistant Engineers & Equivalent Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent	1			a	. 0					*					1.	1	1	
Assistant Engineers & Equivalent Effective Engineers & Equivalent Deputy Genral Manager & Equivalent CGM/GM & Equivalent posts and					-	0	0	0	0	10	10	11	11	0	0			
Executive Engineers & Equivalent Deputy General Manager & Equivalent CGM/GM & Equivalent posts and				1	-	,	+			,					0	0.4	11	11
Deputy General Manager & Equivalent CGM/GM & Equivalent posts and	1						,				,				-			
Equivalent CGM/GM & Equivalent posts: and					1			-		,	3							
Com/(aw & courtment bosts, and		1							•				,					1
		1		1				,		1	5 0	10000					ě	ì

मुख्य आर्थनता (सतर-1) केस्को, कानपुर

1	-	-		Control of the last of the las			Control of the last		and a	and the little	CL OF RUMINE	riojected (Impact of Running Bours on Sales)	Canes /		-		The second of th	-
TABE			CATEGORY	2015-	2016-17	2017-	7	2019-	2015-	2016-	2017-	2018-	2010-	3048	Manag	Management on Sales	Sales)	
			apove	16	******	18		20	16	17	18	19	20	16	17	18	19	2019-
	(8)	Total Pension	Total Pensioner & Family Pensioner	12	12	12	13	1.2	6.0	4.0	**							
SUB		DEPARTMEN	DEPARTMENTAL EMPLOYEES (LMV-10)	21	21	21	3.1	34	3.0	200	14	0 2	16	15	14	14	15	16
HV1		Rural								57	+7	97	28	2.1	21	24	26	28
		Urban																
	(A)	Urban Schedule	dule															
		3	For supply at 11kV	107	145	149	153	158	107	145	149	153	152	503	+ 34	0.40	224	0.1.
		(6)	For Supply above 11kV and upto 8. Including 66kV	29	26	27	28	28	62	26	27	36	38	101	750	643	203	158
		CIIIS	For supply above 66kV and upto				170.00		2000	13.47		4	0.7	70	20	17	97	58
		0.0	& Including 132kV	0				K.	0	٠	(A)	5		0	-	81	8	
	(8)	Rural Schadula	For supply above 132kV	,						*					×			1
		(1)	For supply at 11kV															
		(3)	For supply above 11kV and upto															
SUB		NON INDIES	NON INDUSTRIAL BRIDGE CARGO CANADA	020			ASW									•	80	20
TOTAL		200	MAL BUCK LUADS (HV-1)	170	171	176	181	186	170	171	176	181	186	170	175	176	181	186
HV2	1	Rural										1	- Trans	200				
	141	Urban																
	(4)	(1) Formal Formal	For enable at 1 1 M	400	1000													
		100	For supply at a 11kV and units	315	322	328	335	342	315	322	328	335	342	315	292	328	335	342
		(11)	& Induding 66kV	74	148	151	154	157	74	148	151	154	157	74	90	151	154	157
		(30)	For supply above 65kV and upto & Induding 132kV	182	319	325	332	339	182	319	325	332	339	182	31.7	362	223	230
	+	(AI)	For supply above 132kV	0					0	1							-	1
	(0)	Rural Schedule	le le											0				
			For supply at 11kV	ě														
		(=)	& Induding 66kV	٠	96					7.5								1
SUB	LAR	RGE & HEAVY	LARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)	570	789	804	821	837	670	280	800	000	200		-			
HV3		Rural	77 1117 7111		1					602	*00	871	837	270	699	804	821	837
	Н	Urban																
	(A)	For supply at	For supply at the above 132ky															
	+	For Maters Traction 132kV	iow 132kV	,														1
SUB	1	TO CHECK IT	Coon					+										
TOTAL		RAILWA	RAILWAY TRACTION (HV-3)	6		×				- 4								
HV4		Rural					1							86	000			
1	+	Urban															1	
I	1	For supply at 11kV	11kV	,									1		I		Ī	
	(8)	For Supply ab	For Supply above 11kV and upto 66kV					,										, .
SHR	1 404	TO SUPPLY SO	THE TROUGHT ATTOMS OF COME STATES AND STATES							1		,						
TOTAL		()	(75kW) (HV-4)						,									
STATE		Rural															Ī	
		Urban						1	1									
-	(A)	EXTRA STATE & OTHERS	& OTHERS					,										
TOTAL		EXTRA	EXTRA STATE CONSUMERS						-				1	-			-	
-												7						

मुख्य आष्यचना (सार-1)

			Pro	rojected Sales	71		Project	ed (Impact	Projected (Impact of Running	O Mounte on Calue	Calan	Pro	Projected (Impact of Damand Side	anact of D.	2 posture	ofer
	CATEGORY	2015-	7000	2017-	2018-	2010-	2000	0000		and empore	Sales /		Manage	Management on Sales	Tales 1	50
Orban		16	77-0707	18	19	20	16	17	2017-	2018-	2019-	2015-	2016-	2017-	2018-	2019-
Ť															47	1
1				,						1			2			
	BULK SUPPLY							-			¥					
STORY OF STREET	GRAND TOTAL				5		1	00				100				
	TOTAL STATE	2,905	3,058	3,257	3,428	0356511	2.989	2000	The same	-						



6.3 ACTUAL BILLING DETERMINANTS FOR FY 2015-16

The detailed category-wise data for previous year 2015-16 is placed in the table below:

Table 6-16: Actual Billing Determinant for FY 2015-16

TYPE				CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED
LMV1		Rui	ral			ENERGY (MU
	_	The second second second second	oan			
	(A)	Cor	nsumer getting supply as per "Rural Schedule"			
	-	(1)	Un-metered			
	2003	(ii)				
	(B)	Sup	oply at Single Point for Bulk Load	1		
	(C1)	Oth	er Metered Domestic Consumers	454,734	1,069,084	
SUB	(C2)	Life	Line Consumers/BPL		1,005,004	1,385
TOTAL		DOME	STIC LIGHT FAN & POWER (LMV-1)	454,734	1,069,084	1,398
LMV2		Rur				10000000
	-	Urb				
	(A)	Con	sumer getting supply as per "Rural edule"			
		(i)	Un-metered			
		(ii)	Metered	-		
	(B)	Priv	ate Advertising/Sign Post/Sign Board/Glow		-	
	14 15 15 15	Sign	1/Flex	2		*
	(C)	Oth	er Metered Non-Domestic Supply	75,806	214 402	
SUB	NC.				214,402	336
TOTAL			MESTIC LIGHT FAN & POWER (LMV-2)	75,806	214,402	336
LMV3	A	Rura				
	- 2	Urba				
	(A)		metered Supply			
	+	(i)	Gram Panchyat		-	
	-	(ii)	Nagar Palika & Nagar Panchyat	-		
	100	(iii)	Nagar Nigam	18	15,417	-
	(B)		ered Supply	40	15,41/	54
	-	(i)	Gram Panchyat			
	1	(ii)	Nagar Palika & Nagar Panchyat			
CUD	-	(iii)	Nagar Nigam			
SUB TOTAL			PUBLIC LAMPS (LMV-3)	18	15,417	54
LMV4	A	Rura				
	5565	Urba				
	В	Rura				
	-	Urba				
	(A)	Publi	c Institution(4 A)	581	10 226	
SUB	(B)	Priva	te Institution(4 B)	234	10,336	26
TOTAL	LIC	SHT, FA	AN & POWER FOR PUBLIC/PRIVATE		4,322	7
LMV5	-		INSTITUTION (LMV-4)	815	14,658	33
		Rural				
	(0)	Urbai	The state of the s			
	(A)		Schedule			
	-	(i)	Un metered Supply			
	(B)	(ii)	Metered Supply			0
	(D)		Schedule			0
SUB	000000	(i)	Metered Supply	-		
TOTAL	PRI	VATE T	UBE WELL/PUMPING SETS (LMV-5)	-		
MV6		Rural				0
		Urban				
	(A)	Small	& Medium Power (Power Loom)			
		(i)	Rural Schedule			
		(ii)	Urban Schedule	-	-	1
	(B)	Small	& Medium Power		-	1
		(i)	Rural Schedule			
		(ii)	Urban Schedule	10.400		-
SUB	SMALL &	MEDI	UM POWER UPTO 100 HP (75) (LMV-6)	10,120	121,046	270
			(LMV-6)	10,120	121,046	271

मुख्य जिन्दा (स्तर-1)

SUPPLY				CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTE! BILLED
TOTAL					()	ENERGY (M
LMV7	-	Rui				
	743	Urb				
	(A)		al Schedule			
	-	(i)	Jal Nigam		-	
	1	(ii)		-	-	- 8
	(B)	(iii)	Others (Water Works)	12		1
	10/	(i)	Jal Nigam			
		(ii)	Jal Sansthan	-	-	
		(iii)		524	36,618	50
SUB		-03				-
TOTAL		Р	UBLIC WATER WORKS(LMV-7)	524	36,618	51
LMV8		Run				31
-		Urb				
	(A)	Met	ered.Supply		0.216	
	(B)	Un-	metered Supply		9,316	84
		(i)	STW, Panchayat Raj, WB, I.Duch,		-	
	-	30.50	P.Canals, LI upto 100 BHP			-
SUB	ST	(ii)	Laghu Dal Nahar above 100 BHP	-		
TOTAL	31	AIE IU	BE WELLS & PUMPS CANAL UPTO 100	_		
LMV9		Rura	HP(LMV-8)	_		-
		Urba				
	(A)		ered Supply			
		(i)	Individual Residential Consumers			
		(ii)	Others		-	
	(B)	Un-r	netered Supply	-		
		(i)	Ceremonies			
		(ii)	Temporary Shops		-	-
SUB		т			-	
TOTAL	TEMPORARY SUPPLY (LMV-9)				7-07	-
MV10	(A)	Serv				
		(i)	Class IV Employees	-		
-		(ii) (iii)	Class III Employees	1,759	5,511	9
		(iv)	Junior Engineers & Equivalent		-	9
		(v)	Assistant Engineers & Equivalent		-	
		(vi)	Executive Engineers & Equivalent Deputy General Manager & Equivalent			
		(vii)	CGM/GM & Equivalent posts and above	-	-	-
	(B)		Pensioner & Family Pensioner	-		
SUB				1,587	4,883	12
TOTAL		DEPARTMENTAL EMPLOYEES (LMV-10) 3,346 10,394				
HV1	Rural				10,004	21
-	743	Urbar				
	(A)		Schedule			
		(i)	For supply at 11kV	186	51 716	465
		(ii)	For supply above 11kV and upto &		51,716	107
			Including 66kV	9	19,565	62
		(iii)	For supply above 66kV and upto & Including 132kV			
		(iv)	For supply above 132kV	-	•	0
	(B)		Schedule 132kV	-	9.	
		(i)	For supply at 11kV			
			For supply above 11kV and upto &			
		(ii)	Including 66kV		200	
SUB		NON TN				-
V2	NON INDUSTRIAL BULK LOADS (HV-1)			195	71,281	170
VZ	Rural					270
	Urban (A)					
	(A)		Schedule			
		(1)	For supply at 11kV	586	138,682	245
		(ii)	For supply above 11kV and upto &		888888	315
		47				
		2317 A	Including 66kV	4	12,700	74
		(iii)	Including 66kV For supply above 66kV and upto & Including 132kV	3	12,700	74 182

SUPPLY TYPE				CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED
	(B)	Rura	I Schedule			ENERGY (MU)
		(i)	For supply at 11kV	1 -		
		(ii)	For supply above 11kV and upto & Including 66kV			
SUB	LAR	-	EAVY POWER ABOVE 100 BHP (75 kW) (HV-2)	593	216,382	570
HV3		Rura				
		Urba				
	(A)	Fors	upply at the above 132kV			
	(B)		upply below 132kV	-	-	
SUB	(C)	For N	Metro Traction		_	
TOTAL	RAILW		RAILWAY TRACTION (HV-3)	2	2	
HV4	Rural					
	Urban					
	(A)	Fors	upply at 11kV	-		
	(B)	Fors	upply above 11kV and upto 66kV			
SUB	(C)	Fors	upply above 66kV and upto 132kV	-		
TOTAL	LIF	TIRRI	GATION & P. CANAL ABOVE 100 BHP (75kW) (HV-4)	-	-	-
STATE		Rural				
		Urbar				
	(A)	EXTR	A STATE & OTHERS			
SUB TOTAL			EXTRA STATE CONSUMERS	-	-	
BULK		Rural				
		Urbar	1			
-	(A)	NPCL				
SUB	(B)	KESC	0	-		-
TOTAL	BULK SUPPLY			-	-	_
	GRAND TOTAL			546,151	1,769,282	2,905

6.4 BILLING DETERMINANTS FOR FY 2016-17

The actual category-wise billing determinants for the FY 2016-17 is placed in the table below:

Table 6-17: Billing Determinant for FY 2016-17

CHENT	1000	Section 1		2016-17				
SUPPLY				CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED		
LMV1		Rural			The state of the s	ENERGY (MU		
		Urban						
	(A)	Consu	mer getting supply as per "Rural ule"					
		(i)	Un-metered					
		(ii)	Metered		*			
	(B)	Supply	at Single Point for Bulk Load		(+)	-		
(C1) Other Metered Domestic Consumers			477.765		-			
	(C2)	Life Lin	e Consumers/BPL	472,765	1,123,001	1,319		
SUB	DO		LIGHT FAN & POWER (LMV-1)	472,765	1,123,001			
LMV2		Rural			1,123,001	1,319		
		Urban						
	(A)	Consur	ner getting supply as per "Rural le"					
		(i)	Un-metered					
		(ii)	Metered	-		-		
	(B)	Private Advertising/Sign Post/Sign Board/Glow Sign/Flex			-			
	(C)	Other N	Metered Non-Domestic Supply	76,378	222,113	283		

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SUPPLY	25	1 1-2012			2016-17	PROJECTES
TYPE				(NUMBERS)	CONNECTED LOAD (KW)	BILLED ENERGY (MU)
TOTAL	NON	-	TIC LIGHT FAN & POWER (LMV-2)	76,378	222,113	283
LMV3	А	Rural Urban				
	(A)		tered Supply			
		(i)	Gram Panchyat	19	-	121
		(ii)	Nagar Palika & Nagar Panchyat	-		
	(0)	(iii)	Nagar Nigam	18	15,417	67
	(B)		d Supply			
		(i)	Gram Panchyat	-	(±)	
		(ii)	Nagar Palika & Nagar Panchyat Nagar Nigam	-		7.00 Add 1
SUB			JBLIC LAMPS (LMV-3)	18	35.445	350
TOTAL MV4	-	-		10	15,417	67
141 8	A	Rural				
	1072	Rural				4 40
	В	Urban				
	(A)		nstitution(4 A)	550		
	(B)	Private	Institution(4 B)	550	10,787	53
SUB		HT, FAN	POWER FOR PUBLIC/PRIVATE	236	4,587	9
TOTAL LMV5		Rural	ISTITUTION (LMV-4)	786	15,374	63
		Urban				
	(A)	Rural Se	chedule			
		(i)	Un metered Supply	2		
		(ii)	Metered Supply	-	-	-
	(B)	Urban S	chedule	-	-	-
		(i)	Metered Supply			
SUB	PRIV	ATE TUR	E WELL/PUMPING SETS (LMV-5)			
TOTAL	- 154	_	E WELL/POMPING SETS (LMV-5)	1072	(E)	
_MV6		Rural				
	(A)	Urban	NA III			
	(A)	Small &	Medium Power (Power Loom)			
		(i) (ii)	Rural Schedule	(#)	*	-
	(B)		Urban Schedule Medium Power	-	-	
	(0)	(i)	Rural Schedule			
		(ii)	Urban Schedule	11.200	-	-
SUB	SMAI	L & MED	IUM POWER UPTO 100 HP (75)	11,268	126,272	257
TOTAL			(LMV-6)	11,268	126,272	257
MV7		Rural				50300
	743	Urban				
	(A)	Rural Sc				
		(i)	Jal Nigam	1-1		
		(ii)	Jal Sansthan		-	
	(B)	Urban So	Others (Water Works)	-	(*)	28
	100	(i)	Jal Nigam			
		(ii)	Jal Sansthan	560	45.014	
		(iii)	Others (Water Works)	560	45,941	88
SUB		DIIDIYA		33755		
OTAL			WATER WORKS(LMV-7)	560	45,941	88
MV8		Rural				8873
		Urban				
	(A)	Metered	Supply	-		-
	(B)	Un-mete	red Supply	-	-	-
		(1)	STW, Panchayat Raj, WB,			
		(i)	I.Duch, P.Canals, LI upto 100 BHP	5	87	
SUB	CTATE	(ii)	Laghu Dal Nahar above 100 BHP			-
OTAL	STATE	TORE M	ELLS & PUMPS CANAL UPTO 100			
1V9	1	Rural	HP(LMV-8)			
		Urban				b.
	(A)	Metered S	Supply			0
		- reserved built a	AMPLIA			1 7/ 1
	1.12				मुख	य अधियन्ता (स

	SAME	To Control of			2016-17	The state of the s
SUPPLY				CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MI
	-	(i)	Individual Residential Consumers	-		ENERGY (MI
	(m)	(ii)	Others			-
	(B)		tered Supply			
	-	(i) (ii)	Ceremonies	(2)		(-)
SUB		1000	Temporary Shops	-	E 1	343
TOTAL		TEM	PORARY SUPPLY (LMV-9)	2	-	sec.
LMV 10	(A)	Servin	9			
		(i)	Class IV Employees			
		(ii)	Class III Employees	1,759	-	*
		(iii)	Junior Engineers & Equivalent			9
		(iv)	Assistant Engineers & Equivalent	_	-	-
		(v)	Executive Engineers & Equivalent			-
		(vi)	Deputy General Manager & Equivalent	-	-	
		(vii)	CGM/GM & Equivalent posts and above	9		
CHE	(B)	Total P	ensioner & Family Pensioner	1,587		+2
SUB	1	DEPARTM	ENTAL EMPLOYEES (LMV-10)	-		12
HV1		Rural	ETTAL ETTALES (EMV-10)	3,346	-	21
	743	Urban				
	(A)		Schedule			
		(i)	For supply at 11kV	210	55,820	145
		(ii)	For supply above 11kV and upto & Including 66kV	9	19,565	26
		(iii)	For supply above 66kV and upto & Including 132kV		-	-
	(0)	(iv)	For supply above 132kV	-		
	(B)	Rural S				
		(i)	For supply at 11kV		-	
SUB		(ii)	For supply above 11kV and upto & Including 66kV		500	100
OTAL HV2	1	NON INDUSTRIAL BULK LOADS (HV-1)			75,385	171
10-2		Rural				
	(A)	Urban S	chadula			
	100	(i)	For supply at 11kV			
		1388	For supply above 11kV and upto	617	141,756	322
		(ii)	& Including 66kV	5	35,100	148
		(iii)	For supply above 66kV and upto & Including 132kV	2	43,000	210
		(iv)	For supply above 132kV			319
	(B)	Rural Sc	hedule	-		
		(i)	For supply at 11kV	-		
		(ii)	For supply above 11kV and upto & Including 66kV	_	-	-
SUB	LAR	SE & HEA	VY POWER ABOVE 100 BHP (75 kW) (HV-2)	624	219,856	700
V3		Rural		30000	/030	789
	- control	Urban				
	(A)	For supp	ly at the above 132kV	-		
	(B)	For supp	y below 132kV	-	-	
2110	(C)	For Metro	Traction	-		
OTAL	RAILWAY TRACTION (HV-3)			-	-	
V4		Rural				
-	(4)	Urban				
-	(A)	For suppl	y at 11kV	-	-	-
	(B)	For suppl	y above 11kV and upto 66kV		-	-
UB	(C)	For Suppl	v above 66kV and unto 132kV	-		-
TAL	LIF1 II	242	ON & P. CANAL ABOVE 100 BHP (75kW) (HV-4)			-
INA		Rural				

THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLUMN TWO IN COLUMN TW				2016-17	THE RESERVE
SUPPLY TYPE			CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MU)
STATE				Control of the Contro	LIVERGI (MU)
		Urban			
	(A)	EXTRA STATE & OTHERS	0.00		
SUB		EXTRA STATE CONSUMERS	-	-	
BULK		Rural			
		Urban			
	(A)	NPCL			
	(B)	KESCO		-	
SUB TOTAL		BULK SUPPLY	-		-
		GRAND TOTAL	565,964	1,843,359	3,058

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6.5 PROJECTED BILLING DETERMINANTS FOR FY 2017-18 TO 2019-20

The projected category-wise billing determinants for the FY 2017-18 to 2019-20 is placed in the table below:

Table 6-18: Projected Billing Determinant for FY 2017-18 to 2019-20

Aiddits						The Part of the Pa			The same of the sa		20000	
TYPE		CATEGORY		CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	BILLED ENERGY	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY	CONSUMER	CONNECTED	PROJECTED
LMV-1		Rural				(MU)		Manager Calendar	(MU)		/mul our	(MIL)
		Urban										
	(A)	Consumer ge	Consumer getting supply as per "Rural Schedule"									
		(1)	Un-metered									
		(ii)	Metered								-	,
		Supply at					,					
	(8)	Single Point		8								
		tor Bulk		•	18	50	ði.		25	13.	174	
	(C1)	Other Metere	Other Metered Domestic Consumers	240 640	1000000			107				9
100000	(23)	Life Line Consumers/8PL	umers/8PL	210,300	1,103,840	1,367	551,433	1,256,947	1,477	595,548	1,357,502	1,595
SUB TOTAL		DOMEST	DOMESTIC LIGHT FAN & POWER (LMV-1)	202 013		-	,					
LMV-2		Rural		310,300	1,103,840	1,367	551,433	1,256,947	1,477	595,548	1,357,502	1,595
		Urban										
	10.55	Consumer getting										
	ì	per "Rural Schedule"										
		(1)	Designad									
	1	(11)	Metered									
	(8)	Private Advert	Private Advertising/Sign Post/Sign Board/Class Constitution									
		Other Metered	Other Metered Non-Damestic Supply									
SUB TOTAL		NON DOMES	NON DOMESTIC LIGHT FAN & DOWER (1 MV-5)	60,911	428,840	292	85,713	242,422	309	90,800	256 809	227
LMV3	4	Rural		80,911	228,840	292	85,713	242,422	309	90,800	256,809	327
1	1	Urban										
-	(A)	Un-metered Supply	Alddo									
	1	0	Gram Panchyat		-							
	1	(0)	Nagar Palika & Nagar Panchyat			-						*
	100	(111)	Nagar Nigari	18	14,493	63	101	14 404			9	
-	+	Mecered Supply	A				07	566'67	63			
	-		Gram Panchyat				-					
-	-	100	Nagar Palika & Nagar Panchyat				-		-			*
SUB TOTAL		1007	Nagar Nigarri				1			,		
I MV-4	-	-	PUBLIC LAMPS (LMV-3)	18	14,493	19	1.0	4.4.40%		19	14,493	63
	×	Kurai				2	10	14,493	03	18	14,493	63
		Rural										
	0	Urban										
	(A) F	Public Institution(4 A)	in(4 A)	05.3	00000				The second			
	(8)	Private Institution(4 B)	on(4 B)	2/8	10,938	54	909	11,485	57	637	12:059	50
SUB TOTAL	LIGHT,	FAN & POWE	LIGHT, FAN & POWER FOR PUBLIC/PRIVATE INSTITUTION	77.7	4,520	ON.	265	4,898	10	281	5,192	11
			(LMV-4)	828	15,558	63	872	16.382	67	0+0	***	
1 841/1-15		M							70	20.10	132.282	
LMV5		Rural					2002		70	016	17,251	20

Comparison Comparison Comparison Constitute Con						2017-18			2018-19			2019-20	
1,	SUPPLY		CATEGORY		CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	BILLED BILLED ENERGY	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY
		(A)	Rural Schedul				(MU)			(MU)		(mu)	(MU)
10			0	Un metered Supply		,							
		101	The same of the same of	Metered Supply						-			1
A		101	(I)	Mehanad Sumplu									
Right Righ	UB TOTAL		PRIVATE TO	RE WELL / DIMOTNO CETS / LAN. FT	-		*	23					
1	LMV6		Rural	STATE OF THE SELS (LAV-S)	*	-						.10	1
1. Strong is designed browned (2.00) Strong is designed			Urban										
10 10 10 10 10 10 10 10		(A)	Small & Mediu	JM Power (Power Loom)									
1 1 1 1 1 1 1 1 1 1			(1)	Rural Schedule									
18 Stroug be described becomes 1,18,11 186,735 336 12,421 156,072 3599 13,044 205,875 18 Stroug between the control of the control			(ii)	Urban Schedule	-				*				
1 1		(8)	Small & Mediu	Im Power	-			*				- 19	
A			(1)	Rural Schodule									
1 STATE REPORTING POWER UPTO 100 Hz (75) (LAV-6) 11,811 186,725 380 12,423 196,072 399 13,044 205,875			(ii)	Urban Schedule	44 034	4 44 444							
King King	UB TOTAL	S	MALL & MEDIUM	M POWER UPTO 100 HP (75) (1 MV-6)	11,631	186,735	380	12,423	196,072	399	13,044	205,875	419
(4) Urban (10) All Nagam (10) All N	LMV-7		Rural		100/11	180,735	380	12,423	196,072	666 .	13,044	205,875	419
(4) Rural Schedule (1) Integration (2) Rural Schedule (1) Integration (2) Integration (3) Inte			Urban										
(ii) Ma Rigami (iii) All Rigami (iii) All Rigami (iii) All Rigami (iii) All Rigami (iv) All		(A)	Rural Schedule										
(iii) Jal Sanstham Charles Workers Charles Cha			(0)	Jal Nigarn									
(ii) Others (Varier Works) Color Works			(ii)	Jai Sansthan									
(8) Urban Schedule (10) Ala Santa Works(LNV-2) (2) Ala Santa Works(LNV-2) (3) Ala Santa Works(LNV-2) (4) Ala Santa Works(LNV-2) (5) Ala Santa Works(LNV-2) (6) Ala Santa Works(LNV-2) (7) Ala Santa Works(LNV-2) (8) Ala Santa Works(LNV-2) (9) Ala Santa Works(LNV-2) (1) Ala Santa Works(LNV-2) (2) Ala Santa Works(LNV-2) (3) Ala Santa Works(LNV-2) (4) Ala Santa Works(LNV-2) (5) Ala Santa Works(LNV-2) (6) Ala Santa Works(LNV-2) (7) Ala Santa Works(LNV-2) (8) Ala Santa Works(LNV-2) (9) Ala Santa Works(LNV-2) (10)			(99)	Others (Water Works)			-						
(1) Jal Rigation		(8)	Urban Schedul	e e				-					
(ii) Jak Sandthan WorkS(LMV-7) 566 47/126 90 571 47/597 91 577 48/073 (iii) Public Work R WORKS(LMV-7) 566 47/126 90 571 47/597 91 577 48/073 (iii) Public Work R WORKS(LMV-7) 566 47/126 90 571 47/597 91 577 48/073 (i) Runal Supply Runal Residential Consumers 10 10 10 10 10 10 10 1			0	Jal Nigam									
Column Column (Water Works/LW4-1) S66 47,126 90 571 47,597 91 377 48,073	1		(1)	Jal Sansthan	566	47,126	06	571	47 507	01		4 000	*
Runal Public Water Works (LMV-7) See 47,126 90 571 49,593	D TOTAL			Others (Water Works)					1000	3.7	176	48,073	92
(A) Weetered Supply (B) Unimetered Supply (A) Related Supply (A) Related Supply (A) Related Supply (A) Related Supply (B) Unimetered Supply (C) Serving (B) Unimetered Supply (C) Supply (C	MV			IC WATER WORKS(LMV-7)	266	47,126	06	571	47 607	. 0		, ,	-1
(a) Defented Supply (b) Un-metered Supply (c) In uglo 100 BHP (d) Refered Supply (d) Refered Supply (d) Refered Supply (e) Un-metered Supply (e) Laglo 100 BHP (f) Laglo 100 BHP (h) Refered Supply (e) Un-metered Supply (f) Refered Supply (g) Un-metered Supply (g) U	0		Kurai						100/11	34	211	48,073	92
(8) Universities 3 Supply (1) STATE TUBE WELLS & PUMPS CANAL UPTO 100 HPP (LAV-9) L STATE TUBE WELLS & PUMPS CANAL UPTO 100 HPP (LAV-9) L STATE TUBE WELLS & PUMPS CANAL UPTO 100 HPP (LAV-9) R Rufall (A) Preferred Supply (b) Cheers (i) Cheers (ii) Cheers (iii) Cheers (iv) Cheers		(4)	Motoroad County										
(i) 1.1 May a 100 BHP L STATE TUBE WELL'S & PUMPS CANAL UPTO 100 HPCLHV-8) L STATE TUBE WELL'S & PUMPS CANAL UPTO 100 HPCLHV-8) L Melec's Supply (A) 1.1 May a 100 BHP L Melec's Supply (b) 1.1 May a 100 BHP L Melec's Supply (c) 1.1 May a 100 BHP (d) 1.1 TEMPORARY SUPPLY (LMV-9) (d) 1.2 May a 110 Employees (d) 1.2 May a 111 Employees (d) 1.2 May a 111 Employees (d) 1.2 May a 111 Employees (e) 1.1 May a 111 Employees (d) 1.2 May a 111 Employees (d) 1.2 May a 111 Employees (e) 1.2 May a 111 Employees (d) 1.2 May a 111 Employees (e) 1.2 May a 111 Employees (d) 1.2 May a 111 Employees (d) 1.2 May a 111 Employees (e) 1.2 May a 111 Employees (d) 1.2 May a 111 Employees (d) 1.2 May a 111 Employees (e) 1.2 May a 111 Employees (d) 1.2 May a 111 Employees (e) 1.2 May a 1.2 May		(8)	In-material Suppli	The state of the s									
(4) I varietical Register (19) 1 varietical register (19) 1 varietical		101	The contract of the contract o	Selfer and the selfer							1		
STATE TUBE WELLS & PUMPS CANAL UPTO 100 HP(LMV-B) Laghu Dal Rahar above 100 BHP Virtual Linguis Dal Rahar above 100 BHP (LMV-B) Linguis Dal Rahar above 100 HP(LMV-B) Linguis Dal Rahar Explanates & Equivalent Consumers	1			Li unto 100 RHP	*								
STATE TUBE WELLS & PUMPS CANAL UPTO 100 HP(LNV-8) Runal Unban Runal Unban Runal Unban Runal Unban Runal Unban Runal Unban Others Celemonies Unban Celemonies Cele			(8)	Laghu Dal Nahar above 100 BHP									4
Runal	BTOTAL	STAT	TE TUBE WELLS	& PUMPS CANAL UPTO 100 HP(LMV-8)		- 1		,					
(a) Unretered Supply (b) Others (c) Others (d) Temporary Shops (d) Temporary Shops (d) Class III Employees (d) Class III Emplo	9-VM		Rural					,	1				
(a) Netered Supply (i) Cherry (ii) Cherry (ii) Cherry (iii) Temporary Stops (iii) Temporary Stops (iii) Class IV Employees (iii) Class IV Employees (iv) Class III Employee			Urban					1					
(i) Individual Residential Consumers (B) Un-metered Supply (I) Ceremonies (I) Ceremonies (I) Ceremonies (I) Cass IV Employees (II) Class IV Employees (II) Class IV Employees (III) Class IV Employees (IV) Class		(A)	Metered Supply										
(8) Un-metered Supplies (1) Ceremonies (1) Temporary Shops (4) Temporary Shops (4) Class IV Employees (4) Class IV Employees (4) Class IV Employees (4) Class IV Employees (5) Class IV Employees (6) Class IV Employees (7) Assistant Engineers & Equivalent (8) Executive Engineers & Equivalent (9) Assistant Engineers & Equivalent (10) Auroline Engineers & Equivalent (11) Class IV Employees (12) Class IV Employees (13) Assistant Engineers & Equivalent (14) Assistant Engineers & Equivalent (15) Executive Engineers & Equivalent (16) Copiety Comeral Manager & Equivalent (17) Assistant Employees (18) Total Pensioner & Family Pensioner (19) Executive Engineers & Equivalent (19) Capity Comeral Manager & Equivalent (19) Executive Engineers & Equivalent (10) Assistant Employees (10) Assistant Employees (11) Assistant Employees (11) Assistant Employees (12) Assistant Employees (13) Assistant Employees (14) Class IV Employees (15) Total Pensioner & Family Pensioner (15) Total Pensioner & Family Pensioner (16) Total Pensioner & Family Pensioner (17) Assistant Employees (18) Total Pensioner & Family Pensioner (18) Total Pensioner & Family Pensioner (19) Assistant Employees (19) Assistant Employees (19) Assistant Employees (19) Assistant Employees (19) Assistant Engineers & Equivalent (19) Assistant Employees (19) Ass	-	1		Individual Residential Consumers	+								
(4) Ceremonies (i) Temporary Shops (ii) Temporary Shops (iii) Class IV Employees (iii) Assistant Engineers & Equivalent (iv) Assistant (iv) Assistant Engineers & Equivalent (iv) Assistant Engineers & Equivalent (iv) Assistant	-	10/		Others					-				5
(4) Ceremonles: (b) TEMPORARY SUPPLY (LMV-9) (c) Class IV Employees (d) Class IV Employees (e) Class IV Employees & Equivalent (v) Assistant Engineers & Equivalent (v) Assistant Engineers & Equivalent (vi) Debuty General Manager & Equivalent (vii) CGA/GM & Equivalent posts and above (iv) CGA/GM & Equivalent posts and above (iv) Departmental Employees (iv) Assistant Engineers & Equivalent (iv) Assistant Engi	1	(9)	un-metered Su	PDIV									*
(4) Serving TEMPORARY SUPPLY (LMV-9) (1) Class IV Employees (II) Uniterployees (II) Uniterployees (III) Uniterployees (IIII) Uniterployees (IIII) Uniterployees (IIIII) Uniterployees (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		1		Ceremonies				1					
(4) Serving TEMPODARY SUPPLY (LMV-9) (i) Class IV Employees (ii) Class IV Employees (iii) Lass III Employees (iii) Lass III Employees (iv) Assistant Engineers & Equivalent (iv) Assistant Engineers & Equivalent (iv) Executive Engineers & Equivalent (iv) Departy Common Manager & Equivalent (iv) Copuly Copuly Common Manager & Equivalent (iv) Copuly Copuly Copuly Copulation Manager & Equivalent (iv) Copuly Copulation Manager & Equivalent (iv) Copulation Manager	R TOTAL	1		Temporary Shops						-			
(ii) Class II Employees 1,759 5,511 9 1,759 5,511 9 1,759 5,511 (iv) Class II Employees 2 Equivalent (iv) Assistant Engineers & Equivalent (iv) Assistant Engineers & Equivalent (iv) Assistant Engineers & Equivalent (iv) Executive Engineers & Equivalent (iv) CGM/GM & Equivalent posts and above (iv) CGM/GM & Equivalent posts and above (iv) CGM/GM & Equivalent posts and above (iv) Assistant Employees (IMV-10) 3,346 10,394 21 3,346 10,394 21 3,346 10,394	WV10	F	-	URARY SUPPLY (LMV-9)					1.3			- 10	1
(ii) Class IV Employees (iii) Lunior Engineers & Equivalent (iv) Assistant Engineers & Equivalent (iv) Assistant Engineers & Equivalent (iv) Assistant Engineers & Equivalent (iv) Debuty General Manager & Equivalent (iv) CGA/GM & Equivalent posts and above (iv) CGA/GM & Equivalent posts and above (iv) CGA/GM & Equivalent posts and above (iv) Oberty General Manager & Equivalent posts and above (iv) Oberty		t	Ì	Place has been about an									
(iii) Junior Engineers & Equivalent 1,759 5,511 9 1,759 5,511 (iv) Assistant Engineers & Equivalent 1,759 5,511 9 1,759 5,511 (iv) Assistant Engineers & Equivalent 1,759 1,759 5,511 1,759 5,511 (iv) CGM/GM & Equivalent 1,759 1,759 1,759 1,759 1,759 (iv) CGM/GM & Equivalent 1,759 1,759 1,759 1,759 1,759 (iv) CGM/GM & Equivalent 1,759 1,759 1,759 1,759 1,759 (iv) CGM/GM & Equivalent 1,759 1,759 1,759 1,759 1,759 (iv) CGM/GM & Equivalent 1,759 1,759 1,759 1,759 1,759 (iv) CGM/GM & Equivalent 1,759 1,758 1,758 1,567 1,759 (iv) DEPARTMENTAL EMPLOYEES (LMV-10) 3,346 10,394 21 3,346 10,394				Class IV Employees							1		
(V) Assistant Engineers & Equivalent Column Assistant Engineers & Equivalent Column Assistant Engineers & Equivalent Column Assistant Executive Engineers & Equivalent Assistant Engineers & Equivalent Assistant Engineers & Equivalent Assistant Engineers & Equivalent Assistant Engineers & Equivalent Assistant Engineers & Equivalent Assistant Engineers & Equivalent Assistant Engineers & Equivalent Assistant Engineers & Equivalent Assistant Engineers & Equivalent Assistant Engineers & Equivalent Assistant & Executive Engineers & Equivalent Assistant & Executive Engineers & Equivalent Assistant & Executive Engineers & Equivalent Assistant & Executive Engineers & Equivalent Assistant & Executive Engineers & Equivalent Assistant & Executive Engineers & Equivalent Assistant & Executive Engineers & Equivalent Assistant & Executive Engineers & Equivalent Assistant & Executive Engineers & Equivalent Assistant & Executive Engineers & Equivalent Assistant & Executive Engineers & Equivalent Assistant & Executive Engineers & Equivalent Assistant & Executive Engineers & Equivalent Assistant & Executive Engineers & Equivalent Assistant & Executive Engineers & Executive Engineers & Equivalent Assistant & Executive Engineers & Executive Engineers & Equivalent Assistant & Executive Engineers & Executive Engineers & Executive Engineers & Executive Engineers & Executive Engineers & Executive Engineers & Executive Engineers & Executive Engineer		-		Liass III Employees	1,759	5,511	6	1,759	5.511	a	1 750	1 9	, 0
(V) Execution Engineers & Equivalent (VI) Execution Serior Engineers & Equivalent (VI) Execution Brown (VI) CGM/GM & Equivalent posts and above (IS) Total Pensioner & Family Pensioner				Junior Engineers & Equivalent							411.03	91	
(VI) Deputy General Manager & Equivalent (VII) Deputy General Manager & Equivalent posts and above (VII) CGAV,GM & Equivalent posts and above 1,587 4,883 12 1,587 4,883 12 1,587 4,883 Rural DEPARTMENTAL EMPLOYEES (LMV-10) 3,346 10,394 21 3,346 10,394				Assistant Engineers & Equivalent					7				
(b) Total Persioner & Family Pensioner & Family Pen				Cocurs Engineers & Equivalent									
(B) Total Pensioner & Family Pensioner Table 1,587 (4,883) 12 1,587 (4,883) 12 1,587 (4,883) 12 1,587 (4,883) 12 1,587 (4,883) 10,394 21 3,346 10,394 21 3,346 10,394		-		Council a comment of convalent			4						
1.587 4.883 12 1.587 4.883 12 1.587 4.883 12 1.587 4.883 12 1.587 4.883 8.883		t	Total Pencioner	Company of Equivalent posts and above			+						
Rural Rural Rural 21 3,346 10,394 21 3,346 10,394 21 3,346 10,394	3 TOTAL	1	DEPARTME	NTAL EMBLOVERS (1992)	1,587	4,883	12	1,587	4,883	12	1 587	4 893	
	IV1	-	Rural	MALEMPLUTES (LMV-10)	3,346	10,394	21	3,346	10,394	2.1	3.346	10 394	24
												_	1

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				2017-18		William Committee	2018-19		TO THE REAL PROPERTY.	2019-20	
SUPPLY	CATEGORY	<u>ه</u>	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MU)	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY (MIL)	CONSUMER (NUMBERS)	CONNECTED LOAD (KW)	PROJECTED BILLED ENERGY
	(A) Urban Schedule	edule				38					(640)
	H	For supply at 11kV	216	57.495	149	253	0+0.03	14.0			
	(11)	For supply above 11kV and upto & Including 66kV	6	19,956	27	6	20,355	28	553	966,09	158
	(iii)	For supply above 66kV and upto 8 Including 132kV	4					2	07	50,703	78
											•
	(B) Rural Schedule	dule									4
	(6)	For supply at 11kV For subdiv above 11kV and units & Industrial			*	4	4				
CIIB TOTAL	(11)	66kV	200	XI.		7	X			9	
HV-2	NON	NON INDUSTRIAL BULK LOADS (HV-1)	225	77,451	176	232	79.575	181	330	04 460	
	Urban							404	607	81,739	180
	(A) Urban Schedule	edule									
	(0)	For supply at 11kV	629	144,591	328	643	147 483	356	224	1	
	(11)	For supply above 11kV and upto & Including 66kV	S	35,802	151	5	36.518	154	200	150,433	342
	(11)	For supply above 66kV and upto & Including 132kV	24	43,860	325		44 717	333		067740	157
	1	For supply above 132kV			4			200	v	42,032	339
-	(b) Rural Schedule	Julie									
	(0)	For supply at 11kV									
	(1)	For supply above 11kV and upto & Including 66kV	,			,					
SUB TOTAL	LARGE & HEAVY	LARGE & HEAVY POWER ABOVE 100 BHP (75 kW) (HV-2)	636	224,253	804	640	330 338	*****			,
2	Mural						0001000	041	700	233,313	837
	+	at the above a 3 but									
	t	For supply of the addition 132KV	,	*	*						-
H	(C) For Metro Traction	raction									1
SUB TOTAL .		RAILWAY TRACTION (HV-3)								+	
HV4			-				,		1		
1	(A) For supply at 11kV	it 11kV									
	+	For supply above 11kV and upto 66kV									
SUB TOTAL	TET TODICATION 9	For supply above 66kV and upto 132kV									
-	Rural	Rural	1	-							
H	H										
SUR TOTAL	(A) EXTRA STATE & OTHERS	E & OTHERS									
BULK	British	EXTRA STATE CONSUMERS									
	Urban										
7	(A) NPCL										
	B) KESCO						8	3			4
SUB TOTAL	200000000000000000000000000000000000000	BULK SUPPLY									
											,

7. POWER PROCUREMENT PLAN FOR THE MYT CONTROL PERIOD

EXECUTIVE SUMMARY

This report presents the list of key assumptions and methodology employed for estimating the power procurement plan and cost therein for the $1^{\rm st}$ MYT Control Period.

The key inputs to the power procurement plan are the load forecast for the 1st MYT Control Period, technical parameters of thermal plants of UPRVUNL & UPJVNL plants, fuel costs and tariff (i.e. capacity and energy charges) for central sector plants as well as State Sector & IPPs. For UPRVUNL plants, the Petitioner has taken in to consideration the respective Multi-year Tariff (MYT) Petitions filed by UPRVUNL before the Hon'ble Commission. The other technical parameters have been taken from the Uttar Pradesh Electricity Regulatory Commission (Multi Year Generation Tariff) Regulations, 2014 issued by UPERC in respect of state generating stations. The estimated power availability from various sources has been made on the basis of

- Current long term allocation of allocated and unallocated power from State owned/ Central Sector generating stations and IPPs
- New generating capacity coming in ensuing year and during the MYT Control Period
- Indicated availability and plant load factors of various generators and
- Past availability trends and other relevant information in absence of specific indication by some generators.

Similarly, the cost estimates are based on relevant tariff orders, recent bills, existing arrangements, notifications, etc., for various individual sources. The projected availability from various firm sources of power and associated cost estimates are detailed in the sub-sections below. Various documents referred while estimating these parameters, including energy bills from various generating stations for the period upto March, 2017.

The energy sales, system losses and total power procurement costs for $1^{\rm st}$ MYT Control period are provided below:

Particulars		2017-18	2018-19	2019-20
	Unit	MYT Projections	MYT	MYT
Energy Sales	MU	00 504	Projections	Projections
System Losses (Including	1.0	98,694	122,494	144,830
Distribution and Transmission Losses)	%	23.44%	20.24%	16.26%
Energy Required at UPPCL Level	MU	100.000		
Total Power Procurement Cost at	MO	128,908	153,577	172,955
UPPCL Level	Rs Crore	52,919		1/2/000
		32,319	66,033	77,433
Average Power Procurement Cost at UPPCL Level	Rs/kWh	4.11	4.00	
ar of the revel	0.0000000000000000000000000000000000000	7.41	4.30	4.48

POWER PROCUREMENT FROM STATE GENERATING STATIONS

The State of Uttar Pradesh has got both thermal as well as hydro generating stations. UPRVUNL owns all the thermal generating stations within the State and the Hydro Stations are owned by UPJVNL. The Multi Year Tariff (MYT) Petitions filed by the UPRVUNL before the Hon'ble Commission and the UPERC (Terms and Conditions of Generation Tariff) Regulations, 2014 form the basis for determining

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the power purchase costs and thereafter escalations have been considered in the Fixed & Variable Charges for determination of cost for the 1st MYT Control Period.

The computation of cost of power procurement for the 1st Control Period has been done based on

- Provisional power purchase cost and units of FY 2015-16 and FY 2016-17
- Trend observed in the previous and current year.
- Impact of loss reduction initiatives.
- Estimated growth in sales.
- Share of expected capacity available from various Generators to the UPPCL / Discoms.

The projected quantum and cost of energy available from State Thermal and Hydro generating stations has been derived by the Licensee from tariff petitions filed by the UPRVUNL before the Hon'ble State Commission and the UPERC (Terms and Conditions of Generation Tariff) Regulations 2014. Additionally, the Petitioner has also considered the actual energy bills for the period April 2016 to March, 2017. Thus the total power purchased from State Thermal and Hydro Generating Stations for FY 2017-18 is given in the table below:

DETAILS OF POWER PURCHASE COST FROM UPRUVNL STATIONS FOR FY 2017-18

Source of Power	MW	MU	1000	ed Cost	Varia	ble Cost	То	tal Cost	Average
	Available		(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. /
Procurement of	power from	State Sect	or Generat	ing Stations			Kaaii)		kWh)
Thermal St	ations		A CONTRACTOR	3 - 13 - 13		1			,
Anpara A	630	3535	0.79	279.52	2.57	908.81	2.26	1 100 77	
Anpara B	1000	7304	0.67	489.52	2.08	The state of the s	3.36	1,188.33	3.36
Harduagunj	105	370	2.35	87.15	The second secon	1,518.88	2.75	2,008.40	2.75
Obra A	194	306	1.76		3.80	140.77	6.15	227.92	6.15
Obra B	1000	3560	111111111111111111111111111111111111111	53.84	2.45	74.89	4.21	128.73	4.21
Panki	210	747	0.69	246.75	2.35	837.42	3.05	1,084.17	3.05
Parichha	220		1.63	121.63	3.80	283.74	5.43	405.37	5.43
Parichha Extn.		430	1.06	45.49	3.80	163.49	4.86	208.98	4.86
	420	2411	1.35	324.36	3.80	916.03	5.15	1,240.40	5.15
Parichha Extn. Stage II	500	3189	1.81	577.41	3.80	1,211.68	5.61	1,789.09	5.61
Harduaganj Ext.	500	3189	1.97	627.38	3.80			36 (A SECTION)	3.01
Anpara D	1000	5779	2.23	1,288.44		1,211.68	5.77	1,839.06	5.77
Total	5779	30819			2.33	1,347.68	4.56	2,636.12	4.56
Inches Control	0,73	20019	1.34	4,141.49	2.80	8,615.08	4.14	12,756.57	4.14

DETAILS OF POWER PURCHASE COST FROM UPRUVNL STATIONS FOR FY 2018-19

					or or no	VILSIAIL	DNS FOR	FY 2018-19)
Source of Power	MW	MU		ed Cost	Varia	able Cost	Tot	tal Cost	Average
and the second	Available		(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. /
Anpara A	630	4292	0.79	339.55	2.67	1,147.69			kWh)
Anpara B	1000	7055	0.69	485.68	2.16	the state of the s	3,46	1,487.24	3.46
Harduagunj	105	535	2.43	The second second second second		1,525.78	2.85	2,011.46	2.85
Obra A	94	519	The second second	130.14	3.95	211.47	6.38	341.61	6.38
Obra B	1000	The second secon	3.76	194.89	2.55	132.08	6.30	326.97	6.30
Panki		6328	0.72	453.56	2.45	1,548.30	3.16	2,001.86	3.16
Parichha	105	581	3.37	195.83	3.95	229.52	7.32	425.35	7.32
	220	1291	1.08	139.44	3.95	510.10	5.03		
Parichha Extn.	420	2846	1.34	381.95	3.95	1,124,68	The state of the latest and the state of the	649.54	5.03
Parichha Extn.	500	3388	1.79	607.06	Committee of the Parket of the	The state of the s	5.29	1,506.63	5.29
Stage II			****	007.00	3.95	1,338.91	5.74	1,945.97	5.74
Harduaganj Ext.	500	3388	1.94	658.65	2.05	4 220 01		110000111000	
100000000000000000000000000000000000000			4134	030.03	3.95	1,338.91	5.90	1.997.56	NE 90

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Source of Power	MW Available	ми	Fix	ed Cost	Vari	iable Cost	То	tal Cost	Average
Anpara D	1000	7018	2.23	1,567.85	2.42	1 701 00		THE PERSON NAMED IN	Cost
Total	5574		4.20		2.43	1,701.93	4.66	3,269.77	4.66
	33/4	37240	1.38	5,154.60	2.90	10,809.37	4.29	15,963.97	4.29

DETAILS OF POWER PURCHASE COST FROM UPRUVNL STATIONS FOR FY 2019-20

Source of Power	MW Available	MU	-	ed Cost	Vari	able Cost	То	tal Cost	Average
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. /
Anpara A	630	4292	0.82	353.13	2.78	1,193.60	3.60	1 EAC 22	kWh)
Anpara B	1000	7055	0.72	505.11	2.25	1,586.81		1,546.73	3.60
Harduagunj	105	535	2.53	135.35	4.11	The second second second second	2.97	2,091.92	2.97
Obra A	94	519	3.91	202.69		219.93	6.64	355.27	6.64
Obra B	1000	6328	0.75	The second second	2.65	137.36	6.55	340.05	6.55
Panki	105		The second second	471.70	2.54	1,610.23	3.29	2,081.93	3.29
Parichha	220	581	3,51	203.66	4.11	238.70	7.62	442.36	7,62
Parichha Extn.		1291	1.12	145.02	4.11	530.51	5.23	675.52	5.23
Note the Annual Print Street West Control of the Co	420	2846	1.40	397.23	4.11	1,169.67	5.51	1,566.90	The second second
Parichha Extn. Stage II	500	3388	1.86	631.34	4.11	1,392.47	5.97	2,023.81	5.51
Harduaganj Ext.	500	3388	2.02	685.00	4.11	1 202 15	GENERAL .	A MARKON MARK	3.37
Anpara D	1000	7018	2.32	The state of the s	4.11	1,392.47	6.13	2,077.46	6.13
Total	5574	37240	The second secon	1,630.56	2.52	1,770.00	4.85	3,400.57	4.85
	3374	3/240	1.44	5,360.78	3.02	11,241.75	4.46	16,602.53	4.46

DETAILS OF POWER PURCHASE COST FROM UPJVNL STATIONS FOR THE 1 $^{\rm ST}$ CONTROL PERIOD

	+		FY 2	017-18	FY 20	18-19	FY 20	19-20
Source of Power	MW		Tot	al Cost	Tota	Cost		Cost
AND AND AND AND AND AND AND AND AND AND	Available	MU	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs.
Khara	58	217	0.81	17.63	0.85	18.34	0.88	Cr.)
Matatila	20	81	0.75	6.04	0.78	6.28		19.07
Obra (Hydel)	99	217	0.70	15.16			0.81	6.53
Rihand	255	469	The same of the sa		0.73	15.77	0.76	16.40
UGC Power Stations	14		0.64	29.97	0.66	31.16	0.69	32.41
Belka & Babail		22	2.39	5.17	2.49	5.37	2.59	5.59
	6	2	2.25	0.47	2.25	0.47	2.34	0.49
Sheetla	4	2	2.84	0.63	2.95	0.65	1000000	
Total	455	1009	0.74	75.07			3.07	0.68
			0.74	/5.0/	0.77	78.05	0.80	81.17

The assumptions considered while projecting the power purchase from the State owned thermal generating stations and Hydro stations are given below in Table below for each source respectively:

ASSUMPTIONS FOR POWER PURCHASE FROM UPRVUNL

S. No.	Particulars	Assumption
1	Power Purchase Quantum	Net Power Purchase Quantum for FY 2017-18 is considered based on the Provisional Availability for FY 2016-17 and thereafter for the next two years of the Control Period it has been assumed that all the stations will be able to perform at their target availability. The Auxiliary Consumption norms have been considered in line with the UPERC MYT Generation Tariff Regulations, 2014.
2	Fixed & Variable Charges	The Capacity Charges have been considered based on the UPERC's Review Order dated 18.01.2017 for UPRVUNL for the period FY 20014-15 to 2018-19. Thereafter an yearly increase of 4% has been considered for FY 2019-20. An increase of 3% has been considered for calculation of the Variable Charges for each power station. Additionally the improvement in norms and operation parameters along with other changes in cost

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S. No.	Particulars	Assumption
		parameters stipulated by the UPERC (Terms and Conditions of Generation Tariff) Regulations, 2014 have been duly considered while projecting the capacity and energy charges.

ASSUMPTIONS FOR POWER PURCHASE FROM LIPTUNI

S. No.	Particulars	Assumption Assumption
1	Power Purchase Quantum	Net Power Purchase Quantum for the MYT Period for all power stations of UPJVNL has been considered based on the latest bills available for last year
. 2	Fixed & Variable Charges	The same for all power stations of UPJVNL has been considered based on the latest bills available for last year with an escalation of 4%.

CAPACITY ALLOCATION FROM CENTRAL GENERATING STATIONS & OTHER STATIONS

Central Generating Stations (CGS) comprise of stations belonging to the National Thermal Power Corporation (NTPC), National Hydro Power Corporation Ltd. and the Nuclear Power Corporation of India Ltd. (NPCIL). At present, UPPCL has a firm share allocation for drawl of power from all stations of NTPC, NHPC and NPCIL Stations. In addition to the firm share allocation, most of these stations have unallocated power. The distribution of this unallocated power among the constituents of Northern Region is decided from time to time based on power requirement and power shortage in different States. UPPCL also gets a substantial portion of the unallocated share.

UPPCL's current Allocated share from various Central Sector Plants is projected as per NRPC circular which contains the UPPCL's total share includes the allocated share from unallocated power also.

The variable (Primary & Secondary fuel) costs of Central Sector plants and other plants have been taken from the energy bills for the period FY 2015-16 and 2016-17 and are inclusive of FPA. All variable costs have been escalated by 3% for the control period.

The computation of cost of power procurement for the 1st Control Period has been done based on

- Provisional power purchase cost and units of FY 2015-16 and 2016-17
- Trend observed in the previous and current year
- Impact of loss reduction initiatives.
- Estimated growth in sales.
- Share of expected capacity available from various Generators to the Licensee

The cost of power purchase from IPPs within the State and outside the State has been derived from the latest available bills of the generators for the period FY 2015-16 and 2016-17. The cost of energy from other sources has been derived from the power purchase / banking / trading agreements and tariffs approved by the Central / Appropriate Commissions. Further the fixed charges and variable charges have been escalated by 4% all power stations.

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The power purchased from NTPC generating stations for FY 2017-18 is provided in table given below:

DETAILS OF POWER PURCHASE COST FROM NTPC STATIONS FOR FY 2017-18

Source of Power	MW Available	MU	1	ed Cost	Varia	able Cost	Tot	tal Cost	Average
	1930000	10000	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)
Anta	119	254	2.44	61.82	2.84	71.98	5.27	133.80	5.27
Auriya	244	310	2.96	91.90	3.40	105.41	6.36	197.31	
Dadri Thermal	84	536	0.94	50.31	3.54	189.52	4.48		6.36
Dadri Gas	272	970	1.12	109.04	2.75	267.14	3.88	239.83	4.48
Dadri Extension	135	838	1.81	151.72	3.28	274.72	and placed the second section to	376.18	3.88
Rihand-I	360	2394	0.88	211.15	1.85	443.62	5.09	426.44	5.09
Rihand-II	333	2655	0.78	206.34	1.68	The state of the s	2.74	654.77	2.74
Singrauli	822	6031	0.59	353.76	The second second	446.63	2.46	652.97	2.46
Tanda	440	2985	1.19	354.81	1.71	1,031.69	2.30	1,385.45	2.30
Unchahar-I	255	1670	0.89	147.95	3.34	995.63	4.52	1,350.44	4.52
Unchahar-II	146	1142	0.77		3.07	512.86	3.96	660.81	3.96
Unchahar-III	72	570	1.18	. 88.10	3.09	352.41	3.86	440.51	3.86
Farakka	35	242	0.86	67.26	3.36	191.65	4.54	258.91	4.54
Kahalgaon St. I	77	553		20.85	2.77	67.09	3.63	87.93	3.63
Kahalgaon St.II	252	1851	0.97	53.91	2.60	143.97	3.58	197.88	3.58
Ph.I	232	1001	1.09	202.38	2.33	431.80	3.43	634.18	3.43
Koldam (Hydro)	101	699	4.29	299.90	2.21	154.70			
Rihand-III	361	2823	1.36	384.72	2.21	154.72	6.51	454.61	6.51
Total	4109	26523	4.30	The state of the second	1.72	486.05	3.08	870.77	3.08
				2,855.92		6,166.87		9,022.79	3.40

DETAILS OF POWER PURCHASE COST FROM NTPC STATIONS FOR FY 2018-19

Source of Power	MW	MU		ed Cost	Varia	ble Cost	Tot	al Cost	Average
	Available		(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. /	(Rs. Cr.)	Cost (Rs. /
Anta	119	304	0.75	64.29	2.98	90.69	kWh)		kWh)
Auriya	244	414	0.54	95.57	3.57	the second secon	3.72	154.99	5.09
Dadri Thermal	84	536	0.94	52.33	The state of the s	147.57	4,11	243.14	5.87
Dadri Gas	272	1039	0.58	The second secon	3.68	197.10	4.62	249.43	4.66
Dadri Extension	135	860	1.77	113.40	2.89	300.54	3.47	413.94	3.98
Rihand-I	360	2451	0.92	157.79	3.41	293.03	5.18	450.83	5.24
Rihand-II	333	2655	The second secon	219.60	1.93	472.48	2.84	692.08	2.82
Singrauli	822	6031	0.97	214.59	1.75	464.49	2.72	679.08	2.56
Tanda	440	The second secon	0.68	367.91	1.78	1,072.95	2.46	1,440.87	2.39
Unchahar-I	255	2985	1.31	369.00	3.47	1,035.46	4.78	1,404.46	4.71
Unchahar-II	T TO T A COLUMN TO THE PARTY OF	1670	0.91	153.87	3.19	533.38	4.10	687.24	4.12
Unchahar-III	146	1142	0.95	91.62	3.21	366.50	4.16	458.13	4.01
Farakka	72	570	1.48	69.95	3.50	199.32	4.97	269.26	
Kahalgaon St. I	35	242	0.92	21.68	2.88	69.77	3.80	91.45	4.72
	77	553	1.10	56.06	2.71	149.73	3.81	The state of the s	3.78
Kahalgaon St.II Ph.I	252	1851	1.26	210.48	2.43	449.08	3.69	205.79	3.72
Koldam (Hydro)	101	699	1.56	311.89	2.30	160.91		659,55	3.56
Rihand-III	361	2823	1.67	400.11	1.79	The state of the s	3.86	472.80	6.77
Uchchahar-IV	117	626	1.48	92.57		505.49	3.46	905.60	3.21
Total	4226	27452		The state of the s	3.50	218.94	4.97	311.51	4.97
			-	3063		6727		9790	3.57

DETAILS OF POWER PURCHASE COST FROM NTPC STATIONS FOR FY 2019-20

Source of Power	MW Available	MU	Fixed Cost		Variable Cost		Total Cost		Average Cost
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. /	(Rs. Cr.)	(Rs. /
Anta	119	304	0.78	66.86	3.13	len de la companya de	kWh)	,,,,,,	kWh)
Auriya	244	414	0.57			95.23	3.90	162.09	5.33
Dadri Thermal	84	536	The state of the s	99.40	3.74	154.95	4.31	254.35	6.15
Dadri Gas	272		0.98	54.42	3.83	204.98	4.81	259.40	4.84
Dadri Extension	1	1039	0.60	117.94	3.04	315.56	3.64	433.50	
	135	860	1.84	164.10	3.54	304.76			4.17
Rihand-I	360	2451	0.95	228.38	The first of the second of the second		5.38	468.86	5.45
Rihand-II	333	2655	1.01		2.00	491.38	2.96	719.76	2.94
Singrauli	822		The state of the s	223.18	1.82	483.07	2.83	706.25	2.66
the same of the sa	022	6031	0.70	382.63	1.85	1,115.87	2.55	1,498.50	2.48

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Source of Power	MW Available	MU	Fixed Cost		Variable Cost		Total Cost		Average Cost	
7			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. /	(Rs. Cr.)	(Rs. /	
Tanda	440	2985	1.36	383.76	3.61	1.076.07	kWh)		kWh)	
Unchahar-I	255	1670	0.95	160.02		1,076.87	4.97	1,460.64	4.89	
Unchahar-II	146	1142	0.98	95.29	3.32	554.71	4.27	714.73	4.28	
Unchahar-III	72	570	1.54	The state of the s	3.34	381.16	4.32	476.45	4.17	
Farakka	35	242		72.75	3.64	207.29	5.17	280.03	4.91	
Kahalgaon St. I	77	100000000000000000000000000000000000000	0.95	22.55	3.00	72.56	3.95	95.11	3.93	
Kahalgaon St.II Ph.I		553	1.14	58.31	2.82	155.72	3.96	214.02		
Koldam (Hydro)	252	1851	1.31	218.89	2.52	467.04	3.83	685.93	3.87	
	101	699	1.56	324.37	2.39	167.34			3.71	
Rihand-III	361	2823	1.74	416,11	1.86	The second secon	3.95	491.71	7.04	
Tanda Stage-II	155	830	1.36	113.09	The second section is a second second	525.71	3.60	941.82	3.34	
Uchchahar-IV	117	819	1.55		3.61	299.31	4.97	412.40	4.97	
Total	4381	28474	1.33	127.11	3.67	300.62	5.22	427.73	5.22	
	1001	204/4		3329		7374		10703	3.76	

The assumptions considered while projecting the power purchase from the NTPC generating stations is given in Table below:

ASSUMPTIONS OF POWER PURCHASE FROM NTPC

S. No.	Particulars	Assumption
1	Power Purchase Quantum	Net Power Purchase Quantum is derived as a product or respective power plants MW capacity, plant load factor (PLF and UP state's share in respective power plant. Further the quantum is approved as per Merit order despatch principles. We have also referred to the actual plant load factor of such stations for the last 2 years while projecting the PLF for the Control period.
2	Fixed Charges	Fixed charges are computed after considering UP state's allocated share in respective power plant as per Regional Energy Accounting Report and Annual Report of NRPC and ERPC and fixed cost as per the latest available bills of the generating station. Further the escalation factor has been considered @ 4%.
3	Variable Charges	Variable cost is considered as per the recent energy bills raised for the period FY 2015-16 and 2016-17. Further the escalation factor has been considered @ 4%.

The summary of power purchased from NHPC generating stations is provided in table given below:

DETAILS OF POWER PURCHASE COST FROM NHPC STATIONS FOR FY 2017-18

Source of Power	MW	MU	Fixed Cost		Variable Cost		Total Cost		Average
	Available		(Rs. / kWh)	(Rs. Cr.)	(Rs. /	(Rs. Cr.)	(Rs. /	(n- c)	Cost (Rs. /
Chamera	109	434	0.94	40.76	kWh)		kWh)	(Rs. Cr.)	kWh)
Chamera-II	86	401	1.27	40.76	1.27	55.23	2.21	95.98	2.21
Chamera-III	62	240	The second secon	50.76	1.38	55.29	2.65	106.05	2.65
Dhauliganga	75	Charles de Monte de la companya del la companya de	2.55	61.27	2.42	58.09	4.97	119.35	
Salal I&II	48	246	1.74	42.81	2.48	61.12	4.22	103.92	4.97
Tanakpur	21	225	0.64	14.29	1.82	40.92	2.46	The state of the s	4.22
Uri		63	2.55	15.99	2.52	15.81	The second second	55.21	2.46
Dulhasti	96	548	0.88	48.02	1.47	80.57	5.06	31.80	5.06
Sewa-II	111	628	2.74	172.18	3.48	The second secon	2.35	128.59	2.35
	35	134	3.00	40.12	2.45	218.30	6.22	390.48	6.22
Uri-II	60	371	2.74	101.57	The second secon	32.75	5.45	72.88	5.45
Parbati ST-III	140	180	2.32		4.06	150.28	6.80	251.85	6.80
			2.32	41.79	2.87	51.61	5.19	93.40	5.19

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Source of Power	MW Available	MU	Fixed Cost		Variable Cost		Total Cost		Average	
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	
Kishanganga HEP	64	277	2.50							
Total	100 PAR 100 PA	The second second second	2.50	69.24	2.40	66.47	4.90	135.71	4.90	
Total	908	3746		699		886		1585	4.23	

DETAILS OF POWER PURCHASE COST FROM NHPC STATIONS FOR FY 2018-19

Source of Power	MW Available	MU	-	ed Cost	Variable Cost		Tot	al Cost	Average
Chamilton		THE REAL PROPERTY.	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. /
Chamera	109	434	0.98	42,39	1.32	57.43	2.30	00.00	kWh)
Chamera-II	86	401	1.32	52.79	1.44	The state of the s	The second secon	99.82	2.30
Chamera-III	62	240	2.65	63.72	The second second	57.51	2.75	110.30	2.75
Dhauliganga	75	246	1.81	44.52	2.51	60.41	5.16	124.12	5.16
Salal I&II	48	225	0.66	The second section is a second	2.58	63.56	4.39	108.08	4.39
Tanakpur	21	63	The state of the s	14.86	1.89	42.56	2.55	57.42	2.55
Uri	96	The state of the s	2.65	16.63	2.62	16.44	5.27	33.07	5.27
Dulhasti	111	548	0.91	49.94	1.53	83.79	2.44	133.73	2.44
Sewa-II		628	2.85	179.06	3.62	227.04	6.47	406.10	6.47
Uri-II	35	134	3.12	41.73	2.55	34.06	5.67	75.79	5.67
Parbati ST-II	60	371	2.85	105.63	4.22	156.29	7.07	261.92	7.07
AND THE RESERVE OF THE PARTY OF	155	0	-		-		VVVII (2000)	202.52	7.07
Parbati ST-III	140	180	2.42	43.46	2.98	53.68	5.40	07.14	
Kishanganga HEP	64	277	2.45	67.85	2.60	72.01	and the state of t	97.14	5.40
Parbati II	155	671	2.45	164.33	102001000000000000000000000000000000000		5.05	139.86	5.05
Total	1218	4417		887	2.60	174.40	5.05	338.73	5.05
				00/		1099		1986	4.50

DETAILS OF POWER PURCHASE COST FROM NHPC STATIONS FOR FY 2019-20

Source of Power	MW	MU	Fixe	ed Cost	Varia	able Cost	Tot	al Cost	Average
	Available		(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. /	(Rs. Cr.)	Cost (Rs. /
Chamera	109	434	1.02	44.08	1.38		kWh)		kWh)
Chamera-II	86	400	1.37	54.90	1.49	59.73	2.39	103.82	2.39
Chamera-III	62	240	2.76	66.26	Printed the second second second second	59.63	2.87	114.53	2.87
Dhauliganga	75	245	1.89	46.30	2.61	62.65	5.38	128.92	5.38
Salal I&II	48	225	0.69	15.45	2.69	65.92	4.57	112.22	4.57
Tanakpur	21	63	2.76	Control of the Contro	1.97	44.26	2.66	59.71	2.66
Uri	96	548	0.95	17.30	2.72	17.10	5.48	34.39	5.48
Dulhasti	111	626	2.97	51.93	1.59	87.14	2.54	139.08	2.54
Sewa-II	35	133	3.25	186.23	3.76	235.51	6.73	421.74	6.73
Uri-II	51	314	3.50	43.40	2.65	35.34	5.90	78.73	5.90
Parbati ST-II	160	0	3.50	109.86	4.39	137.81	7.88	247.67	7.88
Parbati ST-III	104	134	3.38	45.00	-		-		#DIV/0!
Tapovan Vishnu	101	262	The same of the sa	45.20	3.10	41.53	6.48	86.73	6.48
Gad	201	202	2.45	64.25	2.60	68.18	5.05	132.43	5.05
Kishanganga HEP	64	277	2.45	70.50				0002447	0.00
Vishnugarh	166	431	2.45	70.57	2.70	74.89	5.15	145.46	5.25
Pipalkoti	100	431	2.45	105.60	2.60	112.06	5.05	217.66	5.05
Parbati II	155	671	2.45						3.03
Kameng	55		2.45	170.91	2.70	181.37	5.15	352.28	5.25
Total	1499	143	2.45	34.99	2.60	37.13	5.05	72.12	
	1439	5146		1127		1320		2448	5.05 4.76

The assumptions considered while projecting the power purchase from the NHPC generating stations is given in table below:

ASSUMPTIONS FOR POWER PURCHASE FROM NHPC

S. No.	Particulars	Assumption
1	Power Purchase Quantum	Net Power Purchase Quantum is derived as a product of respective power plants MW capacity, plant load factor (PLF) and UP State's share in respective power plant.

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S. No.	Particulars	Assumption
3	Fixed Charges	Fixed charges are computed after considering UP state's allocated share in respective power plant as per Regional Energy Accounting Report and Annual Report of NRPC and fixed cost as per the latest available bills for the period FY 2015-16 and 2016-17. Further the escalation factor has been considered @ 4%.
4	Variable Charges	Variable cost is considered as per the recent energy bills raised for the period FY 2015-16 and 2016-17. Further the escalation factor has been considered @ 4%.

The summary of power purchased from NPCIL generating stations for the $1^{\rm st}$ Control period is provided in table given below:

DETAILS OF POWER PURCHASE COST FROM NPCIL STATIONS FOR FY 2017-18

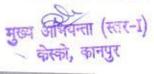
Source of MW	MU	Fixed Cost		Variable Cost		Total Cost		Average	
Power	NADD AVAILABLE		(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. /	(Rs. Cr.)	Cost (Rs. /
	166	1148	-				kWh)	(113. 01.)	kWh)
RAPP #3&4	80	543			2.75	316.25	2.75	316.25	2.75
RAPP#5&6	115	715			3.20	174.09	3.20	174.09	3.20
Total NPCIL	361	2407	-	-	3.86	276.29	3.86	276.29	3.86
		2407				766.63	1000	766.63	3.19

DETAILS OF POWER PURCHASE COST FROM NPCIL STATIONS FOR FY 2018-19

Source of MW Power Available	ми	Fixed Cost		Variable Cost		Total Cost		Average Cost	
	Available		(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. /
NAPP	166	1148	-		2.86	328.90	11000000		kWh)
RAPP #3&4	80	543				328.90	2.86	328.90	2.86
DADDUECE		343		74	3.33	181.05	3.33	181.05	3,33
RAPP#5&6	115	765	19	2	4.02	202.25		1700,000	3,33
Total NPCIL	361	2456			4.02	307.35	4.02	307.35	4.02
	301	2456	Z DIAN			817.30		817.30	3.33

DETAILS OF POWER PURCHASE COST FROM NPCIL STATIONS FOR FY 2019-20

Source of	Source of MW Power Available	MU	Fixed Cost		Variable Cost		Total Cost		Average
NAPP			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs.	(Rs. /	(Rs. Cr.)	Cost (Rs. /
2.77 10 4	166	1148				Cr.)	kWh)	(kWh)
RAPP #3&4	80	543		-	2.98	342.06	2.98	342.06	2.98
RAPP#5&6	115	765			3.47	188.29	3.47	188.29	3.47
RAPP#7&8	162	634			4.18	319.64	4.18	319.64	
Sub-Total			TO SELECT OR SERVICE	-	4.18	264.73	4.18	264.73	4.18 4.18
NPCIL	523	3090				1115		1115	3.61



The assumptions considered while projecting the power purchase from the NPCIL generating stations is given in table below:

ASSUMPTIONS FOR POWER PURCHASE FROM NPCIL

S. No.	Particulars	Assumption
1	Power Purchase Quantum	Net Power Purchase Quantum is derived as a product of respective power plants MW capacity, capacity factor and UP state's share in respective power plant.
2	Tariff (Single part)	Variable cost is considered as per the recent energy bills raised for the period FY 2015-16 and 2016-17. Further the escalation factor has been considered @ 4%.

The summary of total power purchased from IPPs and Joint Ventures (JVs) for the 1st Control Period is provided in table given below:

DETAILS OF POWER PURCHASE COST FROM IPPS / JVs FOR FY 2017-18

Source of Power	MW	MU	-	ed Cost	Varia	able Cost	То	tal Cost	Average
	Available		(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. /
NATHPA JHAKRI HPS	287	1498	1.63	244.75	1.46	219.14	3.10	463.89	3.10
RAMPUR	96	375	2.03	76.10	1.75				
TALA POWER	45	158	2.00	70.10		65,54	3.78	141.64	3.78
Koteshwar	173	569	2.03	115.67	2.11	33.21	2.11	33.21	2.11
Srinagar	290	1135	3.25	368.77	1.97	112.33	4.01	228.00	4.01
Sasan	495	3686	0.17	62.97	2.59	293,74	5.84	662.51	5.84
MB Power	350	2453	2.88	706.00	1.76	649.82	1.93	712.79	1.93
KSK	505	2415	2.21	the second secon	2.10	514.28	4.98	1,220.28	4.98
TRN Energy	150	489	1.90	533.20	2.72	656.77	4.93	1,189.96	4.93
Karcham-	200	870	1.90	93.02	1.41	68.93	3.31	161.95	3.31
Wangtoo	200	0,0			4.13	359.23	4.13	359.23	4.13
VISHNUPRAYAG	352	2082	0.76	157.69	1.45	302.40	2.24	10000000	
TEHRI STAGE-I	418	1447	2.91	420.64	2.86	The Assessment of the Assessme	2.21	460.09	2.21
Rosa Power Project	600	4066	1.76	716.81	3.27	413.65 1,328.86	5.77 5.03	834.29 2,045.67	5.77 5.03
Rosa Power Project	600	4066	1.76	716.81	3.27	1,330.42	5.04	2,047.23	5.04
Bara	1782	9910	1.68	1 552 66				The design of the same of the	554760
Anpara 'C'	1100	7453	0.92	1,662.98	2.49	2,466.57	4.17	4,129.56	4.17
IGSTPP,	51	266	2.58	689.08	3.00	2,233.24	3.92	2,922.32	3.92
Jhajhjhar		200	2.58	68.67	4.35	115.54	6.93	184.21	6.93
Bajaj Hindusthan	450	2456	2.84	697.84	4.38	1,075.01	7.22	1,772.86	7.22
Lalitpur	1782	9386	2.07	1.045.50	2.00				
RKM Powergen	350	1996	2.40	1,945.56	2.97	2,784.85	5.04	4,730.41	5.04
Teesta	200	806	2.30	479.63	1.53	306.18	3.94	785.81	3.94
Total	10275	57580	2.30	185.36	2.30	185.36	4.60	370.72	4.60
		37300		9942		15515	10000	25457	4.42

DETAILS OF POWER PURCHASE COST FROM IPPS / JVs FOR FY 2018-19

Source of Power	MW Available	ми	Fixed Cost		Variable Cost		Total Cost		Average
NATION AND A			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. /	(Rs. Cr.)	(Rs. /
NATHPA JHAKRI HPS	287	1498	1.70	254.54	1.52	227.91	kWh) 3.22	482.45	3.22
RAMPUR	96	416	2.11	07.00	4.00		The Property		8.55
TALA POWER	45	197	2.11	87.93	1.82	75.73	3.93	163.67	3.93
Koteshwar	173	749	2		2.19	43.17	2.19	43.17	2.19
Srinagar	290	1261	2.11	158.28	2.05	153.71	4.17	311.99	4.17
Sasan	495	The state of the s	3.38	426.13	2.69	339.43	6.07	765.56	6.07
MB Power	350	3686	0.18	65.49	1.83	675.82	2.01	741.30	2.01
KSK	The second secon	2606	2.99	780.13	2.18	568.28	5.17	1,348.41	100000000000000000000000000000000000000
TRN Energy	505	3221	2.30	739.36	2.83	910.72	5.12	The state of the s	5.17
TRIV Ellergy	150	855	1.98	169.30	1.47	125.45	3.45	1,650.08 294.75	5.12

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Source of Power	MW	MU	Fixe	ed Cost	Varia	ble Cost	Tot	al Cost	Average
	Available		(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)
Karcham- Wangtoo	200	870	I bearing		4.29	373.60	4.29	373.60	4.29
VISHNUPRAYAG	352	2082	0.79	164.00	1.51	314.49	2.20	470.40	
TEHRI STAGE-I	418	1809	3.02	546.83	2.97	537.75	2.30	478.49	2.30
Rosa Power	600	4066	1.83	The second second	The second particle before the	T 7 T T T T T T T T T T T T T T T T T T	6.00	1,084.58	6.00
Project		1000	1.03	745.48	3.40	1,382.01	5.23	2,127.50	5.23
Rosa Power Project	600	4066	1.83	745.48	3.40	1,383.64	5.24	2,129.12	5.24
Bara	1782	12572	1.75	2,194.15	2.59	2.254.44			
Anpara 'C'	1100	7453	0.96	716.64		3,254.41	4.33	5,448.55	4.33
IGSTPP, Jhajhjhar	51	368	2.69	The second second second second	3.12	2,322.57	4.08	3,039.21	4.08
Bajaj Hindusthan	450	2982	7.00	98.79	4.52	166.22	7.21	265.01	7.21
Lalitpur	1782	12274	2.43	725.76	4.55	1,357.59	6.99	2,083.34	6.99
RKM Powergen			2.16	2,645.96	3.09	3,787.39	5.24	6,433.36	5.24
Teesta	350	2424	2.50	605.70	1.60	386.66	4.09	992.37	4.09
The second secon	, 200	967	2.39	231.33	2.39	231.33	4.78	462.66	4.78
NTPC Meja	458	2239	2.23	500.15	2.30	514.91	4.53	1,015.06	4.53
Total	10733	68660		12601		19133		31734	4.62

DETAILS OF POWER PURCHASE COST FROM IPPS / JVs FOR FY 2019-20

Source of Power	MW Available	MU		ed Cost		able Cost	Tot	tal Cost	Average
			(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. /
NATHPA JHAKRI HPS	287	1498	1.77	264.72	1.58	237.02	3.35	501.75	3.35
RAMPUR	96	499	2.20	109.74	1.89	94.52			
TALA POWER	45	236	-		2.28	53.87	4.09	204.26	4.09
Koteshwar	173	898	2.20	197.53	2.14	The state of the s	2.28	53.87	2.28
Srinagar	290	1514	3.51	531.81	2.80	191.84	4.33	389.37	4.33
Sasan	495	3686	0.18	68.10	1.91	423.61	6.31	955.42	6.31
MB Power	350	2606	3.11	811.33	2.27	702.85	2.09	770.95	2.09
KSK	505	3221	2.39	768.94	The state of the s	591.01	5.38	1,402.35	5.38
TRN Energy	150	978	2.06	The state of the s	2.94	947.15	5.33	1,716.08	5.33
Karcham-	200	1131	2.00	201.23	1.53	149.11	3.58	350.34	3.58
Wangtoo	11 7.75	****	30		4.47	505.10	4.47	505.10	4.47
VISHNUPRAYAG	352	2296	0.82	188.12		220000000000000000000000000000000000000			
TEHRI STAGE-I	418	2786	3.14	The second secon	1.57	360.74	2.39	548.86	2.39
Rosa Power	600	4066	1.91	875.80	3.09	861.26	6.24	1,737.06	6.24
Project	000	4000	1.91	775.30	3.54	1,437.30	5.44	2,212.60	5.44
Rosa Power Project	600	4066	1.91	775.30	3.54	1,438.98	5.45	2,214.28	5.45
Bara	1782	12572	1.82	2,281.91	2.69	3,384.58	4.54		
Anpara 'C'	1100	7453	1.00	745.31	3.24	2,415.47	4.51	5,666.49	4.51
IGSTPP, Jhajhjhar	51	368	2.80	102.75	4.70	172.87	7.50	3,160.78 275.62	7.50
Bajaj Hindusthan	450	2982	2.53	754.79	4.73	1,411.89	7.27	2,166.68	7.27
Lalitpur	1782	12274	2.24	2.751.00	2.24				
RKM Powergen	350	2424	2.60	2,751.80	3.21	3,938.89	5.45	6,690.69	5.45
Teesta	200	967	2.49	629.93	1.66	402.13	4.26	1,032.06	4.26
NTPC Meja	916	6343	2.49	240.58	2.49	240.58	4.98	481.17	4.98
Total	11191	74863	2.32	1,473.79	2.39	1,517.27	4.72	2,991.06	4.72
		, 4003		14549		21478		36027	4.81

The assumptions considered while projecting the power purchase from IPP's and Joint Ventures (JV's) is given in table below:

ASSUMPTIONS FOR POWER PURCHASE FROM IPPS / JVs -

Assumption
Net Power Purchase Quantum is derived as a product of respective power plants MW capacity, capacity factor and UP state's share in respective power plant.
Fixed and Variable Charges have been considered as per the

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Two part)	recent energy bills raised for the period FY 2015-16 and 2016-
	Further the escalation factor has been considered @ 4%.

The Petitioner has signed PPAs under Case-1 bidding from various generators and traders such as PTC India Limited (TRN Energy & MB Power), Lanco Babandh, KSK Energy. The scheduled date of supply was 1.10.2016. However, early supply from PTC India (MB Power) and KSK Energy has already commenced from August and October 2015 respectively. Accordingly, the projected power purchase from such generators have been projected at the yearly tariff streams quoted by such generators in the Case-1 bids.

The summary of power purchased from Co-generating stations for the $1^{\rm st}$ Control Period is provided in table given below:

POWER PURCHASE COST: STATE CO-GENERATION FACILITIES FOR FY 2017-18

		Fixed	Cost	Variable Cost		Cost Total Cos		Average Cost
Source of Power	MU	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)
Captive and Cogen	3412			5.18	1,765.95	5.18	1,765.95	5.18

POWER PURCHASE COST: STATE CO-GENERATION FACILITIES FOR FY 2018-19

Source of Power	ми	Fixed	Cost	Varia	ble Cost	Tot	Average Cost	
		(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)
Captive and Cogen	3412		2007/05/2010	5.38	1,836.59	5.38	1,836.59	5.38

POWER PURCHASE COST: STATE CO-GENERATION FACILITIES FOR FY 2019-20

Source of Power		Fixed Cost		Varia	ble Cost	Tot	Average	
	MU	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)
Captive and Cogen	3412	-10101000000	1-4617	5.60	1,910.05	5.60	1,910.05	5.60

The summary of power purchase from bilateral and other sources for the 1^{st} Control period is provided in the given below:

POWER PURCHASE COST: OTHER SOURCES FY 2017-18

Source of Power	MU	Fixed Cost		Varia	able Cost	Tot	Average	
	MO	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)
Inter system exchange (Bilateral & PXIL) / UI	2507			3.80	952.57	3.80	952.57	3.80
Renewable Energy	553			6.46	357.56	6.46	357.56	6.46
NVVN Coal Power	352			5.12	180.04	5.12	180.04	5.12
Total	3412			4.37	1490	4.37	1490	4.37

POWER PURCHASE COST: OTHER SOURCES FY 2018-19

Source of Power	ми	Fixed Cost		Varia	ble Cost	Tot	Average	
		(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)
Inter system exchange (Bilateral & PXIL) / UI	6579			4.00	2,631.65	4.00	2,631.65	4.00
Renewable Energy	1999			5.04	1,007.99	5.04	1,007.99	5.04
NVVN Coal Power	352			5.33	187.24	5.33	187.24	5.33
Total	8929			4.29	3827	4.29	3827	4.29

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POWER PURCHASE COST: OTHER SOURCES FY 2019-20

Source of Power	ми	Fixed Cost		Varia	ble Cost	Tot	Average Cost			
		(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)		
Inter system exchange (Bilateral & PXIL) / UI	15727			4.20	6,605.46	4.20	6,605.46	4.20		
Renewable Energy	3641			4.80	1,747.11	4.80	1,747.11	4.80		
NVVN Coal Power	352			5.54	194.73	5.54	194.73	5.54		
Total	19720			4.33	8547	4.33	8547	4.33		

SUMMARY OF POWER PURCHASE

The total power purchase quantum available in megawatt (MW) terms from State owned generating stations, central generating stations and other sources along with the quantum and cost for the $1^{\rm st}$ Control period is presented in the table below:

SUMMARY OF POWER PURCHASE COST FY 2017-18

Source of	MW	MU	Fix	ed Cost	Varia	ble Cost	Tot	tal Cost	Averag
Power	Available		(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)
Procuremen	nt of power f	rom State	Sector Ge	enerating					
Thermal S		adons							
Anpara A	630	3,535	0.79	280	2.52	000	2.25		2000
Anpara B	1,000	7,304	0.67	490	2.57	909	3.36	1,188	3.36
Harduagunj	105	370	2.35	87	2.08	1,519	2.75	2,008	2.75
Obra A	194	306	1.76	54	3.80	141	6.15	228	6.15
Obra B	1,000	3,560	0.69	247	2.45	75	4.21	129	4.21
Panki	210	747	1.63	122	2.35	837	3.05	1,084	3.05
Parichha	220	430	1.06	45	3.80	284	5.43	405	5.43
Parichha Extn.	420	2,411	1.35	324	3.80	163 916	4.86	209	4.86
Parichha Extn.	500	3,189	1.81	577	3.80		5.15	1,240	5.15
Stage II	-	3,203	1.01	3//	3,00	1,212	5.61	1,789	5,61
Harduaganj Ext.	500	3,189	1.97	627	3.80	1,212	5.77	1.020	5.33
Anpara D	1,000	5,779	2.23	1,288	2.33	1,348		1,839	5.77
Sub total -	5779	30819	2.25	4141	2.33		4.56	2,636	4.56
Thermal		55025		4141		8615		12757	4.14
Per unit Avg	Rate of Ther	mal Gene	ration			-	-		
Hydro								4.14	
Stations									
Khara	58	217	0.81	18			0.01	10	0.01
Matatila	20	81	0.75	6			0.81	18	0.81
Obra (Hydel)	99	217	0.70	15			0.75	6	0.75
Rihand	255	469	0.64	30			0.70	15	0.70
UGC Power	14	22	2.39	5			0.64	30	0.64
Stations	- 50	.555	6,02	~			2.39	5	2.39
Belka & Babail	6	2	2.25	0			2.25	0	2.25
Sheetla	4	2	2.84	1			2.84	1	2.84
Sub total - Hydro	455	1009		75.07		0.00		75.07	0.74
Purchase P	er unit Avg F	Rate from	hydro gen	erating					
Sub-Total Own	6234	31828		4,216.56		8,615.08		12,831.64	4.03
generation									
Procurement	of power fro	m Central	Sector G	enerating					W=-89 to
	The state of the s	ations						New York Comment	
Anta	119	254	2.44	62	2.84	72	5.27	134	5.27
Auriya	244	310	2.96	92	3.40	105	6.36	197	6.36
Dadri Thermal	84	536	0.94	50	3.54	190	4.48	240	4.48
Dadri Gas	272	970	1.12	109	2.75	267	3.88	376	3.88
Dadri Extension	135	838	1.81	152	3.28	275	5.09	426	5.09
Rihand-I	360	2,394	0.88	211	1.85	444	2.74	655	2.74
Rihand-II	333	2,655	0.78	206	1.68	447	2.46	653	2.46
Singrauli	822	6,031	0.59	354	1.71	1,032	2.30	1,385	2.30
Tanda	440	2,985	1.19	355	3.34	996	4.52	1,350	4.52
Unchahar-I Unchahar-II	255	1,670	0.89	148	3.07	513	3.96	661	3,96
	146	1,142	0.77	88	3.09	352	3.86	441	3.86
Jnchahar-III	72	570	1.18	67	3.36	192	4.54	259	4.54
Farakka	35	242	0.86	21	2.77	67	3.63	88	3.63
Kahalgaon St. I	77	553	0.97	54	2.60	144	3.58	198	3.58
Kahalgaon St.II Ph.I	252	1,851	1.09	202	2.33	432	3.43	634	3.43
(oldam (Hydro)	101	699	4.29	300	2.21	155	6.51	AFF	6.51
Rihand-III	361	2,823	1.36	385	1.72	486	3.08	455 871	6.51 3.08
Sub-Total	4109	26523		2856	200	6167		9023	3.40

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Source of	MW		Fix	ed Cost	Varia	ble Cost	Tot	al Cost	Average
Power	Available	MU	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)
NTPC									
Chamera	109	434	0.94	41	1.27	55	2.21	96	2.21
Chamera-II	86	401	1.27	51	1.38	55	2.65	106	2.65
Chamera-III	62	240	2.55	61	2.42	58	4.97	119	4.97
Dhauliganga	75	246	1.74	43	2.48	61	4.22	104	4.22
Salal I&II	48	225	0.64	14	1.82	41	2.46	55	2.46
Tanakpur	21	63	2.55	16	2.52	16	5.06	32	5.06
Uri	96	548	0.88	48	1.47	81	2.35	129	2.35
Dulhasti	111	628	2.74	172	3.48	218	6.22	390	6.22
Sewa-II	35	134	3.00	40	2.45	33	5.45	73	5.45
Uri-II	60	371	2.74	102	4.06	150	6.80	252	6.80
Parbati ST-III	140	180	2.32	42	2.87	52	5.19	93	5.19
Kishanganga HEP	64	277	2,50	69	2.40	66	4.90	136	4.90
Sub-Total NHPC	908	3746		699		886		1585	4.23
NAPP	166	1,148		-	2.75	316	2.75	316	2.75
RAPP #3&4	80	543		-	3.20	174	3.20	174	3.20
RAPP#5&6	115	715	-	-	3.86	276	3.86	276	3.86
Sub-Total NPCIL	361	2407			i let	766.63		766.63	3.19
Nathpa jhakri HPS	287	1,498	1.63	245	1.46	219	3.10	464	3.10
Rampur	96	375	2.03	76	1.75	66	3.78	142	3.78
Tala power	45	158	-	-	2.11	33	2.11	33	2.11
Koteshwar	173	569	2.03	116	1.97	112	4.01	228	4.01
Srinagar	290	1,135	3.25	369	2.59	294	5.84	663	5.84
Sasan	495	3,686	0.17	63	1.76	650	1.93	713	1.93
MB Power	350	2,453	2.88	706	2.10	514	4.98	1,220	4.98
KSK	505	2,415	2.21	533	2.72	657	4.93	1,190	4.93
TRN Energy	150	489	1.90	93	1.41	69	3.31	162	3.31
Karcham- Wangtoo	200	870	-	-	4.13	359	4.13	359	4.13
VISHNUPRAYAG	352	2,082	0.76	158	1.45	302	2.21	460	2.21
TEHRI STAGE-I	418	1,447	2.91	421	2.86	414	5.77	834	5.77
Rosa Power Project	600	4,066	1.76	717	3.27	1,329	5.03	2,046	5.03
Rosa Power Project	600	4,066	1.76	717	3.27	1,330	5.04	2,047	5.04
Bara	1,782	9,910	1.68	1,663	2.49	2,467	4.17	4,130	4.17
Anpara 'C'	1,100	7,453	0.92	689	3.00	2,233	3.92	2,922	3.92
IGSTPP, Ihajhjhar	51	266	2.58	69	4.35	116	6.93	184	6.93
Bajaj Hindusthan	450	2,456	2.84	698	4.38	1,075	7.22	1,773	7.22
Lalitpur	1,782	9,386	2.07	1,946	2.97	2,785	5.04	4,730	5.04
RKM Powergen	350	1,996	2.40	480	1,53	306	3.94	786	3.94
Teesta	200	806	2.30	185	2.30	185	4.60	371	4.60
Sub-Total IPP/JV	10275	57580		9942		15515		25457	4.42
Captive and Cogen	-	3,412			5.18	1,766	5.18	1,766	5.18
Inter system exchange (Bilateral & PXIL, IEX) / UI		2,507	-	-	3.80	953	3.80	953	3.80
Renewable Energy	-	553		-	6.46	358	6.46	358	6.46
NVVN Coal Power	-	352			5.12	180	5.12	180	5.12
Sub-Total : Co-Generation & Other Sources		6824				3,256.12		3,256.12	4.77
Grand Total of Power Purchase	21887	128908	1.37	17,712.80	2.73	35,206.2	4.11	52,919.02	4.11

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SUMMARY OF POWER PURCHASE COST FY 2018-19

Source of	MW	MU	1	ed Cost	Vari	able Cost	То	tal Cost	Averag
Power	Available	10002	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)
Procuremen	t of power fr	om State :	Sector Gen	erating					Kviny
Thermal Stations									
Anpara A	630	4,292	0.79	340	2.67	1,148	3.46	1,487	3,46
Anpara B	1,000	7,055	0.69	486	2.16	1,526	2.85	2,011	2.85
Harduagunj	105	535	2.43	130	3.95	211	6.38	342	6.38
Obra A	94	519	3.76	195	2.55	132	6.30	327	6.30
Obra B	1,000	6,328	0.72	454	2.45	1,548	3.16	2,002	3.16
Panki	105	581	3.37	196	3.95	230	7.32	425	7.32
Parichha	220	1,291	1.08	139	3.95	510	5.03	650	5.03
Parichha Extn.	420	2,846	1.34	382	3.95	1,125	5.29	1,507	5.29
Parichha Extn. Stage II	500	3,388	1.79	607	3.95	1,339	5.74	1,946	5.74
Harduaganj Ext.	500	3,388	1.94	659	3.95	1,339	5.90	1,998	F 00
Anpara D	1,000	7,018	2.23	1,568	2.43	1,702	4.66	3,270	5.90
Sub total - Thermal	5574	37240		5155		10809	4.00	15964	4.66 4.29
Per unit Avg Ger	Rate of The	rmal						4.29	
Hydro Stations	State of the last		The U.S.				-		
Khara	58	217	0.85	18	-		0.05	40	
Matatila	20	81	0.78	6			0.85	18	0.85
Obra (Hydel)	99	217	0.73	16			0.78	6	0.78
Rihand	255	469	0.66	31			0.73	16	0.73
UGC Power	14	22	2.49	5			0.66	31	0.66
Stations Belka & Babail	6	2	2.25	0			2,49	5	2.49
Sheetla	4	2	2.95	1			2.25	0	2.25
Sub total - Hydro	455	1009	2.55	78.05		0.00	2.95	78.05	2,95 0.77
Purchase Per un	it Avg Rate f	rom hydro	generatio	n stations					
Sub-Total Own generation	6029	38250	generatii	5,232.65		10,809.37		0.77 16,042.02	4.19
Procurement of	of power from	m Central :	Sector Ger	erating					
Anta	119	tions							
Auriya	244	304	0.75	64	2.98	91	3.72	155	5.09
Dadri Thermal	84	414 536	0.54	96	3.57	148	4.11	243	5.87
Dadri Gas	272	1,039	0.94	52	3.68	197	4.62	249	4.66
Dadri Extension	135	860	1.77	113 158	2.89	301	3.47	414	3.98
Rihand-I	360	2,451	0.92	220	3.41	293	5.18	451	5.24
Rihand-II	333	2,655	0.97	215	1.93	472	2.84	692	2.82
Singrauli	822	6,031	0.68	368	The state of the s	464	2.72	679	2.56
Tanda	440	2,985	1.31	369	1.78	1,073	2.46	1,441	2.39
Unchahar-I	255	1,670	0.91	154	3.47	1,035	4.78	1,404	4.71
Unchahar-II	146	1,142	0.95	92	3.19	533	4.10	687	4.12
Unchahar-III	72	570	1.48	70		367	4.16	458	4.01
P	35	242	0.92	22	3.50	199	4.97	269	4.72
Farakka	77	553	1.10	56	2.88	70	3.80	91	3.78
Kahalgaon St. I	//			210	2.43	150 449	3.81	206 660	3.72 3.56
Kahalgaon St. I Kahalgaon St.II Ph.I	252	1,851	1.26				1,000,000,000	7.0000 SV	
Kahalgaon St. I Kahalgaon St.II Ph.I Koldam (Hydro)		1,851			2.30	161	2.04		
Kahalgaon St. I Kahalgaon St.II Ph.I	252	5-710-7014 2-1	1.56 1.67	312 400	2.30 1.79	161 505	3.86 3.46	473 906	6.77 3.21
Kahalgaon St. I Kahalgaon St.II Ph.I Koldam (Hydro) Rihand-III Uchchahar-IV	252 101 361 117	699	1.56	312 400	1.79	505	3.46	906	6.77 3.21
Kahalgaon St. I Kahalgaon St.II Ph.I Koldam (Hydro) Rihand-III Uchchahar-IV Sub-Total NTPC	252 101 361	699 2,823	1.56 1.67	312 400 93		505 219		906	6.77 3.21 4.97
Kahalgaon St. I Kahalgaon St.II Ph.I Koldam (Hydro) Rihand-III Uchchahar-IV Sub-Total NTPC	252 101 361 117	699 2,823 626	1.56 1.67	312 400 93 3063	3.50	505 219 6727	3.46 4.97	906 312 9790	6.77 3.21 4.97 3.57
Kahalgaon St. I Kahalgaon St.II Ph.I Koldam (Hydro) Rihand-III Uchchahar-IV Sub-Total NTPC Chamera Chamera-II	252 101 361 117 4226	699 2,823 626 27452	1.56 1.67 1.48	312 400 93 3063 42	1.79 3.50 1.32	505 219 6727 57	3.46 4.97 2.30	906 312 9790 100	6.77 3.21 4.97 3.57 2.30
Kahalgaon St. I Kahalgaon St.II Ph.I Koldam (Hydro) Rihand-III Uchchahar-IV Sub-Total NTPC	252 101 361 117 4226 109	699 2,823 626 27452 434	1.56 1.67	312 400 93 3063	3.50	505 219 6727	3.46 4.97	906 312 9790	6.77 3.21 4.97 3.57

मुख्य अभियक्ता (स्तर-I) केस्को, कानपुर

Source of	MW		Fix	ed Cost	Varia	able Cost	To	tal Cost	Average
Power	Available	MU	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)
Salal I&II	48	225	0.66	15	1.89	43	2.55	57	2.55
Tanakpur	21	63	2.65	17	2.62	16	5.27	33	5.27
Uri	96	548	0.91	50	1.53	84	2.44	134	2.44
Dulhasti	111	628	2.85	179	3.62	227	6.47	406	6.47
Sewa-II	35	134	3.12	42	2.55	34	5.67	76	5.67
Uri-II	60	371	2.85	106	4.22	156	7.07	262	7.07
							7.07	202	7.07
Parbati ST-III	140	180	2.42	43	2.98	54	5.40	97	5.40
Kishanganga HEP	64	277	2.45	68	2.60	72	5.05	140	5.05
Parbati II	155	671	2.45	164	2.60	174	5.05	339	5.05
Sub-Total NHPC	1063	4417		887		1099		1986	4.50
NAPP	166	1,148	-	-	2.86	329	2.86	329	2.86
RAPP #384	80	543			3.33	181	3.33	181	3.33
RAPP#5&6	115	765			4.02	307	4.02	307	4.02
2/12/12/12	100000				1.02		4.02	307	4.02
Sub-Total NPCIL	361	2456				817.30		817.30	3.33
NATHPA JHAKRI HPS	287	1,498	1.70	255	1.52	228	3.22	482	3.22
RAMPUR	96	416	2.11	88	1.82	76	3.93	164	3.93
TALA POWER	45	197		-	2.19	43	2.19	43	2.19
Koteshwar	173	749	2.11	158	2.05	154	4.17	312	4.17
Srinagar	290	1,261	3.38	426	2.69	339	6.07	766	6.07
Sasan	495	3,686	0.18	65	1.83	676	2.01	741	The second section is the second
MB Power	350	2,606	2.99	780	100 to 10		The second secon		2.01
KSK	505	3,221	2.30	739	2.18	568	5.17	1,348	5.17
TRN Energy	150	855	1.98		2.83	911	5.12	1,650	5.12
Karcham-	200		1.90	169	1.47	125	3.45	295	3.45
Wangtoo	2230	870	-	_	4.29	374	4.29	374	4.29
VISHNUPRAYAG	352	2,082	0.79	164	1.51	314	2.30	478	2.30
TEHRI STAGE-I	418	1,809	3.02	547	2.97	538	6.00	1,085	6.00
Rosa Power Project	600	4,066	1.83	745	3.40	1,382	5.23	2,127	5.23
Rosa Power Project	600	4,066	1.83	745	3.40	1,384	5.24	2,129	5.24
Bara	1,782	12,572	1.75	2,194	2.59	3,254	4.33	5,449	4.33
Anpara 'C'	1,100	7,453	0.96	717	3.12	2,323	4.08	3,039	4.08
IGSTPP, Jhajhjhar	51	368	2.69	99	4.52	166	7.21	265	7.21
Bajaj Hindusthan	450	2,982	2.43	726	4.55	1,358	6.99	2,083	6.00
Lalitpur	1,782	12,274	2.16	2,646	3.09	3,787	5.24	6,433	6.99
RKM Powergen	350	2,424	2.50	606	1.60	387	4.09	992	5.24
Teesta	200	967	2.39	231	2.39	231	4.78		4.09
NTPC Meja	458	2,239	2.23	500	2.30	515		463	4.78
Sub-Total IPP/JV	10733	68660		12601	2.30	19133	4.53	1,015 31734	4.53 4.62
Captive and Cogen		3,412		-	5.38	1,837	5.38	1,837	5.38
Inter system exchange (Bilateral & PXIL,	-	6,579	-	-	4.00	2,632	4.00	2,632	4.00
IEX) / UI Renewable		20000000			A Second 1		200000	9/9/2007	21145557(//
Energy		1,999			5.04	1,008	5.04	1,008	5.04
NVVN Coal Power		352	-	-	5.33	187	5,33	187	5.33
Sub-Total : Co- Generation & Other Sources	-	12342				5,663.47		5,663.47	4.59
Grand Total of Power Purchase	22412	153577	1.42	21,783.74	2.88	44,249.5	4.30	66,033.27	4.30

मुख्य अभियन्ता (स्तर-1) केस्को, पुरुष्

SUMMARY OF POWER PURCHASE COST FY 2019-20

Source of	MW	ми	Fixe	ed Cost	Vari	able Cost	Tot	al Cost	Averag
Power	Available		(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. /
Procuremen	nt of power for	rom Stat	e Sector G	enerating					
Thermal S	tations								
Anpara A	630	4,292	0.82	353	2.78	1,194	3.60	1,547	3.60
Anpara B	1,000	7,055	0.72	505	2.25	1,587	2.97	2,092	2.97
Harduagunj	105	535	2.53	135	4.11	220	6.64	355	6.64
Obra A	94	519	3.91	203	2.65	137	6.55	340	6.55
Obra B	1,000	6,328	0.75	472	2.54	1,610	3.29	2,082	3.29
Panki	105	581	3.51	204	4.11	239	7.62	442	41.00
Parichha	220	1,291	1.12	145	4.11	531	5.23	676	7.62 5.23
Parichha Extn.	420	2,846	1.40	397	4.11	1,170	5.51	1,567	5.51
Parichha Extn.	500	3,388	1.86	631	4.11	1,392			
Stage II		200	SESSES	100000000000000000000000000000000000000	215000	180	5.97	2,024	5.97
Harduaganj Ext.	500	3,388	2.02	685	4.11	1,392	6.13	2,077	6.13
Anpara D	1,000	7,018	2,32	1,631	2.52	1,770	4.85	3,401	4.85
Sub total - Thermal	5574	3724 0		5361		11242		16603	4.46
	Rate of The	rmal						4.46	
Hydro	reracion			THE REAL PROPERTY.			War in the		
Stations	FO	242	0.00				and the same of the same of	100	-
Khara	58	217	0.88	19			0.88	19	0.88
Matatila	20	81	0.81	7			0.81	7	0.81
Obra (Hydel)	99	217	0.76	16			0.76	16	0.76
Rihand	255	469	0.69	32		Carlo Harrison	0.69	32	0.69
UGC Power Stations	14	22	2.59	6			2.59	6	2.59
Belka & Babail	6	2	2.34	0			2.34	0	2.34
Sheetla	4	2	3.07	1			3.07	1	3.07
Sub total - Hydro	455	1009		81.17		0.00	3107	81.17	0.80
	er unit Avg F		n hydro ger	nerating				0.80	
Sub-Total	6029	ations							
Own	0029	3825 0		5,441.96		11,241.75		16,683.70	4.36
generation Procurement	of nower fro	m Centr	al Costor C						
Procurement		ations	ar Sector G	enerating					
Anta	119	304	0.78	67	3.13	95	3.90	162	5.33
Auriya	244	414	0.57	99	3.74	155	4.31	254	6.15
Dadri Thermal	84	536	0.98	54	3.83	205	4.81	259	4.84
Dadri Gas	272	1,039	0.60	118	3.04	316	3.64	434	
Dadri Extension	135	860	1.84	164	3.54	305	5.38	469	4.17 5.45
Rihand-I	360	2,451	0.95	228	2.00	491	2.96	720	2.94
Rihand-II	333	2,655	1.01	223	1.82	483	2.83	706	2.66
Singrauli	822	6,031	0.70	383	1.85	1,116	2.55	1,498	
Tanda	440	2,985	1.36	384	3.61	1,077	4.97	1,498	2.48
Jnchahar-I	255	1,670	0.95	160	3.32	555	4.27	715	4.89
Jnchahar-II	146	1,142	0.98	95	3.34	381	4.27	476	4.28
Unchahar-III	72	570	1.54	73	3.64	207	5.17	280	4.17
Farakka	35	242	0.95	23	3.00	73	3.95	95	4.91
Kahalgaon St. I	77	553	1.14	58	2.82	156	3.96	214	3.93
Kahalgaon St.II Ph.I	252	1,851	1.31	219	2.52	467	3.83	686	3.87
Koldam (Hydro)	101	699	1.56	324	2.20	457			
Rihand-III	361	2,823	1.74	The second secon	2.39	167	3.95	492	7.04
Tanda Stage-II	155	830	1.36	416 113	1.86	526	3.60	942	3.34
Uchchahar-IV	117	819			3.61	299	4.97	412	4.97
Sub-Total	4381	2847	1.55	127	3.67	301	5.22	428	5.22
NTPC		4		3329		7374		10703	3.76
	109	434	1.02	44	1.38	60	2.39	104	2.39
Chamera	0.0.0					VV.	Secretary of	1.1.794	2.39
Chamera Chamera-II	86	400	1.37	55		60			
Chamera		400 240	1.37 2.76	55 66	1.49 2.61	60 63	2.87 5.38	115 129	2.87 5.38

केस्को, कानपुर

Source of	MW	MU	A 1875	ed Cost		iable Cost	Tot	tal Cost	Averag
Power	Available		(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)
Salal I&II	48	225	0.69	15	1.97	44	2.66	60	2.66
Tanakpur	21	63	2.76	17	2,72	17	5.48	34	5.48
Uri	96	548	0.95	52	1.59	87	2.54	139	2.54
Dulhasti	111	626	2.97	186	3.76	236	6.73	422	6.73
Sewa-II	35	133	3.25	43	2.65	35	5.90	79	5.90
Uri-II	51	314	3.50	110	4.39	138	7.88	248	7.88
5 1 1 5 5 5 5 5							1	2.10	7.00
Parbati ST-III	104	134	3.38	45	3.10	42	6.48	87	6.48
Tapovan Vishnu Gad	101	262	2.45	64	2.60	68	5.05	132	5.05
Kishanganga HEP	64	277	2.45	71	2.70	75	5.15	145	5.25
Vishnugarh Pipalkoti	166	431	2.45	106	2.60	112	5.05	218	5.05
Parbati II	155	671	2.45	171	2.70	181	5.15	352	F 25
Kameng	55	143	2.45	35	2.60	37	5.05	72	5.25
Sub-Total NHPC	1339	5146		1127		1320	5.05	2448	5.05 4.76
NAPP	166	1,148	-	-	2.98	342	2.98	242	2.01
RAPP #3&4	80	543	- 1		3.47	188		342	2.98
RAPP#5&6	115	765	-		4.18	320	3.47	188	3.47
RAPP#7&8	162	634		-	4.18		4.18	320	4.18
Sub-Total NPCIL	523	3090			4.10	265 1115	4.18	265 1115	4.18 3.61
NATHPA JHAKRI HPS	287	1,498	1.77	265	1.58	237	3.35	502	3.35
RAMPUR	96	499	2.20	110	1.89	95			
TALA POWER	45	236	-	-	2.28	54	4.09	204	4.09
Koteshwar	173	898	2.20	198			2.28	54	2.28
Srinagar	290	1,514	3.51	532	2.14	192	4.33	389	4.33
Sasan	495	3,686	0.18	68		424	6.31	955	6.31
MB Power	350	2,606	3.11	811	1.91	703	2.09	771	2.09
KSK	505	3,221	2.39	769	2.27	591	5.38	1,402	5.38
TRN Energy	150	978	2.06	201	2.94	947	5.33	1,716	5.33
Karcham-	200	1,131	2.00	201	1.53	149	3.58	350	3.58
Wangtoo VISHNUPRAYAG	352	2,296			4.47	505	4.47	505	4.47
TEHRI STAGE-I	418	2,786	0.82 3.14	188	1.57	361	2.39	549	2.39
Rosa Power	600	4,066	The state of the s	876	3.09	861	6.24	1,737	6.24
Project Rosa Power	600	4,066	1.91	775	3.54	1,437	5.44	2,213	5.44
Project Bara	1,782	12,57	1.91	775	3.54	1,439	5.45	2,214	5.45
Anpara 'C'	1,100	2	1.82	2,282	2.69	3,385	4.51	5,666	4.51
GSTPP,	51	7,453	1.00	745	3.24	2,415	4.24	3,161	4.24
lhajhjhar Bajaj	450		2.80	103	4.70	173	7.50	276	7.50
dindusthan alitpur		2,982	2.53	755	4.73	1,412	7.27	2,167	7.27
RKM Powergen	1,782	12,27	2.24	2,752	3.21	3,939	5.45	6,691	5.45
eesta	350	2,424	2.60	630	1.66	402	4.26	1,032	4.26
ITPC Meja	200	967	2.49	241	2.49	241	4.98	481	4.98
Sub-Total	916	6,343	2.32	1,474	2.39	1,517	4.72	2,991	4.72
PP/JV	11191	7486		14549		21478		36027	4.81
aptive and logen	-	3,412	-	-	5.60	1,910	5.60	1,910	5.60
nter system xchange Bilateral & XIL, IEX) / UI	•	7	2	-	4.20	6,605	4.20	6,605	4.20
enewable nergy	-	3,641	-	-	4.80	1,747	4.80	1,747	4.80
VVN Coal ower		352	-	-	5.54	195	5.54	195	5.54
ub-Total:		2313			1707111111111111	10,457.35			

मुख्य आभयश्वा (स्तर्ा) केस्को, कामपुर

Source of Power	MW Available	MU		ed Cost	Vari	able Cost	Tot	tal Cost	Average
1000000000	Available		(Rs. / kWh)	(Rs. Cr.)	(Rs. / kWh)	(Rs. Cr.)	(Rs. /	(Rs. Cr.)	Cost (Rs. /
Co-Generation & Other Sources		2			KWII)		kWh)	(RSI CITY	kWh)
Grand Total of Power Purchase	23463	1729 55	1.41	24,447.13	3.06	52,986.3	4.48	77,433.42	4.48

MERIT ORDER DISPATCH

Merit Order Dispatch after evaluating the power purchase cost is given in the table below:

MERIT ORDER DISPATCH FOR FY 2017-18

S.No	Source of Power Khara	Туре	Dispatch Mode	Variable Charge (Rs / kWh)	Power Procurement (MU)	Cumulative Procurement (MU)
2	Matatila	State-Hydro	Must-Run	0.00	217	
3		State-Hydro	Must-Run	0.00	81	217
4	Obra (Hydel) Rihand	State-Hydro	Must-Run	0.00	217	298
5		State-Hydro	Must-Run	0.00	469	514
6	UGC Power Stations	State-Hydro	Must-Run	0.00	22	983
7	Belka & Babail Sheetla	State-Hydro	Must-Run	0.00	2	1005
8	Chamera	State-Hydro	Must-Run	0.00	2	1007
9	Chamera-II	Central	Merit	1.27	434	1009
10	VISHNUPRAYAG	Central	Merit	1,38	401	1444
11		IPP	Merit	1.45	2082	1844
12	NATHPA JHAKRI HPS Uri	IPP	Merit	1.46	1498	3926
13	RKM Powergen	Central	Merit	1.47	548	5425
14	Rihand-II	IPP	Merit	1.53	1996	5973
15		Central	Merit	1.68	2655	7969
16	Singrauli Rihand-III	Central	Merit	1.71	6031	10624
17	RAMPUR	Central	Merit	1.72	The second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the section of the second section of the section of th	16655
18	Sasan	IPP	Merit	1.75	2823	19478
19	KSK	IPP	Merit	1.76	375	19853
20	The state of the s	IPP	Merit	1.76	3686	23538
21	Salal I&II	Central	Merit	1.82	2415	25954
22	Rihand-I	Central	Merit	1.85	225	26179
23	Koteshwar	IPP	Merit	1.97	2394	28572
24	Anpara B	State-Thermal	Merit	2.08	569	29141
25	TRN Energy	IPP	Merit	2.10	7304	36445
26	TALA POWER	IPP	Merit	2.11	489	36934
27	Koldam (Hydro) Teesta	Central	Merit	2.21	158	37092
28	Anpara D	IPP	Merit	2.30	699	37790
29		State-Thermal	Merit	2.33	806	38596
30	Kahalgaon St.II Ph.I Obra B	Central	Merit	2.33	5779	44376
31		State-Thermal	Merit	2.35	1851	46226
32	Kishanganga HEP	Central	Merit	2.40	3560	49786
33	Chamera-III Obra A	Central	Merit	2.42	277	50063
34	Sewa-II	State-Thermal	Merit	2.45	240	50303
35		Central	Merit	2.45	306	50609
36	Dhauliganga	Central	Merit	2.48	134	50743
37	Bara	IPP	Merit	2.49	246	50989
38	Tanakpur	Central	Merit	2.52	9910	60899
19	Anpara A MB Power	State-Thermal	Merit	2.57	63	60962
10	Srinagar Srinagar	IPP	Merit	2.59	3535	64497
1		IPP	Merit	2.59	2453	66949
2	Kahalgaon St. I	Central	Merit	2.60	1135	68085
3	Dadri Gas NAPP	Central	Merit	2.75	553	68638
4	Farakka	Central	Merit	2.75	970	69608
5	Anta	Central	Merit	2.77	1148	70756
6	TEHRI STAGE-I	Central	Merit	2.84	242	70998
7	Parhati ST III	IPP	Merit	2.86	254	71252
8	Parbati ST-III	Central	Merit	2.87	1447	72699
	Lalitpur Anpara 'C'	IPP	Merit	2.97	180 9386	72879
9						82264

S.No.	Source of Power	Туре	Dispatch Mode	Variable Charge (Rs / kWh)	Power Procurement (MU)	Cumulative Procurement (MU)
	Unchahar-I	Central	Merit	3.07	1670	91388
51	Unchahar-II	Central	Merit	3.09	1142	92530
52	RAPP #384	Central	Merit	3.20	543	93074
53	Rosa Power Project	IPP	Merit	3.27	4066	97139
54	Rosa Power Project	IPP	Merit	3.27	4066	101205
55	Dadri Extension	Central	Merit	3.28	838	The state of the s
56	Tanda	Central	Merit	3.34	2985	102043
57	Unchahar-III	Central	Merit	3.36	570	105028
58	Auriya	Central	Merit	3.40	310	105598
59	Dulhasti	Central	Merit	3.48	628	105908
60	Dadri Thermal	Central	Merit	3.54	536	106536
61	Inter system exchange (Bilateral & PXIL, IEX) / UI	IPP	Merit	3.80	2507	107072
62	Harduaganj Ext.	State-Thermal	Merit	3.80	3189	(1.00 pt.)
63	Parichha Extn. Stage II	State-Thermal	Merit	3.80	The second second second	112767
64	Parichha Extn.	State-Thermal	Merit	3.80	3189	115956
65	Harduagunj	State-Thermal	Merit	3.80	2411	118367
66	Parichha	State-Thermal	Merit	3.80	370	118737
67	Panki	State-Thermal	Merit	3.80	430	119167
68	RAPP#5&6	Central	Merit	Total Services	747	119914
69	Uri-II	Central	Merit	3.86	715	120629
70	Karcham-Wangtoo	IPP	Merit	4.06	371	121000
71	IGSTPP, Jhajhjhar	IPP	Merit	4.13	870	121870
72	Bajaj Hindusthan	IPP	Merit	4.35	266	122135
73	NVVN Coal Power	IPP		4.38	2456	124591
74	Captive and Cogen	IPP	Merit	5.12	352	124943
75	Renewable Energy	IPP	Merit	5.18	3412	128355
		IPP	Must-Run	6.46	553	128908

MERIT ORDER DISPATCH FOR FY 2018-19

S.No.	Source of Power	Туре	Dispatch Mode	Variable Charge (Rs / kWh)	Power Procurement (MU)	Cumulative Procurement (MU)
2	Matatila	State-Hydro	Must-Run	0.00	217	217
3		State-Hydro	Must-Run	0.00	81	298
4	Obra (Hydel) Rihand	State-Hydro	Must-Run	0.00	217	514
5		State-Hydro	Must-Run	0.00	469	983
6	UGC Power Stations	State-Hydro	Must-Run	0.00	22	
7	Belka & Babail	State-Hydro	Must-Run	0.00	2	1005
	Sheetla	State-Hydro	Must-Run	0.00	2	1007
8	Chamera	Central	Merit	1.32	434	1009
10	Chamera-II	Central	Merit	1.44	401	1444
	VISHNUPRAYAG	IPP	Merit	1.51	2082	1844
11	NATHPA JHAKRI HPS	IPP	Merit	1.52	1498	3926
12	Uri	Central	Merit	1.53	548	5425
13	RKM Powergen	IPP	Merit	1.60	2424	5973
14	Rihand-II	Central	Merit	1.75	2655	8397
15	Singrauli	Central	Merit	1.78		11052
16	Rihand-III	Central	Merit	1.79	6031	17082
11	RAMPUR	IPP	Merit	1.82	2823	19906
17	Sasan	IPP	Merit	1.83	416	20322
	KSK	IPP	Merit	1.83	3686	24008
18	Salal I&II	Central	Merit	1.89	3221	27228
19	Rihand-I	Central	Merit	1.93	225	27453
20	Koteshwar	IPP	Merit		2451	29904
21	Anpara B	State-Thermal	Merit	2.05	749	30653
22	TRN Energy	IPP	Merit	2.16	7055	37708
23	TALA POWER	IPP	-	2.18	855	38564
24	NTPC Meja	IPP	Merit	2.19	197	38761
25	Koldam (Hydro)	Central	Merit	2.30	2239	40999
26	Teesta	IPP	Merit	2.30	699	41698
27	Anpara D	State-Thermal	Merit	2.39	967	42665
28	Kahalgaon St.II Ph.I	Central	Merit	2.43	7018	49683
29	Obra B	State-Thermal	Merit	2.43	1851	51534
		State-Mermai	Merit	2.45	6328	57862

मुख्य अभियन्ता (स्तर-1) केस्को, कानपुर

S.No.	Source of Power	Туре	Dispatch Mode	Variable Charge (Rs / kWh)	Power Procurement (MU)	Cumulative Procurement (MU)
	Chamera-III	Central	Merit	2.51	240	58102
31	Obra A	State-Thermal	Merit	2.55	519	58621
32	Sewa-II	Central	Merit	2.55	134	58755
33	Dhauliganga	Central	Merit	2.58	246	59001
34	Bara	IPP	Merit	2.59	12572	71573
35	Kishanganga HEP	Central	Merit	2.60	277	71850
36	Parbati II	Central	Merit	2.60	671	72521
37	Tanakpur	Central	Merit	2.62	63	72584
38	Anpara A	State-Thermal	Merit	2.67	4292	The second secon
	MB Power	IPP	Merit	2.69	2606	76876
39	Srinagar	IPP	Merit	2.69	1261	79482
40	Kahalgaon St. I	Central	Merit	2.71	553	80743
41	NAPP	Central	Merit	2.86	1148	81296
42	Farakka	Central	Merit	2.88	242	82445
43	Dadri Gas	Central	Merit	2.89	1039	82687
44	TEHRI STAGE-I	IPP	Merit	2.97	1809	83726
45	Anta	Central	Merit	2.98	304	85535
46	Parbati ST-III	Central	Merit	2.98	180	85839
47	Lalitpur	IPP	Merit	3.09	2.5.5	86019
48	Anpara 'C'	IPP	Merit	3.12	12274	98293
49	Unchahar-I	Central	Merit	3.19	7453	105746
50	Unchahar-II	Central	Merit	3.21	1670	107416
51	RAPP #3&4	Central	Merit	3.33	1142 543	108559
52	Rosa Power Project	IPP	Merit	3.40		109102
53	Rosa Power Project	IPP	Merit	3.40	4066	113167
54	Dadri Extension	Central	Merit	3.41	4066	117233
55	Tanda	Central	Merit	3.47	860	118093
56	Uchchahar-IV	Central	Merit	3.50	2985	121078
57	Unchahar-III	Central	Merit	3.50	626	121704
58	Auriya	Central	Merit	3.57	570	122274
59	Dulhasti	Central	Merit	3.62	414	122688
60	Dadri Thermal	Central	Merit	3.68	628 536	123316
61	Harduaganj Ext.	State-Thermal	Merit	3.95	The state of the s	123852
62	Parichha Extn. Stage II	State-Thermal	Merit	3.95	3388 3388	127240
63	Parichha Extn.	State-Thermal	Merit	3.95	The second secon	130627
64	Harduagunj	State-Thermal	Merit	3.95	2846	133473
65	Parichha	State-Thermal	Merit	3.95	535	134008
66	Panki	State-Thermal	Merit	3.95	1291	135299
67	Inter system exchange (Bilateral & PXIL, IEX) / UI	IPP	Merit	4.00	581 6579	135880 142459
	RAPP#5&6	Central	Merit	4.00		
	Uri-II	Central	Merit	4.02	765	143224
	Karcham-Wangtoo	IPP	Merit	4.22	371	143595
	IGSTPP, Jhajhjhar	IPP	Merit	4.52	870	144464
	Bajaj Hindusthan	IPP	Merit	4.55	368	144832
	Renewable Energy	IPP	Must-Run	5.04	2982	147814
	NVVN Coal Power	IPP	Merit	5.33	1999	149813
75	Captive and Cogen	IPP	Merit	5.38	352 3412	150164

MERIT ORDER DISPATCH FOR FY 2019-20

S.No.	Source of Power	Туре	Dispatch Mode	Variable Charge (Rs / kWh)	Power Procurement (MU)	Cumulative Procurement (MU)
2	Khara Matatila	State-Hydro	Must-Run	0.00	217	217
3		State-Hydro	Must-Run	0.00	81	298
4	Obra (Hydel)	State-Hydro	Must-Run	0.00	217	2.77
5	Rihand	State-Hydro	Must-Run	0.00	469	514
	UGC Power Stations	State-Hydro	Must-Run	0.00	The state of the s	983
6	Belka & Babail	State-Hydro	Must-Run	0.00	22	1005
7	Sheetla	State-Hydro	Must-Run		2	1007
8	Chamera		The second secon	0.00	2	1009
9	Chamera-II	Central	Merit	1.38	434	1444
10	VISHNUPRAYAG	Central	Merit	1.49	400	1843
	THEIRITATING	IPP	Merit	1.57	2296	4140

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S.No	Journe of Fower	Туре	Dispatch Mode	Variable Charge (Rs / kWh)	Power Procurement (MU)	Cumulative Procurement (MU)
11	NATHPA JHAKRI HPS	IPP	Merit	1.58	1498	5638
12	Uri	Central	Merit	1.59	548	6186
14	RKM Powergen Rihand-II	IPP	Merit	1.66	2424	8610
15	Singrauli	Central	Merit	1.82	2655	11265
16	Rihand-III	Central	Merit	1.85	6031	17295
17	RAMPUR	Central	Merit	1.86	2823	20119
18	Sasan	IPP	Merit	1.89	499	20618
19	KSK	IPP IPP	Merit	1.91	3686	24304
20	Salal I&II	Central	Merit	1.91	3221	27525
21	Rihand-I	Central	Merit	1.97	225	27749
22	Koteshwar	IPP	Merit Merit	2.00	2451	30201
23	Anpara B	State-Thermal	Merit	2.14	898	31099
24	TRN Energy	IPP	Merit	2.27	7055 978	38154
25	TALA POWER	IPP	Merit	2.28	236	39132
26	NTPC Meja	IPP	Merit	2.39	6343	39368
27	Koldam (Hydro)	Central	Merit	2.39	699	45711
28	Teesta	IPP	Merit	2.49	967	46410 47377
29 30	Anpara D	State-Thermal	Merit	2.52	7018	54395
31	Kahalgaon St.II Ph.I Obra B	Central	Merit	2.52	1851	56246
32	Vishnugarh Pipalkoti	State-Thermal	Merit	2.54	6328	62574
33	Kameng	Central	Merit	2.60	431	63005
34	Tapovan Vishnu Gad	Central	Merit	2.60	143	63148
35	Chamera-III	Central	Merit	2.60	262	63410
36	Obra A	Central State-Thermal	Merit	2,61	240	63650
37	Sewa-II	Central	Merit	2.65	519	64169
38	Dhauliganga	Central	Merit Merit	2.65	133	64302
39	Bara	IPP	Merit	2.69	245	64547
40	Kishanganga HEP	Central	Merit	2.70	12572	77120
41	Parbati II	Central	Merit	2.70	277 671	77397
42	Tanakpur	Central	Merit	2.72	63	78067
43	Anpara A MB Power	State-Thermal	Merit	2.78	4292	78130 82422
45	Srinagar	IPP	Merit	2.80	2606	85028
46	Kahalgaon St. I	IPP	Merit	2.80	1514	86542
47	NAPP	Central	Merit	2.82	553	87095
48	Farakka	Central	Merit	2.98	1148	88243
49	Dadri Gas	Central	Merit	3.00	242	88485
50	TEHRI STAGE-I	Central IPP	Merit	3.04	1039	89525
51	Parbati ST-III	Central	Merit	3.09	2786	92310
52	Anta	Central	Merit	3.10	134	92444
53	Lalitpur	IPP	Merit	3.13	304	92749
54	Anpara 'C'	IPP	Merit	3.24	12274	105022
55	Unchahar-I	Central	Merit	3.32	7453 1670	112476
56 57	Unchahar-II	Central	Merit	3.34	1142	114146
58	RAPP #3&4	Central	Merit	3.47	543	115288
59	Rosa Power Project Rosa Power Project	IPP	Merit	3.54	4066	115831 119897
60	Dadri Extension	IPP	Merit	3.54	4066	123962
61	Tanda Stage-II	Central	Merit	3.54	860	124822
52	Tanda	Central	Merit	3.61	830	125652
53	Unchahar-III	Central	Merit	3.61	2985	128637
54	Uchchahar-IV	Central	Merit	3.64	570	129207
55	Auriya	Central	Merit	3.67	819	130026
56	Dulhasti	Central Central	Merit	3.74	414	130440
57	Dadri Thermal	Central	Merit	3.76	626	131066
58	Harduaganj Ext.	State-Thermal	Merit Merit	3.83	536	131602
59	Parichha Extn. Stage II	State-Thermal	Merit	4.11	3388	134990
70	Parichha Extn.	State-Thermal	Merit	4.11	3388	138378
11	Harduagunj	State-Thermal	Merit	4.11	2846 535	141224
3	Parichha	State-Thermal	Merit	4.11	1291	141759
	Panki RAPP#5&6	State-Thermal	Merit	4.11	581	143049
	RAPP#586 RAPP#788	Central	Merit	4.18	765	143630 144395
raf		Central	Merit	4.18		The second secon
	Inter system exchange (Bilateral &	IPP	A COLUMN	4.10	634	145029

मुख्य अभियन्ति (सरर-1) केस्को, कान्सुर

S.No.	Source of Power	Туре	Dispatch Mode	Variable Charge (Rs / kWh)	Power Procurement (MU)	Cumulative Procurement (MU)
	PXIL, IEX) / UI			KAA11)	1	1
77	Uri-II	Central	March	4.50		
78	Karcham-Wangtoo		Merit	4.39	314	161070
79	IGSTPP, Jhajhjhar	IPP	Merit	4.47	1131	162201
80	Bajaj Hindusthan	IPP	Merit	4.70	368	162568
81		IPP	Merit	4.73	2982	the second second second second second second
1,177	Renewable Energy	IPP	Must-Run	4.80	3641	165550
82	NVVN Coal Power	IPP	Merit			169192
83	Captive and Cogen	IPP		5.54	352	169543
	Company of the Compan	IPP	Merit	5.60	3412	172955

SOURCE WISE ENERGY MET FOR THE CONTROL PERIOD

MU MU	553 2,507 1,28,908	1,999 6,579	3,641 15,727
		1,999	3,641
I IMI I	553	4.000	
		3,412	3,412
MU	3.412		-
MU	352	352	352
MU	57,580	68,660	74,863
		2,456	3,090
		4,417	5,146
1,110			28,474
		-	1,009
MU	500000000000000000000000000000000000000		37,240
MU			77 240
	MU MU MU MU MU MU MU MU	MU 30,819 MU 1,009 MU 26,523 MU 3,746 MU 2,407 MU 57,580 MU 352 MU 3,412	MU 1,009 1,009 MU 26,523 27,452 MU 3,746 4,417 MU 2,407 2,456 MU 57,580 68,660 MU 352 352 MU 3,412 3,412

मुख्य अभियन्ता (स्तर-1) केस्को, कानपुर

SUMMARY OF MONTHLY POWER PURCHASE FOR FY 2017-18

The summary of monthly power purchase at UPPCL level along with the allocation of the same among all the Discoms is shown in the table below:

Particulare													
Other Manual Control	Apr	May	June	July	Aun	Cont	-						
Total Monthly Power	11 241	13001	1		Sac.	acht	oct	Nov	Dec	Jan	Feb	Mar	Total
Purchase Required	74-7/77	12,334	12,316	12,332	12,442	10,426		9.258	7690	5000	0.000		
			Allocat	ion of Ann	Parison B.		- 37		17077	20076	6,044	10,068	128,908
NANT	2,335	2.566	2 550	ממש מיייייי	Word Pow	er Purchas	_	ang Discon	15				
IVVNL	2 274	2000	000012	7,001	7,584	2,165		1.923		5000	4.300	-	
VANI	4/5/4	6647	7647	2,495	2.517	2 100		. 020		24012	1,795	2,091	26,773
WOON!	3,384	3,719	3,707	3,712	3.745	3 138		1,8/3	1	1,989	1,749	2,037	26,079
FECO	2,839	3,120	3,110	3,115	3.142	2,433		78/7	1	2,959	2,602	3,031	38,803
0000	410	450	449	449	453	380	270	2,338	2,431	2,483	2,183	2,543	32,556
					A	200	-1	33/		358	315	267	1000

SUMMARY OF MONTHLY POWER PURCHASE FOR FY 2018-19

The summary of monthly power purchase at UPPCL level along with the allocation of the same among all the Dis-

Particulars	Apr	May	Tremo	* *		Transferring and a second		THE REAL PROPERTY.					
Fotal Monthly Power		Liay	anne	July	Aug	Sept	Oct	Nov	L		The state of the s		4
Pirchaeo Dogingo	13.392	14 719	14 673	1000					1	Jan	Feb	Mar	
paulineau seguinea		FT 11	5/0/17	760'51	14,824	12,421	12,352	11,030	11,469	11 713	10 200		
			Allocation	An of Anna	6 7 7 7 7		Control of the Contro			241144	067/07	21,995	_
DAVAL	2 783	2 050	2000	וממא וס ווס	oved Powe	r Purchase	(MU) amoi	ng Discoms	10				1
AVVANI	20.12	2,030	2,042	3,053	3 080	2 501	2000	1	l				
IVVAL	2,920	3,209	3 100	2 204	0000	7007	2,200	7677		2,434	2 140	0 400	21.010
NNN NNN NNN NNN NNN NNN NNN NNN NNN NN	000	2011	2/17/2	2,204	3,232	2.708	2693	2 405			0 1/2	26172	016/16
D. M. Control	3,929	4,318	4,304	4.310	4 340	2 644	2000	5,703	Τ	4,554	2,245	2,615	33.485
FUVANE	3,307	3.634	3 623	3 630	2000	11000	3,523	3,236	3,364	3,436	3.021	3 510	45 052
(ESCO	454	400	4000	07070	0000	3,067	3,050	2,723		2 803	2 543	2000	7000
		433	438	498	503	421	410	27.4	l.	26072	2,243	796'7	37,920
							271	5/4		397	349	407	010

SUMMARY OF MONTHLY POWER PURCHASE FOR FY 2019-20

The summary of monthly power purchase at UPPCL level along with the allocation of the same among all the Discoms is shown in the table below;

5,210

407

Particulars	Apr	May	Time			П							
Total Monthly Power			2000	Juny	Aug			Nov	Dac	200	1 4	-	The second secon
Durchaco Bonnian	15.082	16 576	16 534	1					2	Jan	rep	Mar	Total
naintea veduired		0.000	476'07	10,546	16,694	13,988	13,910	12,422	12 916	12 101	1 100	-	
			Allocati	On of Annua	4		1 6			40/434	160111	13,508	172,955
JNANG	2 001		TROOP OF	on or Appr	oved Powe	Č.	_	no Diecom				A CONTRACTOR OF THE PERSON OF	
100000000000000000000000000000000000000	160'6	3,403	3.393	3 307	2 430		ч.	moneto fin					
JANA	3 452	2 704	2 202	1000	07470			2.551		2 700	3 304		
VANNI	1	2/124	2,782	3,787	3.821			2 0 43	1	2//00	700'7	4/1/7	35,512
- Alaid	4,372	4,805	4.790	4 705	4 030			2,843		3,019	2,654	3.092	30 507
DANNE	3,676	4 040	1 1	2000	4,039			3.601		2 034	2000	1000	100/00
LECTO	2	0*0'+	4,02/	4,033	4.069			0000		2,024	20010	3,916	50,134
i ESCO	486	534	532	133	537			3,028	3,148	3,215	2,827	3,292	42.154
					320		-11	400		425	372	726	



8. FINCNCIAL PLAN FOR FY 2017-18 TO FY 2019-20

The Hon'ble Commission has issued MYT Distribution Tariff Regulations, which require that the Distribution Licensee shall file Aggregate Revenue Requirement (ARR) complete in all respect along with requisite fees as prescribed by the Commission. The ARR Petition shall contain details of estimated expenditure and expected revenue that it may recover in the ensuing financial year at the prevailing rate of tariff. Further the Distribution Tariff Regulations require that ARR shall separately indicate Aggregate Revenue Requirement (ARR) for Wheeling & Retail Supply function embedded in the distribution function. Till such time complete segregation of accounts between Wheeling and Retail Supply Business takes place, ARR proposals for Wheeling and Retail Supply Business shall be prepared based on an allocation statement to the best judgment of the distribution licensee. The Hon'ble Commission in MYT Distribution Tariff Regulations has broadly classified cost incurred by the licensee as controllable & uncontrollable costs. Uncontrollable cost include fuel cost, increase in cost due to changes in interest rate, increase of cost due to inflation, taxes & cess, variation of power purchase unit costs etc. In its Tariff Order for 2007-08, the Hon'ble Commission used allocation methodology for segregation of Wheeling & Retail Supply business function of ARR. The Petitioner has adopted the same methodology for deriving wheeling charges, as the complete segregation of accounts between Wheeling and Retail Supply business has not yet been completed.

COMPONENTS OF ANNUAL REVENUE REQUIREMENT

The Hon'ble Commission notified Uttar Pradesh Electricity Regulatory Commission (Multi Year Distribution Tariff) Regulations, 2014 on May 12th, 2014. Regulation 24 of the MYT Distribution Regulations provides the principles for determination of ARR wherein the Aggregate Revenue Requirement for the Distribution Business of the Distribution Licensees for each year of the Control Period, shall contain the following financial parameters:

- · Cost of power procurement;
- Transmission & Load Dispatch charges;
- Operation and Maintenance expenses;
 - Employee Expenses
 - Repair and Maintenance Expenses
 - Administrative & General Expenses
- · Depreciation;
- Contingency Reserves;
- Interest on Loan;
- Interest on Working Capital;
- Bad Debts;
- Return on Equity;
- Income Tax;
- · Non-Tariff Income; and
- Income from Other Business

8.1 POWER PURCHASE COSTS

As per the source wise details provided in the previous sections of this Business Plan.

The total power purchase quantum along with the yearly inter-state transmission charges (PGCIL) as envisaged in the MYT Petition, are summarized below:

Table 8-1: Power Purchase Summary

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Financial Year	Power Purchase MU's	Power Purchase Cost (Rs. Crore)	PGCIL Charges (Rs. Crore)	Total Power Purchase Cost at UPPCL Leve
2017-18	128,908	F2.010		(Rs. Crore)
2018-19	153,577	52,919	1,868	54,787
2019-20	The state of the s	66,033	2,317	68,350
2019-20	172,955	77,433	3,031	80,465

Table 8-2: Projected Power Purchase Costs for the Tariff Period for KESCo

Particulars	Derivation			KESCO
Energy Sales (MU)	Derivation	2017-18	2018-19	2019-20
Distribution Loss (%)	Α	3,763.70	4,194.16	4,671.18
Distribution Loss (MU)	В	15.28%	15.13%	11.80%
	C = A/(1-B)-A	679.04	747.46	The second secon
Power Purchase Required (MU)	D=A+C	4,442.74	4,941.62	624.94
Bulk Power Purchase Rate (Rs/kWh)	F	4.49	10.000	5,296.12
Power Purchase Cost (Rs Crore)	F=DxE/10	The state of the s	4.69	4.89
(1.0.010)	L-DXE/10	1,996.28	2,318.55	2,590.54

TRANSMISSION CHARGES 8.2

The inter-state transmission charges payable by the UPPCL to PGCIL during the MYT period as projected in the table below. The PGCIL charges consequent to inter-state transmission is being levied on energy procured from NTPC, NPCIL, NHPC, SJVNL, Tehri, TALA and others generator supplying power from outside the boundary of the state. These charges have been incorporated in Power Procurement Cost. The petitioner submits that while considering power procurement to meet the State's requirement, losses external to its system i.e., in the Northern Region PGCIL system need to be accounted for.

The projections of transmission charges have been traced from the ARR/MYT Tariff Petition filed by U.P. Power Transmission Corporation Ltd (UPPTCL) for the 1st MYT control period filed before the Hon'ble Commission.

In such Petition U.P. Power Transmission Corporation Ltd has projected transmission charge at the rate of Rs. 0.2071 per kWh for FY 2017-18, Rs. 0.2365 per kWh and Rs. 0.2622 per kWh in FY 2019-20, Accordingly licensee has estimated the cost of intra state transmission charges for the MYT period in the tables given below.

Table 8-3: Projected Transmission Charges for KESCo

		The second secon	CO
-	FY 2017-18	FY 2018-19	FY 2019-20
A	4,442.74	4.941.62	5,296.12
B	0.2071		The state of the s
C=AxB/10	92.01	The state of the s	0.2622 138.86
	A B	FY 2017-18 A 4,442.74 B 0.2071	A 4,442.74 4,941.62 B 0.2071 0.2365

8.3 OPERATION & MAINTENANCE EXPENSES

The MYT Distribution Tariff Regulations, 2014 mandates the Commission to stipulate a separate trajectory of norms for each of the components of O&M expenses viz., Employee cost, Repairs and maintenance (R&M) expenses and Administrative and General Expenses (A&G) Expenses.

Regulation 25 of the MYT Distribution Regulations issued by the Hon'ble Commission provides the methodology for projection of Operation & Maintenance expenses for the control period. O&M expenses comprise of Employee costs, Administrative & General (A&G) Expenses and Repair & Maintenance (R&M) expenses. Further the detailed methodology stated in Regulation 25 of the MYT Distribution Regulations is re-produced as below:

"25. Operation & Maintenance Expense

(a) The Commission shall stipulate a separate trajectory of norms for each of the components of O&M expenses viz., Employee cost, Repairs and maintenance-(R&M)

expense and Administrative and General Expense (A&G) expense. Provided that such norms may be specified for a specific Distribution Licensee or a class of Distribution Licensees.

- (b) Norms shall be defined in terms of combination of number of personnel per 1000 consumers and number of personnel per substation along with annual expenses per personnel for Employee cost; combination of A&G expense per personnel and A&G expense per 1000 consumers for A&G expenses and R&M expense as percentage of gross fixed assets for estimation of R&M expenses:
- (c) One-time expenses such as expense due to change in accounting policy, arrears paid due to pay commissions etc., shall be excluded from the norms in the trajectory.
- (d) The expenses beyond the control of the Distribution Licensee such as dearness allowance, terminal benefits etc. in Employee cost etc., shall be excluded from the norms in the trajectory.
- (e) The One-time expenses and the expenses beyond the control of the Distribution Licensee shall be allowed by the Commission over and above normative Operation & Maintenance Expenses after prudence check.
- (f) The norms in the trajectory shall be specified over the control period with due consideration to productivity improvements.
- (g) The norms shall be determined at constant prices of base year and escalation on account of inflation shall be over and above the baseline.

Thus, the MYT Distribution Tariff Regulations, 2014 provides for determination of the Employee cost norm, which would evidently be done pursuant to the benchmarking study. The Discom has successfully completed its benchmarking study of operational parameters in line with the MYT Distribution Tariff Regulations, 2014 and has also submitted the report to the Hon'ble Commission. Further, as per the observations and comments of the said benchmarking report the number of personnel per 1000 consumers in case of Kesco is 3.27 as compared to the statistical mean of the data of sample Discoms (excluding UP Discoms) which is 2.85. Further the total sanctioned employees per 1000' consumers is 5.88. Thus, the employee engagement has to be seen as working employee strength vs. sanctioned employee strength. It depicts that the actual deployment of staff is hardly 72% against the sanctioned employee strength, there by depicting that it is acutely under-staffed. The shortage is even more pronounced in respect of technical staff as compared to non-technical staff, which is reflective of both lower Employee cost per unit of energy sales as well as lower efficiency scores. Thus the Petitioner plans to increase its no. of employees in order to cater the increasing no. of consumers and sales on account of increase in supply hours and connecting the unconnected consumers of the state.

Accordingly the Petitioner in the instant Petition for the purpose of projecting the Employee costs and Administrative & General (A&G) Expenses, considering the observations made in the benchmarking report has claimed additional establishment expenses on the account that if there would have been no under-staffing and the actual employee strength would be parallel to the sanctioned employee strength, the actual establishment cost would have been higher as compared to what has been reflected in the audited accounts of the Petitioner. For this purpose the Petitioner has taken the financial year 2014-15 as the Base year for which the Audited accounts are available with the Petitioner.

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8.3.1 EMPLOYEE EXPENSES FOR FY 2017-18 TO 2019-20

The Petitioner has computed the Employee expenses for the control period FY 2017-18 to FY 2019-20 as per the Regulation 25.1 of the MYT Transmission Regulations as below:-

"Employee cost shall be computed as per the approved norm escalated by consumer price index (CPI), adjusted by provisions for expenses beyond the control of the Licensee and one time expected expenses, such as recovery/adjustment of terminal benefits, implications of pay commission, arrears, Interim Relief etc., governed by the following formula:

EMPn= (EMPb * CPI inflation) + Provision

Where:

EMPn: Employee expense for the year n.

EMPb: Employee expense as per the norm

CPI inflation: is the average increase in the Consumer Price Index (CPI) for immediately preceding three financial years.

Provision: Provision for expenses beyond control of the Distribution Licensee and expected one-time expenses as specified above."

Further the Petitioner has also considered the methodology provided in the Hon'ble Commission's approach note for calculation of O&M Expenses dated February 23rd, 2017. The Petitioner has considered the base year as '2014-15', for which the audited accounts are available as on the date of submission of the Multi-Year Tariff Petition. The Petitioner in the following table has worked out the norms depicting cost of per employee deployed based on the actual employee expenses incurred during the past five financial years:

Table 8-4: Norms - Rs. Crore Employee Cost per 1000' Consumers

Particulars	2011-12	2012-13	2013-14	2014-15	2015-16	Average
Gross Employee Costs	98.48	102.26	103.58	99.42	2010/2012/2012	of 5 years
No. of Consumers	566,597	596,585	484,089		104.34	2000
Norms per 1000 consumor	0.174			526,035	546,151	0.188
Norms per 1000 consumer	0.174	0.171	0.214	0.189	0.191	

The Petitioner has considered the above worked out norm of Rs. Crore employee cost per 1000' Consumers as the employee cost per 1000's consumer for the middle year i.e. for FY 2013-14 and has thereafter applied the yearly increase in the CPI inflation Index for FY 2014-15, 2015-16 and 2016-17 to reach the base year norms, for the purpose of calculation of employee expenses for the MYT Period. The determination of Rs. Crore employee cost per 1000' employee and thereafter the total employee cost in Rs. Crore for the Control period is depicted in the table below:

Table 8-5: Determination of Employee Cost per employee for FY 2017-18 (Rs. Crore)

Particulars	Base	or per emplo		27 20 (NS. CI	. crore)	
CPI Inflation	Value	2016-17	2017-18	2018-19	2019-20	
		4.12%	7.21%	7.21%	7 240	
Norms per 1000 consumer (Rs Crore) No. of Consumers	0.188	0.220	0.235	0.252	7.21%	
Employee Expenses (Rs Crore)		565,964	608,948	655,257	0.271 705,152	
employee expenses (Rs Crore)		124.29	143.37	165.39	190.81	

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Further in addition to above, the Petitioner also requests the Hon'ble Commission to allow the additional Employee Expenses on account of increase in No. of Employees to cover up the under deployment of the staff at the Discom end. The work out the same the Petitioner has considered the data for FY 2014-15, being the latest available audited accounts of the Petitioner and thus the same would provide a true and fair picture of the employee strength vis-a-cis the employee cost of the Petitioner.

The Sanctioned employee strength for Kesco for FY 2014-15 is 9114, against which the actual no. of employees deployed are 6630, thus there is a shortage of 2484 employees resulting in under-performance of the disocms in terms of operational parameters. Therefore to determine the additional cost on account of increase in employee strength the Petitioner in the below table as a first step has worked out the Notional Gross establishment expenses for FY 2014-15, had been the complete employee sanctioned strength was deployed at the Petitioner's office, to reach at the Base value of Gross establishment cost for the year as detailed in the table below:

Table 8-6: Additional Employee Expenses for FY 2014-15

Particulars	Unit	Amount
Gross Establishment Expenses for FY 2014-15	Rs. Crore	99
Actual No. of Employees	No.s	1,718
Sanctioned Employees	No.s	3,092
Under Deployment of Employees	No.s	1,374
Gross Employee Expenses considering the full Sanctioned Employees being the Actual Employees	Rs. Crore	179
Additional Employee Cost for the year if total sanctioned employees are being hired	Rs. Crore	79.51

Thereafter the above derived employee cost has been escalated by average increase in the CPI inflation index for FY 2015-16 and 2016-17 to reach the base values for projection of additional employee cost for the MYT period as detailed in the table below:

Table 8-7: Additional Employee Expenses projected for the MYT Period (Rs. Crore)

Particulars	Base Value	2016-17	2017 10	1	-
CPI Inflation	Dasc value	2010-1/	2017-18	2018-19	2019-20
		4.12%	7.21%	7.21%	The second second second second second
Additional Employee Cost	79.51			7.21%	7.21%
Projec cost	/9.51	87.46	93.76	100.52	107.76
				200102	10/./0

Thus, the total gross employee expenses claimed for the control period in depicted in the table below:

Table 8-8: Gross Employee Expenses for the MYT Period (Rs. Crore)

Particulars	2017-18	2012 10	
Employee Costs as per the provisions of the		2018-19	2019-20
MYT Regulations	143.37	165.39	190.81
Additional Employee expenses on account of	AND THE REST		
increase in Employee Strength	93.76	100.52	107.76
Gross Employee Expenses	237.13	200.00	
	237.13	265.91	298.57

The Petitioner further submits that the 7th pay is expected to be implemented in the state by next financial year i.e. FY 2017-18. Thus in addition to the above the Petitioner has also claimed arrears and implications of the 7th pay commission which are expected to be discharged in FY 2017-18 and subsequent years. Since the 7th pay is effective from 1st January 2016, hence the impact of the 7th pay over the employee expenses is computed for different years starting from FY 2015-16 (last quarter of FY 2015-16). The overall increase in the employee expenses due to implementation of the 7th pay is estimated to be approximately 15%. The Petitioner has computed the yearly impact of the 7th pay by escalating the employees expenses for FY 2015-16 at 15% and the expenses thus arrived are further escalated by the applicable escalation rate of each year to derive the 7th pay impact of subsequent years.

The impact of the 7^{th} pay for FY 2015-16 and FY 2016-17 are expected to be discharged in FY 2017-18 and FY 2018-19 in two equal installments. Based on the above the overall employee expenses are worked out as follows:

Table 8-9: Employee Expenses for the MYT Control Period (Rs Crore)

Particulars efore Considering the provision of 7th Pay Commission ross Employee Expenses Before Provision ess: Capitalisation et Employee Expenses Before Provision scalation Index / CPI Inflation (%) ffective 7th Pay Impact (%)	Revised Estimates 109.26 0.00 109.26	Revised Estimates 113.52 17.03	MYT Projections 237.13	2018-19 MYT Projections 265.91	2019-20 MYT Projections
ross Employee Expenses Before Provision ess: Capitalisation et Employee Expenses Before Provision scalation Index / CPI Inflation (%)	0.00	113.52	237.13		
ross Employee Expenses Before Provision ess: Capitalisation et Employee Expenses Before Provision scalation Index / CPI Inflation (%)	0.00	The state of the s	The second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the s	265.01	75/5/2000
ess: Capitalisation et Employee Expenses Before Provision scalation Index / CPI Inflation (%)	0.00	The state of the s	The second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the s		
scalation Index / CPI Inflation (%)		47.03	42 40		298.57
scalation Index / CPI Inflation (%)		96.49	42.49 194.64	47.46	51.50
ffective 7th Pay Impact (%)		T-127-100-000-00-00-00-00-00-00-00-00-00-00-0	194.04	218.45	247.07
	15.00%	4.12%			
otal 7th Pay Impact (Rs. Crore)	4.10	17.00	25.50		
rrears Payable (Rs. Crore)	4.10	17.06	35.57	39.89	44.79
otal 7th Pay Impact Payable, including Arrears			10.58	10.58	
Rs. Crore)*			46.15	50.47	44.79
lowable Gross Employee Expenses (Rs. Crore)	109.26	113.52	202.20	3500	
	103.20	113.52	283.28	316.38	343.35
ter Considering the provision of 7th Pay Commission					
ross Employee Expenses (Rs. Crore)	109.26	113.52	202.20		
ess: Capitalization	0.00	17.03	283.28	316.38	343.35
et Employee Expenses (Rs. Crore)	100.26	0.0	42.49	47.46	51.50
The 7th pay commission is effective from 1.1.2016. The a 117-18. The arrears for FY 2015-16 & FY 2016-17 are expe The employee expenses capitalized during		96.49	240.79	268.92	291.85

The employee expenses capitalized during the MYT period have been considered at a normative rate of 15%, in line with the similar methodology considered by the Hon'ble Commission, in its Previous Tariff Orders.

The Petitioner respectfully submits that it has considered the pay revision impact of 15 %, however, the Petitioner reserves the right to claim any deviation in the employee expenses on account of any "recovery/adjustment of terminal benefits, implications of pay commission, arrears, Interim Relief etc." at the stage of truing up.

8.3.2 REPAIR & MAINTENANCE EXPENSES FOR FY 2017-18 TO 2019-20

The Petitioner has computed the Repair & Maintenance expenses for the control period FY 2017-18 to FY 2019-20 in accordance with provisions of Regulation 25.2 of the MYT Distribution Regulations as re-produced below:-

"Repairs and Maintenance expense shall be calculated as percentage (as per the norm defined) of Average Gross Fixed Assets for the year governed by following formula:

R&Mn= Kb * GFAn

Where:

R&Mn: Repairs & Maintenance expense for nth year

GFAn: Average Gross Fixed Assets for nthyear

Kb: Percentage point as per the norm."

Thus, R&M expenses as a percentage of Average GFA is calculated by dividing the total R&M expenses with GFA balance of the relevant year. To arrive at the percentage norm or the factor 'Kb' for calculation of R&M expenses for the MYT period the Petitioner has referred to the methodology provided in the Hon'ble Commission's approach note for calculation of O&M Expenses dated February 23rd, 2017. The WPI annual escalation index has been considered for for computing the R&M expense for the Control Period.

Accordingly the Petitioner in the instant Petition has firstly worked out the norms for the base year considering the average of past five years of the R&M expenses as a percentage of

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Table 8-10: % Norm for R&M Expenses for the MYT Control Period

Particulars	2011-12	2012-13	2013-14	2014-15	2015-16	Average of 11-
Opening GFA	547.03	562.87	502.22			16
Opening Closing	562.88		583.27	616.02	636.33	
Average GFA		583.27	616.02	636.33	636.59	-
	554.96	573.07	599.64	626.18		+
R&M Expenses	25.43	35.16	46.16	The state of the s	636.46	6.81%
Kb	4.58%			46.00	52.61	
	4.58% 6.14%	7.70%	7.35%	8.27%		

The Petitioner has considered the above worked out norm of % R&M expenses of average GFA balance as the % R&M expenses of average GFA balance for the middle year i.e. for FY 2013-14 and has thereafter applied the yearly increase in the WPI inflation Index for FY 2014-15, 2015-16 and 2016-17 to reach the base year norms, for the purpose of calculation of repair and maintenance expenses for the MYT Period. The determination of R&M for the control period is depicted in the table below:

Table 8-11: R&M Expenses for the MYT Control Period (Rs. Crore)

Kesco	2015-16	2016 17			
Average GFA		2016-17	2017-18	2018-19	2019-20
WPI Index	636.46	671.96	789.65	971.49	1,178.57
The state of the s		3.67%	1.83%	1.83%	
Kb	6.81%	7.06%	7.18%	The state of the s	1,83%
R&M Expenses	43.32	47.41		7.32%	7.45%
	10102	47.41	56.73	71.08	87.81

8.3.3 ADMINISTRATIVE AND GENERAL EXPENSES FOR FY 2017-18 TO 2019-20

The Petitioner has computed the administrative and general expenses for the control period FY 2017-18 to FY 2019-20 as per the Regulation 25.3 of the MYT Distribution Regulations stated as below:-

"A&G expense shall be computed as per the norm escalated by wholesale price index (WPI) and adjusted by provisions for confirmed initiatives (IT etc. initiatives as proposed by the Distribution Licensee and validated by the Commission) or other expected one-time expenses, and shall be governed by following formula:

A&Gn= (A&Gb * WPI inflation) + Provision

Where:

A&Gn: A&G expense for the year n A&Gb: A&G expense as per the norm WPI inflation: is the average increase in the Wholesale Price Index (WPI) for immediately preceding three financial years Provision: Cost for initiatives or other one-time expenses as proposed by the Distribution Licensee and validated by the Commission. "

Further the Petitioner has also considered the methodology provided in the Hon'ble Commission's approach note for calculation of O&M Expenses dated February 23rd, 2017. The Petitioner has considered the base year as '2014-15', for which the audited accounts are available as on the date of submission of the Multi-Year Tariff Petition. The Petitioner in the following table has worked out the norms depicting cost of A&G expenses per 1000' employees based on the actual A&G expenses incurred during the past five financial years:

Table 8-12: Norms - Rs. Crore A&G Cost per 1000' Consumers

2011-12	2012-13	2013-14	2014-15	2015 16	Average
11.10	40.00		2014-13	2015-16	5 years
The first of the contract of t	the state of the s	53.59	57.35	74.97	3 years
	596,585	484.089	The second secon	The second secon	
0.020	0.068		The state of the s	to probably the second second	0.089
	11.19 566,597 0.020	11.19 40.75 566,597 596,585	11.19 40.75 53.59 566,597 596,585 484,089	11.19 40.75 53.59 57.35 566,597 596,585 484,089 526,035	11.19 40.75 53.59 57.35 74.87 566,597 596,585 484,089 526,035 546,151

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The Petitioner has considered the above worked out norm of Rs. Crore A&G cost per 1000' Consumers as the A&G cost per 1000's consumer for the middle year i.e. for FY 2013-14 and has thereafter applied the yearly increase in the CPI inflation Index for FY 2014-15, 2015-16 and 2016-17 to reach the base year norms, for the purpose of calculation of A&G expenses for the MYT Period. The determination of Rs. Crore A&G cost per 1000' employees and thereafter the total A&G cost in Rs. Crore for the Control period is depicted in the table below:

Table 8-13: A&G Expenses for the MYT Period (Rs. Crore)

Particulars	Base Value	2016-17	2017-18	2018-19	2019-20
CPI Inflation	123(4)	3.67%	1.83%	1.83%	1 030/
Norms per 1000 consumer (Rs Crore)	0.089	0.092	0.093	0.095	1.83%
No. of Consumers		565,964	608,948	The state of the s	0.097
A&G Expenses (Rs. Crore)	-			655,257	705,152
(no. crore)		51.92	56.89	62.34	68.31

Currently, no amounts have been claimed under the entitlement "Provision" provided by the MYT Distribution Regulations. However, the Petitioner reserves the right to claim any deviation in A&G expenditure owing to any "cost for initiatives or other one-time expenses" at the stage of truing up.

8.4 OPERATION AND MAINTENANCE EXPENSES FOR FY 2017-18 TO 2019-20

The allowable O&M expenses as claimed by the Petitioner in the instant petition for the control period FY 2017-18 to FY 2019-20 are depicted in the table below:

Table 8-14: Allowable O&M Expenses for MYT control period (Rs Crore)

Particulars	FY 2017-18	FY 2018-19	FY 2019-20
	Projected	Projected	Projected
Employee Expenses	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		, rojecteu
Gross Employee Costs and Provisions	237.13	265.91	298.57
Arrear of Pay Commission/Time Scale	46.15	50.47	Control and American
Gross Employee Expenses	283.28	316.38	44.79
Employee expenses capitalized	42.49	775777000000000000000000000000000000000	343.35
Net Employee Expenses		47.46	51.50
A&G Expenses	240.79	268.92	291.85
Gross A&G Expenses			
Gross A&G Expenses	56.89	62.34	68.31
A&G expenses capitalized	56.89	62.34	68.31
Net A&G Expenses	8.53	9.35	10.25
ince Add Expenses	48.35	52.99	58.06
R&M Expenses			
Repair & Maintenance Expenditure	56.73	71.00	
Gross Repair & Maintenance Expenses		71.08	87.81
	56.73	71.08	87.81
Gross O&M Expenses	205.04		
.ess: Capitalsed	396.91	449.79	499.47
Total O&M Expenses Allowable as per Regulations	51.03	56.81	61.75
as per Regulations	345.88	392.98	437.72

The Petitioner submits that increase in dearness pay may be higher than the escalation index determined as per the Distribution Tariff Regulations. It is humbly prayed that any variation in employee expenses due to increase in dearness pay, may be considered by the Hon'ble Commission, at the time of true-up for the relevant year; based on specific submissions by the Petitioner in this regard.

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8.5 CAPITAL EXPENDITURE, CAPITAL FORMATION ASSUMPTION AND GROSS FIXED ASSET (GFA) BALANCES

In line with the Regulation 23A of the MYT Distribution Tariff Regulations, 2014, the Petitioner has provided the detailed breakup of scheme wise capital expenditure proposed during the control period in its business plan for the purpose of determination of ARR for the Control period along-with the financing plan for each of the capex scheme proposed and the details of capital expenditure to be done from the deposit works received as consumer contribution towards cost of capital asset. The complete details of the capital investment schemes for FY 2017-18 and 2019-20 are provided in the MYT Business Plan of the Distribution Licensee which is being submitted along with this petition. The physical and financial progress of the ongoing and new capex schemes has also been provided in the MYT Business Plan.

Accordingly, the summary of the total Proposed Capital Expenditure for each year of the Control period is depicted in the tables below:

Table 8-15: Summary of Proposed Capital Expenditure during the Control Period (Rs Crore)

FY	Loans	Equity / Internal Accruals	Deposit Works	Total
2016-17	56.14	24.06		10000
2017-18	154.88		11.23	91.43
018-19		66.38	30.98	252.23
the district of the late of th	116.20	49.80	23.24	The second secon
2019-20	105.00	45.00		189.24
		15.00	21.00	171.00

8.6 FINANCING OF THE CAPITAL INVESTMENT

The Petitioner has considered a normative gearing of 70:30. Considering this approach, 70% of the capital expenditure undertaken in any year has been considered to be financed through loan and balance 30% has been considered to be financed through equity contributions. The portion of capital expenditure financed through consumer contribution, capital subsidies and grants has been separated as the depreciation and interest thereon would not be charged to the beneficiaries.

The amounts received as consumer contributions, capital subsidies and grants are traced from the provisional accounts for FY 2015-16. Further, the consumer contributions, capital subsidies and grants for 1st Control Period have been considered to be in the same ratio to the total investments, as received by it in FY 2014-15 for which the audited accounts are available.

The table below summarizes the amounts considered towards consumer contributions, capital grants and subsidies for the MYT control period:

Table 8-16: Consumer Contribution, Capital Grants & Subsidies (Rs Crore)

Opening Balance of Con-	2017-18	2018-19	2019-20
Opening Balance of Consumer Contributions, Grants and Subsidies towards Cost of Capital Assets	170.03	188.76	194.83
Additions during the year	20.00		154.05
Less: Amortisation	30.98	23.24	21.00
Closing Balance	12.25	17.17	22.61
olosing balance	188.76	194.83	193.22

Table 8-17: Financing of the Capital Investment (Rs Crore)

Particulars	Derivation	2017-18		
Investment	- crivacion		2018-19	2019-20
Less:	A	252.23	189.24	171.00
Consumer Contribution				The state of the s
	В	30.98	23.24	21.00
Investment funded by debt and	C=A-B	221.25	166.00	21.00 150.00

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Particulars	Derivation	2017-18	2018-19	2019-20
equity		2027 20	2010-19	2019-20
Debt Funded	70%	154.88	116.20	105.00
Equity Funded	100.00		The State of the S	105.00
equity runded	30%	66.38	49.80	45.00

Thus, the Petitioner submits that the capital investments proposed during the MYT period after netting off the capital investment through deposit works, has been considered to be funded through debt and equity of 70:30, as depicted in the above table.

8.7 DEPRECIATION EXPENSE

The summary of the Depreciation claimed for each year of the MYT Period is provided in the table below:

Table 8-18: Gross Allowable Depreciation for 1st MYT control period (Rs Crore)

Particulars	Derivation		Mili control perio	
Opening GFA	Derivation	2017-18	2018-19	2019-20
The state of the s	A	707.34	871.97	1,071.02
Additions to GFA	В	164.63	199.06	215.09
Deductions to GFA	C		233.00	215.09
Closing GFA	D	871.97	4 074 00	
Cumulative Depreciation	E		1,071.02	1,286.11
Rate of Depreciation (%)		384.23	403.38	430.22
	F	7.75%	7.75%	7.75%
Gross Allowable Depreciation	((A-E)+B/2)*F	31.40	44.01	57.97

The Petitioner has also projected the depreciation on assets created out of consumer contributions, capital grants and subsidies for the 1st Control period in the same ratio as per the audited accounts of FY 2014-15. The Petitioner has reduced the equivalent depreciation in respect of depreciation on assets created out of consumer contributions, capital grants and subsidies from the Gross Allowable Depreciation to arrive at Net Allowable Depreciation for the purpose of ARR determination.

Thus, the net allowable depreciation for the $1^{\rm st}$ Control Period has been depicted in the table below:

Table 8-19: Net Allowable Depreciation for the 1st Control Period (Rs Crore)

Particulars	2017-18	2018-19	
Constant	2017 10	2010-19	2019-20
Gross Allowable Depreciation	31.40	44.01	57.97
Less: Equivalent amount of depreciation on assets acquired out of the Consumer Contribution and GoUP Subsidy	12.25	17.17	22.61
Net Allowable Depreciation	19.15	26.84	35.35

8.8 INTEREST ON LONG TERM LOANS

It is reiterated that the Petitioner has considered a normative tariff approach with a gearing of 70:30. In this approach, 70% of the capital expenditure undertaken in any year has been considered to be financed through loan and balance 30% has been considered to be funded through equity contributions. The portion of capital expenditure financed through consumer contributions, capital subsidies and grants has been separated as the depreciation and interest thereon has not been charged to the beneficiaries.

Allowable depreciation for the year has been considered as normative loan repayment. The weighted average rate of interest of overall long term loan portfolio for FY 2014-15 has been considered for 1st Control Period, as it seems to be fair and equitable. The interest

capitalization has been considered at a rate of 23% which is consistent with the rate considered by the Hon'ble Commission in previous tariff orders.

The computations for interest on long term loan are depicted below:

Table 8-20: Allowable Interest on Long Term Loans for MYT Control Period (Rs Crore)

Particulars	2017-18	2018-19	2019-20
Opening Loan	32.90	168.62	the second secon
Loan Additions (70% of Investments)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		257.98
Less: Repayments (Depreciation allowable for the year)	154.88	116.20	105.00
Closing Loan Balance	19.15	26.84	35.35
	168.62	257.98	327.63
Weighted Average Rate of Interest	9.48%	9.48%	9.48%
Interest on long term loan	9.55	20.22	
Interest Capitalisation Rate			27.76
Less: Interest Capitalized	23.00%	23.00%	23.00%
Net Interest Charged	2.20	4.65	6.38
ivet Interest Charged	7.36	15.57	21.37

8.9 INTEREST ON CONSUMER SECURITY DEPOSITS

In the MYT Petition, the Petitioner has computed the interest to be paid on the consumer's security deposits on the Average of opening and closing balance of the Security Deposits for the year, at SBI bank rate of 9.36%. However, the same shall be trued up based on audited accounts. The opening balances of security deposits have been considered as per closing figures of provisional accounts for FY 2015-16 and additions during the year 2016-17 is estimated in line with the projected load growth, as depicted in the load forecast model.

Table 8-21: Interest on Consumer Security Deposits (Rs Crore)

Particulars	2017-18	2018-19	
Opening Balance for Security Deposit	The second second second second		2019-20
Additions during the year	124.62	132.11	140.15
Additions during the year	7.49	8.03	8.62
Closing Balance for Security Deposit	132.11	140.15	148.77
Rate of Interest		The second secon	
Interest Baid / Davishle C	9.36%	9.36%	9.36%
Interest Paid / Payable on Security Deposits	12.02	12.74	13.52

8.10 INTEREST ON WORKING CAPITAL

In accordance with the MYT Distribution Regulations, the interest on the working capital requirement is to be considered equal to the State Bank Advance Rate (SBAR) as notified on the current date i.e. 14.05%. Considering the methodology as prescribed in the MYT Distribution Regulations, the Petitioner has worked out the working capital requirement for each year of the Control period and interest thereon, as shown in the table below:

Table 8-22: Allowable Interest on Working Capital (Rs Crore)

1 7-18 3.08 .78	2018-19 37.48 4.74 496.31	2019-20 41.62 5.85
.78	4.74	5.85
00000		
1.10	406.31	
	990,31	543.00
		373.00
7.96	538.53	590.48
2.11	140.15	148.77
5.85	398.38	441.71
05%	The same beautiful and a second second	14.05%
The second secon	the state of the s	62.06
	.05% 0.00	.05% 14.05%

8.11 SUMMARY OF INTEREST AND FINANCE CHARGES

The allowable interest and finance charges are thus summarized in the table below:

Table 8-23: Interest and Finance Charges for the 1st Control Period (Rs. Crore)

Particulars	2017-18	2018-19	2019-20
Interest on Long term Loans	9.55	20.22	27.76
Interest on Working Capital Loans	50.00	55.97	62.06
Sub Total	59.55	76.19	89.82
Interest on Consumer Security Deposits	12.02	12.74	13.52
Bank Charges	0.00	0.00	0.00
Discount to Consumers	0.00	0.00	0.00
Sub Total	12.02	12.74	13.52
Gross Total Interest & Finance Charges	71.56	88.94	103.34
Less: Capitalization of interest on Long term Loans	2.20	4.65	6.38
Interest Capitalization Rate (%)	23.00%	23.00%	23.00%
Net Interest & Finance Charges	69.37	84.28	96.96

8.12 PROVISION FOR BAD AND DOUBTFUL DEBTS

The Petitioner has made provisions for bad debts for the $1^{\rm st}$ Control Period in line with the provisions stipulated in the MYT Distribution Regulations. The Provision for Bad and Doubtful Debts for $1^{\rm st}$ Control Period are summarized in the table below:

Table 8-24: Provision for Bad and Doubtful Debts (Rs Crore)

2017-18	2010.10	2010.00
	2018-19	2019-20
2,194.39	2,367.89	2,516.78
2,706.62	2,977.84	3,257.99
2,533.13	2,828.95	3,160.25
2,367.89	2,516.78	2,614.52
2,281.14		2,565.65
2.00%		
		2.00% 51.31
	2,533.13 2,367.89	2,194.39 2,367.89 2,706.62 2,977.84 2,533.13 2,828.95 2,367.89 2,516.78 2,281.14 2,442.33 2.00% 2.00%

8.13 NON TARIFF INCOME

Non Tariff Income includes incomes such as interest on loans and advances to employees, income from fixed rate investment deposits, interest on loans and advances to licensees and other miscellaneous income from retail sources. The Petitioner has projected non-tariff income to the tune of Rs. 10.37 crore, Rs. 10.78 crore and Rs. 11.20 crore in FY 2017-18, FY 2018-19 and 2019-20 respectively. The same have been computed by extrapolating the non-tariff income booked in provisional accounts for FY 2015-16 and by using the Inflation Index of 3.89%. The same has been summarized below:

Table 8-25: Other Income (Rs Crore)

Particulars	2017-18	2018-19	2019-20
Non-Tariff Income	10.37	10.78	11.20

8.14 REASONABLE RETURN / RETURN ON EQUITY

The Petitioner has claimed the following eligible return on Equity as detailed in the table below:

Table 8-26: Return on Equity during the MYT Period

			(in Rs. Crore)	
Particulars	#	2017-18	2018-19	2019-20
Opening Balance of Equity Base	A	167.85	210.32	261.68
Gross Additions during the Year	В	49.39	59.72	64.53
Less: allocated balance of consumer contribution, capital subsidies / grants	С	6.91	8.36	9.03
Net Equity Additions	D=B-C	42.47	51.36	55.49
Closing Equity Balance	E=A+D	210.32	261.68	317.17
Average Equity Balance	F=(A+E)/2	189.08	236.00	289.42
Rate of Return on Equity(%)	G	16%	16%	16%
Return on Equity	H=F*G	30.25	37.76	46.31

8.15 ARR SUMMARY

The Consolidated Retail & Wheeling Business of ARR along with revenue gap for the $1^{\rm st}$ MYT Control Period at current tariff is summarized in the table below.

Table 8-27: Annual Revenue Requirement for FY 2017-18 to FY 2019-20 (Rs Crore)

	2017-18	2018-19	2019-20
Particulars	MYT Projections	MYT Projections	MYT Projections
Power Purchase (MU)	4442.74	4941.62	5296.12
Units Sold (MU)	3763.70	4194.16	4671.18
Power Purchase Cost from UPPCL	1996.28	2318.55	2590.54
Intra-state Transmission Charges	92.01	116.87	138.86
Employee Cost (Net of Capitalization)	240.79	268.92	291.85
A&G Expense (Net of Capitalization)	48.35	52.99	58.06
Repair & Maintenance Expense	56.73	71.08	87.81
Interest & Finance Charges (Net)	69.37	84.28	96.96
Provision for Bad and Doubtful Debts	45.62	48.85	51.31
Depreciation	19.15	26.84	35.35
Apportionment of O&M Expenses	7.22	6.99	6.89
Other Misc Expenses / Incomes	0.00	0.00	0.00
Net Prior Period Credit/Charges	0.00	0.00	0.00
Total Expenses	2575.54	2995.36	3357.64
Add: Return on Equity	30.25	37.76	46.31
Less: Other Income	10.37	10.78	11.20
Total Annual Revenue Requirement	2595.42	3022.34	
Revenue From Existing Tariff	2706.62	2977.84	3392.75
Remaining Gap/ (Surplus)	(111.20)	44.50	3257.99 134.76



9. PRAYERS

The Petitioner prays that the Hon'ble Commission may be pleased to:

- Approve this Business Plan for the MYT Control period from FY 2017-18 to FY 2019-20 submitted herewith;
- Approve the capital expenditure plan along with the physical targets and financing plan
 provided therein for the MYT Control period as proposed in the instant petition;
- Approve for the schemes for which the capital expenditure has been proposed for more than Rs. 10 crore.
- Pass suitable orders with respect to the Business Plan for the MYT Control Period from FY 2017-18 to FY 2019-20 as proposed by the Petitioner in this petition along with the relevant operational and financial parameters as proposed in the petition;
- Allow the petitioner to add/change / alter / modify this application at a future date.

UTTAR PRADESH SHASAN URJA ANUBHAG-2

In pursuance of the provisions of clause (3) of Article 348 of the Constitution, the Governor is pleased to order the publication of the following English translation of notification no. 1528/24-P-2-2015-Sa.(218)/2014 dated 03 November, 2015 for general information

NOTIFICATION

No. 1528/24-P-2-2015-Sa.(218)/2014 Lucknow, Dated: 03 November, 2015

In exercise of the powers conferred under sub-section (4) of section 131 of the Electricity Act, 2003(Act no. 36 of 2003) and sub-section (4) of section 23 of the Uttar Pradesh Electricity Reforms Act, 1999 (U.P. Act no. 24 of 1999) read with clause 7 of the Uttar Pradesh Power Sector Reforms (Transfer of Distribution Undertakings) Scheme, 2003 (Notification no. 2740/P-1/2003-24-14P/2003 dated terms and conditions of the said Uttar Pradesh Power Sector Reforms (Transfer of Distribution Undertakings) Scheme, 2003 in regard to the transfer of properties, interests, rights, liabilities, personnel and proceedings by this notification by substituting in place of Schedules A to D of the Notification no. 2740/P-1/2003-24-14P/2003 dated August 12, 2003, the Schedules A to D attached to this notification.

2. The effective date of the provisionality period under the Uttar Pradesh Power Sector Reforms (Transfer of Distribution Undertakings) Scheme, 2003 (Notification no. 2740/P-1/2003-24-14P/2003 dated August 12, 2003) as extended by the Uttar Pradesh Power Sector Reforms (Transfer of Distribution Undertakings) (Sixth Amendment), Scheme 2008 (Notification no. – 2131 / P – 2 – 2008 1 24 – 61 (M) E / Governor hereby modifies, varies and otherwise changes the terms and conditions of Scheme. 2003 (Notification no. 2740/P-1/2003-24-14P/2003 dated August 12, 2003) to provide for the provisionality period to be as under:

For sub-clauses (1), (2) and (3) of clause 7 of the Uttar Pradesh Power Sector Reforms (Transfer of Distribution Undertakings) Scheme, 2003 shall stand substituted as follows:-

(1) The classification and transfer of Undertakings under clause 3, unless otherwise specified in any order made by the State Government, shall be provisional and shall be final upon the expiry of thirteen years from the date

- of issuance of the Notification no. 2740/P-1/2003-24-14P/2003 dated August 12, 2003.
- (2) At any time within a period of thirteen years from the date of issuance of the Notification no. 2740/P-1/2003-24-14P/2003 dated August 12, 2003, the State Government may by order to be notified amend, vary, modify, add, delete or otherwise change terms and conditions of the transfer including items included in the transfer or the value thereof, and transfer such properties, interests, rights and liabilities forming part of an Undertaking of one Transferee to that of any other Transferee or to the State Government in such manner and on such terms and conditions as the State Government may consider appropriate. Upon such orders having being passed, the relevant Schedule shall stand amended accordingly.
- (3) On the expiry of the period of thirteen years from the date of issuance of the Notification no. 2740/P-1/2003-24-14P/2003 dated August 12, 2003 or the date on which the Final Transfer Scheme is published in the Gazette, whichever is earlier, subject to any directions given by the State Government, the transfer of Undertakings, properties, interests, rights and liabilities made in accordance with this Scheme shall become final.
- 3. The Uttar Pradesh Power Sector Reforms (Transfer of Distribution Undertakings) Scheme, 2003 shall be effective for all intent and purposes with the above modifications as from the date of the effective date of transfer i.e. August 12, 2003.
- 4. Notwithstanding anything contained in this notification, the foregoing provisions shall not apply to the transfer of personnel.

By Order,

(Sanjay Agarwal) Principal Secretary

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SCHEDULE -'A' - PART I

ZONE I DISTRIBUTION UNDERTAKINGS

I. DISTRIBUTION ASSETS:

All 33 kV, 11 kV, LT. (Single phase 2 wire to 3 phase 5 wire) lines (with overhead lines, Aerial Bunched cables and underground cables), and lines above 33 kV directly going to consumers from transmission Grid sub-stations, on different types of supports with various sizes of conductors and step up/step down transformers, breakers, protective and metering devices and control rooms, testing laboratories, lands (including right of way), buildings, roads, diesel generating sets or other conventional and non-conventional generating units, service connections and installations inside consumer's premises, street lighting and signal systems owned by private persons or local authorities.

II. GENERAL ASSETS/LIABILITIES:

Special tools and equipment, material handling equipment, earth movers, bulldozers, concrete mixtures, cranes, trailers, heavy and light vehicles, furniture, fixtures, office equipment, air conditioners, refrigerators, computers and signal systems, spares, consumables, raw materials, lands and civil works installations including roads, buildings, schools, dispensaries, testing laboratories and equipment, training centers, workshops, works in progress, machineries and equipment sent for repairs, scrap and obsolete materials.

III. OTHER ASSETS:

Other assets and movable properties including plant and machinery, motor car, jeeps, trucks, cranes, trailers and other vehicles, furniture, fixtures, air conditioners, computers, etc. to the extent they are utilized and operated by or associated with the assets referred to under clauses L and H above shall also form part of Distribution Undertakings.

IV. MISCELLANEOUS:

 Contracts, agreements, interest and arrangements to the extent they are associated with or related to distribution activities or to the Undertakings or assets referred to in clauses I, II, and III above.

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- 2. Loans, secured and unsecured to the extent they are associated with or related to distribution activities or to the Undertakings or assets referred to in clauses I, II, and III above.
- Cash and bank balance to the extent they are associated with or related to distribution activities or the Undertakings or assets referred to in clauses I, II, and III above.
- Other Current Assets to the extent they are associated with or related to distribution activities or to the Undertakings or assets referred to in clauses I, II, and III above.
- Other Current liabilities and provisions to the extent they are associated with or related to distribution activities or to the Undertakings or Assets referred to in clauses I, II, and III above.
- Contingent liabilities to the extent they are recognised and are associated with or related to distribution activities or to the Undertakings or Assets referred to in clauses I; II, and III above.
- Share capital of the U.P. Power Corporation Ltd. to the extent required to match the assets and liabilities referred in clauses I, II and III above.
- Other liabilities to the extent they are associated with or related to distribution activities or to the Undertakings or Assets referred to in clauses I, II, and III above.
- Proceedings to the extent they are associated with or related to distribution activities or to the Undertakings or Assets referred to in clauses I, II, and III

V. In consideration of the transfer as mentioned above, the UPPCL shall be issued 1,34,85,019 shares of face value of Rs 1000/- each in the Agra Discom.

SCHEDULE - 'A' - PART II

Aggregate Assets and Liabilities to be vested in the Agra Discom

BALANCE SHEET	AMOUNT IN RUPEES
AUGUST 11th 2003	KOTEES
FIXED ASSETS	
Gross Fixed Assets	
Less Accumulated depreciation	14,94,14,59,182
Net Fixed Assets	6,58,28,18,224
Cap. Expd. In progress	8,35,86,40,958
Total Fixed Assets	40,36,86,837
Assets	8,76,23,27,795
CURRENT ASSETS	
Cash and Bank Balances	16.00.00.100
Total stocks	46,87,30,472
Less Provision for Obsolete	2,35,58,14,347
Stores	58,78,24,692
Net Stock	1,76,79,89,655
Gross Receivable for Sale of Electricity	17,14,84,56,418
Provision for Bad & Doubtful debts	9,17,69,93,179
Net Receivables for Sale of Power	7 07 14 62 222
Other Current Assets	7,97,14,63,239
Loans & Advances	11,21,37,428
Inter Unit Transfers	2,36,00,125
Total Current Assets	87,52,42,424 11,21,91,63,343
TOTAL ASSETS	19,98,14,91,138
NIPPO AND	23,70,14,71,130
NET WORTH	
Paid up and Subscribed Share Capital	13,48,50,19,000
Consumers Contribution towards Service Connection Charges	86,96,62,102
Subsidies towards Cost of Capital Assets	50,95,93,053
Total Net Worth	14,86,42,74,155

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LONG TERM DEBTS	
NCRPB	9,17,52,000
NOIDA	39,75,000
UPSIDC	1,03,22,032
HDFC	14,55,590
Greater NOIDA	1,87,08,000
IDBI	12,49,00,000
REC	2,25,79,00,000
PFC	38,78,00,000
Financial Participation by Consumers	(55,01,616)
Interest Accrued & Due on Financial Participation by Consumers	
Total Long Term Loans	2,89,13,11,006
CURRENT LIABILITIES & PROVISIONS	2,22,59,05,977
TOTAL LIABILITIES	19,98,14,91,138



SCHEDULE -'B' - PART I

ZONE II DISTRIBUTION UNDERTAKINGS

DISTRIBUTION ASSETS:

All 33 kV, 11 kV, LT. (Single phase 2 wire to 3 phase 5 wire) lines (with overhead lines, Aerial Bunched cables and underground cables), and lines above 33 kV directly going to consumers from transmission Grid sub-stations, on different types of supports with various sizes of conductors and step up/step down transformers, breakers, protective and metering devices and control rooms, testing laboratories, lands (including right of way), buildings, roads, diesel generating sets or other conventional and non-conventional generating units, service connections and installations inside consumer's premises, street lighting and signal systems owned by or leased to the UPPCL but excluding fittings, fixtures and installations owned, by private persons or local authorities.

II. GENERAL ASSETS/LIABILITIES:

Special tools and equipment, material handling equipment, earth movers, bulldozers, concrete mixtures, cranes, trailers, heavy and light vehicles, furniture, fixtures, office equipment, air conditioners, refrigerators, computers and signal systems, spares, consumables, raw materials, lands and civil works installations including roads, buildings, schools, dispensaries, testing laboratories and equipment, training centers, workshops, works in progress, machineries and equipment sent for repairs, scrap and obsolete materials.

III. OTHER ASSETS:

Other assets and movable properties including plant and machinery, motor car, jeeps, trucks, cranes, trailers and other vehicles, furniture, fixtures, air conditioners, computers, etc. to the extent they are utilized and operated by or associated with the assets referred to under clauses I, and II above shall also form part of Distribution Undertakings.

IV. MISCELLANEOUS:

 Contracts, agreements, interest and arrangements to the extent they are associated with or related to distribution activities or to the Undertakings or assets referred to in clauses I, II, and III above.

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- Loans, secured and unsecured to the extent they are associated with or related to distribution activities or to the Undertakings or assets referred to in clauses I, II, and III above.
- Cash and bank balance to the extent they are associated with or related to distribution activities or the Undertakings or assets referred to in clauses I, II, and
- Other Current Assets to the extent they are associated with or related to distribution activities or to the Undertakings or assets referred to in clauses I, II, and III above.
- Other Current liabilities and provisions to the extent they are associated with or related to distribution activities or to the Undertakings or Assets referred to in clauses I, II, and III above.
- Contingent liabilities to the extent they are recognised and are associated with or related to distribution activities or to the Undertakings or Assets referred to in clauses I, II, and III above.
- Share capital of the U.P. Power Corporation Ltd. to the extent required to match the assets and liabilities referred in clauses I, II and III above.
- Other liabilities to the extent they are associated with or related to distribution activities or to the Undertakings or Assets referred to in clauses I, II, and III above.
- Proceedings to the extent they are associated with or related to distribution activities or to the Undertakings or Assets referred to in clauses I, II, and III

V. In consideration of the transfer as mentioned above, the UPPCL shall be issued 95,53,885 shares of face value of Rs 1000/- each in the Lucknow Discom.

SCHEDULE - 'B' - PART II

Aggregate Assets and Liabilities to be vested in the Lucknow Discom

BALANCE SHEET	AMOUNT IN RUPEES
AUGUST 11th 2003	KUPEES
FIXED ASSETS	
Gross Fixed Assets	15.00.00.00
Less Accumulated depreciation	15,82,22,87,767
Net Fixed Assets	6,97,08,88,385
Cap. Expd. In progress	8,85,13,99,382
Total Fixed Assets	63,93,70,524
- Assets	9,49,07,69,906
CURRENT ASSETS	
Cash and Bank Balances	
Total stocks	62,10,30,135
Less Provision for Obsolete	1,65,50,80,228
Stores	41,21,52,020
Net Stock	
Gross Receivable for Sale of	1,24,29,28,208
Electricity	11,22,10,32,907
Provision for Bad & Doubtful debts	6,00,49,33,618
Net Receivables for Sale of Power	5.21 (0.00.200
Other Current Assets	5,21,60,99,289
Loans & Advances	10,70,55,644
Inter Unit Transfers	2,12,48,653
Total Current Assets	1,11,59,39,427
	8,32,43,01,356
TOTAL ASSETS	17,81,50,71,262
	2.304,50,71,202
NET-WORTH	
Paid up and Subscribed Share Capital	9,55,38,85,000
Consumers Contribution towards Service Connection Charges	72,28,10,756
Subsidies towards Cost of Capital Assets	53,96,34,572
Total Net Worth	

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LONG TERM DEBTS	
NCRPB	29,81,94,000
NOIDA	
UPSIDC	1,29,18,750
HDFC	1,18,31,653 47,30,667
Greater NOIDA	6,08,01,000
IDBI	14,40,00,000
REC	2,56,58,00,000
PFC	45,39,00,000
Financial Participation by Consumers	- 43,39,00,000
Interest Accrued & Due on Financial Participation by Consumers	-
Total Long Term Loans	3,55,21,76,070
CURRENT LIABILITIES & . PROVISIONS	3,44,65,64,864
TOTAL LIABILITIES	17,81,50,71,262

SCHEDULE -'C' - PART I

ZONE III DISTRIBUTION UNDERTAKINGS

I. DISTRIBUTION ASSETS:

All 33 kV, 11 kV, LT. (Single phase 2 wire to 3 phase 5 wire) lines (with overhead lines, Aerial Bunched cables and underground cables), and lines above 33 kV directly going to consumers from transmission Grid sub-stations, on different types of supports with various sizes of conductors and step up/step down transformers, breakers, protective and metering devices and control rooms, testing laboratories, lands (including right of way), buildings, roads, diesel generating sets or other conventional and non-conventional generating units, service connections and installations inside consumer's premises, street lighting and signal systems owned by or leased to the UPPCL but excluding fittings, fixtures and installations owned, by private persons or local authorities.

II. GENERAL ASSETS/LIABILITIES:

Special tools and equipment, material handling equipment, earth movers, bulldozers, concrete mixtures, cranes, trailers, heavy and light vehicles, furniture, fixtures, office equipment, air conditioners, refrigerators, computers and signal systems, spares, consumables, raw materials, lands and civil works installations including roads, buildings, schools, dispensaries, testing laboratories and equipment, training centers, workshops, works in progress, machineries and equipment sent for repairs, scrap and obsolete materials.

III. OTHER ASSETS:

Other assets and movable properties including plant and machinery, motor car, jeeps, trucks, cranes, trailers and other vehicles, furniture, fixtures, air conditioners, computers, etc. to the extent they are utilized and operated by or associated with the assets referred to under clauses 1, and 11 above shall also form part of Distribution Undertakings.

IV. MISCELLANEOUS:

 Contracts, agreements, interest and arrangements to the extent they are associated with or related to distribution activities or to the Undertakings or assets referred to in clauses I, II, and III above.

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- Loans, secured and unsecured to the extent they are associated with or related to distribution activities or to the Undertakings or assets referred to in clauses I, II, and III above.
- Cash and bank balance to the extent they are associated with or related to distribution activities or the Undertakings or assets referred to in clauses I, II, and
- Other Current Assets to the extent they are associated with or related to distribution activities or to the Undertakings or assets referred to in clauses I, II, and III above.
- Other Current liabilities and provisions to the extent they are associated with or related to distribution activities or to the Undertakings or Assets referred to in clauses I, II, and III above.
- Contingent liabilities to the extent they are recognised and are associated with or related to distribution activities or to the Undertakings or Assets referred to in clauses I, II, and III above.
- Share capital of the U.P. Power Corporation Ltd. to the extent required to match the assets and liabilities referred in clauses I, II and III above.
- Other liabilities to the extent they are associated with or related to distribution activities or to the Undertakings or Assets referred to in clauses I, II, and III above.
- Proceedings to the extent they are associated with or related to distribution activities or to the Undertakings or Assets referred to in clauses I, II, and III above.
- V. In consideration of the transfer as mentioned above, the UPPCL shall be issued 1,40,11,018 shares of face value of Rs 1000/- each in the Meerut Discom.

SCHEDULE - 'C' - PART II

Aggregate Assets and Liabilities to be vested in the Meerut Discom

BALANCE SHEET	AMOUNT IN RUPEES
AUGUST 11th 2003	
FIXED ASSETS	
Gross Fixed Assets	22.51.25.25
Less Accumulated depreciation	22,54,27,98,954
Net Fixed Assets	9,93,94,90,193
Cap. Expd. In progress	12,60,33,08,761
Total Fixed Assets	27,67,22,383
-	12,88,00,31,144
CURRENT ASSETS	
Cash and Bank Balances	777 65 60
Total stocks	77,65,60,521
Less Provision for Obsolete	1,96,12,33,771
Stores	48,93,68,629
Net Stock	1.45.10.550.55
Gross Receivable for Sale of	1,47,18,65,142
Electricity	16,93,04,33,179
Provision for Bad & Doubtful	9,06,03,18,084
debts	7,00,03,18,084
Net Receivables for Sale of Power	7 97 01 15 005
Other Current Assets	7,87,01,15,095
Loans & Advances	20,34,73,848
Inter Unit Transfers	2,11,32,391
Total Current Assets	(18,11,58,882)
1	10,16,19,88,115
TOTAL ASSETS	23,04,20,19,259
	45,04,20,19,259
NET WORTH .	
Paid up and Subscribed Share	14.01.10.19.000
Capital	14,01,10,18,000
Consumers Contribution towards	1,09,57,45,966
Service Connection Charges	1,09,37,45,900
Subsidies towards Cost of Capital	76,88,44,168
Assets	70,00,44,108
Total Net Worth	15,87,56,08,134
8. 6.	15,07,50,00,134

LONG TERM DEBTS	
NCRPB	9,93,98,000
NOIDA	43,06,250
UPSIDC	1,19,07,134
HDFC	
Greater NOIDA	15,76,889
IDBI	2,02,67,000
REC	14,96,00,000
PFC	2,56,58,00,000
Financial Participation by	48,90,00,000
Consumers	37,60,035
Interest Accrued & Due on Financial Participation by Consumers	6,796
Total Long Term Loans	3,34,56,22,104
CURRENT LIABILITIES & PROVISIONS	3,82,07,89,021
TOTAL LIABILITIES	23,04,20,19,259



SCHEDULE -'D' - PART I

ZONE IV DISTRIBUTION UNDERTAKINGS

I. DISTRIBUTION ASSETS:

All 33 kV, 11 kV, LT. (Single phase 2 wire to 3 phase 5 wire) lines (with overhead lines, Aerial Bunched cables and underground cables), and lines above 33 kV directly going to consumers from transmission Grid sub-stations, on different types of supports with various sizes of conductors and step up/step down transformers, lands (including right of way), buildings, roads, diesel generating laboratories, conventional and non-conventional generating units, service connections and or leased to the UPPCL but excluding fittings, fixtures and installations owned by private persons or local authorities.

II. GENERAL ASSETS/LIABILITIES:

Special tools and equipment, material handling equipment, earth movers, bulldozers, concrete mixtures, cranes, trailers, heavy and light vehicles, furniture, fixtures, office equipment, air conditioners, refrigerators, computers and signal systems, spares, consumables, raw materials, lands and civil works installations including roads, buildings, schools, dispensaries, testing laboratories and equipment, training centers, workshops, works in progress, machineries and equipment sent for repairs, scrap and obsolete materials.

III. OTHER ASSETS:

Other assets and movable properties including plant and machinery, motor car, jeeps, trucks, cranes, trailers and other vehicles, furniture, fixtures, air conditioners, computers, etc. to the extent they are utilized and operated by or associated with the assets referred to under clauses I, and II above shall also form part of Distribution Undertakings.

IV. MISCELLANEOUS:

 Contracts, agreements, interest and arrangements to the extent they are associated with or related to distribution activities or to the Undertakings or assets referred to in clauses I, II, and III above.

- Loans, secured and unsecured to the extent they are associated with or related to distribution activities or to the Undertakings or assets referred to in clauses I, II, and III above.
- Cash and bank balance to the extent they are associated with or related to distribution activities or the Undertakings or assets referred to in clauses I, II, and III above.
- Other Current Assets to the extent they are associated with or related to distribution activities or to the Undertakings or assets referred to in clauses I, II, and III above.
- Other Current liabilities and provisions to the extent they are associated with or related to distribution activities or to the Undertakings or Assets referred to in clauses I, II, and III above.
- Contingent liabilities to the extent they are recognised and are associated with or related to distribution activities or to the Undertakings or Assets referred to in clauses I, II, and III above.
- Share capital of the U.P. Power Corporation Ltd. to the extent required to match the assets and liabilities referred in clauses I, II and III above.
- Other liabilities to the extent they are associated with or related to distribution activities or to the Undertakings or Assets referred to in clauses I, II, and III above.
- Proceedings to the extent they are associated with or related to distribution activities or to the Undertakings or Assets referred to in clauses I, II, and III above.

V. In consideration of the transfer as mentioned above, the UPPCL shall be issued 1,45,70,206 shares of face value of Rs 1000/- each in the Varanasi Discom.

SCHEDULE - 'D' - PART II

Aggregate Assets and Liabilities to be vested in the Varanasi Discom

BALANCE SHEET	AMOUNT IN RUPEES
AUGUST 11 th 2003	
FIXED ASSETS	
Gross Fixed Assets	17,16,05,10,719
Less Accumulated depreciation	7,56,04,74,605
Net Fixed Assets	9,60,00,36,114
Cap. Expd. In progress	12,99,28,746
Total Fixed Assets	9,72,99,64,860
CURRENT ASSETS	
Cash and Bank Balances	96,04,64,658
Total stocks	2,52,38,38,129
Less Provision for Obsolete - Stores	62,97,50,121
Net Stock	1,89,40,88,008
Gross Receivable for Sale of Electricity	20,56,67,88,027
Provision for Bad & Doubtful debts	11,00,63,12,687
Net Receivables for Sale of Power	9,56,04,75,340
Other Current Assets	27,38,45,959
Loans & Advances	76,03,472
Inter Unit Transfers	(17,48,13,927)
Total Current Assets	12,52,16,63,510
TOTAL ASSETS	22,25,16,28,370
NET WORTH	
Paid up and Subscribed Share Capital	14,57,02,06,000
Consumers Contribution towards Service Connection Charges	97.61,37,732
Subsidies towards Cost of Capital Assets	58,52,75,973
Total Net Worth	16,13,16,19,705

LONG TERM DEBTS	
NCRPB	
NOIDA •	27,52,56,000
UPSIDC	1,19,25,000
HDFC .	1,31,14,831
Greater NOIDA	43,66,770
IDBI	5,61,24,000
REC	15,76,00,000
PFC	2,87,37,00,000
	48,50,00,000
Financial Participation by Consumers	1,58,019
Interest Accrued & Due on Financial Participation by Consumers	6,472
Total Long Term Loans	3,87,72,51,092
CURRENT LIABILITIES & PROVISIONS	2,24,27,57,573
TOTAL LIABILITIES	22,25,16,28,370

उत्तर प्रदेश शासन ऊर्जा अनुभाग-2

अधिसूचना

संख्या 1528/24-पी-2-2015 एसए.(218)/2014 लखनऊ, दिनांक ्रे नवम्बर,2015

उत्तर प्रदेश ऊर्जा क्षेत्र सुधार (वितरण उपक्रमों का अन्तरण) स्कीम, 2003 (अधिसूचना संख्या 2740/पी-1/2003-24-14पी/2003 दिनांक 12 अगस्त, 2003) के खण्ड 7 के साथ पिठत विद्युत अधिनियम, 2003 (अधिनियम संख्या 36, सन् 2003) की धारा 131 की उपधारा (4) तथा उत्तर प्रदेश विद्युत सुधार अधिनियम, 1999 (उत्तर प्रदेश अधिनियम संख्या 24, सन् 1999) की धारा 23 की उपधारा (4) के अधीन प्रदत्त शक्ति का प्रयोग करके एतद्द्यारा राज्यपाल सम्पत्तियों, हितों, अधिकारों, दांयित्वों, कार्मिकों तथा कार्यवाहियों के अन्तरण के सम्बन्ध में अधिसूचना संख्या 2740/पी-1/2003-24-14पी/2003 दिनांक 12 अगस्त, 2003 की अनुसूची क से घ के स्थान पर इस अधिसूचना के साथ संलग्न अनुसूची क से घ के प्रतिस्थापन द्यारा इस अधिसूचना के माध्यम से उक्त उत्तर प्रदेश ऊर्जा क्षेत्र सुधार (वितरण उपक्रमों का अन्तरण) स्कीम, 2003 की निबन्धन एवं शतों में उपान्तरण, फैर-बदल और अन्यथा परिवर्तन करते हैं।

2. उत्तर प्रदेश ऊर्जा क्षेत्र सुधार (वितरण उपक्रमों का अन्तरण) स्कीम, 2003 (अधिसूचना संख्या 2740/पी-1/2003-24-14पी/2003 दिनांक 12 अगस्त, 2003) के अधीन सामयिकता अविध की प्रभावी तिथि, जैसा कि उत्तर प्रदेश ऊर्जा क्षेत्र सुधार (वितरण उपक्रमों का अन्तरण) (छठा संशोधन) स्कीम, 2008 (अधिसूचना संख्या 2131/पी-2-2008-24-61 (एम) ई/2000 लखनऊ दिनांक 10 अक्तूबर, 2008) द्वारा विस्तारित की गयी थी, दिनांक 11 दिसम्बर, 2009 को समाप्त हो गयी। एतद्वारा राज्यपाल निम्नानुसार सामयिकता अविध हेतु उत्तर प्रदेश ऊर्जा क्षेत्र सुधार (वितरण उपक्रमों का अन्तरण) स्कीम, 2003 (अधिसूचना संख्या 2740/पी-1/2003-24-14पी/2003 दिनांक 12 अगस्त, 2003) की निबन्धन एवं शर्तों में उपान्तरण, फेर-बदल और अन्यथा परिवर्तन करते है:-

उत्तर प्रदेश ऊर्जा क्षेत्र सुधार (वितरण उपक्रमों का अन्तरण) स्कीम, 2003 के खण्ड 7 के उपखण्ड (1), (2) एवं (3) के स्थान पर निम्नवत प्रतिस्थापित होंगे:-

(1) खण्ड 3 के अधीन उपक्रमों का वर्गीकरण और अन्तरण, जब तक कि राज्य सरकार द्वारा दिये गये किसी आदेश में अन्यथा विनिर्दिष्ट न हो, अनन्तिम होगा और अधिसूचना संख्या 2740/पी-1/2003-24-14पी/2003 दिनांक 12 अगस्त, 2003 के निर्गमन की तिथि से तेरह वर्षों के अवसान पर अन्तिम होगा।

केस्को, कानपुर

- (2) अधिसूचना संख्या 2740/पी-1/2003-24-14पी/2003 दिनांक 12 अगस्त, 2003 के निर्गमन की तिथि से तेरह वर्षों की अविध के भीतर किसी भी समय राज्य सरकार, अधिसूचित किये जाने वाले आदेश से, अन्तरण को, जिसमें अन्तरण में सिम्मिलित मर्दे या उनके मूल्य सिम्मिलित हों, संशोधित, परिवर्तित, उपान्तरित, परिवर्धित, विलोपित या अन्यथा उसके निबन्धन और शर्तों में परिवर्तन कर सकती है, और ऐसी सम्पित्तयों, हितों, अधिकारों और दायित्वों को जो एक अन्तरिती के उपक्रम का भाग हों, किसी अन्य अन्तरिती को या राज्य सरकार को ऐसी रीति से और ऐसे निबन्धन और शर्तों पर, जिसे राज्य सरकार समुचित समझे, अन्तरित कर सकती है। ऐसे आदेशों के पारित होने पर सुसंगत अनुसूची तद्नुसार संशोधित हो जायेगी।
- (3) अधिसूचना संख्या 2740/पी-1/2003-24-14पी/2003 दिनांक 12 अगस्त, 2003 के निर्गमन की तिथि से तेरह वर्षों की अविध के अवसान पर या वह तिथि जिस पर अन्तिम अन्तरण स्कीम गजट में प्रकाशित होती है, इनमें जो भी पहले हो, राज्य सरकार द्वारा दिये गये किन्हीं निदेशों के अधीन रहते हुए उपक्रमों, सम्पत्तियों, हितों, अधिकारों और दायित्यों का इस स्कीम के अनुसार किया गया अन्तरण, अन्तिम हो जायेगा।
- 3. उत्तर प्रदेश ऊर्जा क्षेत्र सुधार (वितरण उपक्रमों का अन्तरण) स्कीम, 2003 उपरोक्त उपान्तरणों सहित सभी अभिप्रायों एवं प्रयोजनों के लिए अन्तरण की प्रभावी तिथि, अर्थात दिनांक 12 अगस्त, 2003 से, प्रभावी होगी।
- 4. इस अधिसूचना में अन्तर्विष्ट किसी अन्य बात के होते हुये भी, कार्मिकों के अन्तरण पर पूर्वगामी प्रावधान लागू नहीं होंगे।

आज्ञा से,

(संजय अग्रकार्ल) प्रमुख सचिव

अनुसूची-'क' - भाग- एक (जोन- I वितरप उपक्रमा)

एकः वितरण आस्तियां

विभिन्न आकार के कन्डक्टरों और स्टेप-अप और स्टेप-डाउन ट्रांसफार्मरों, ब्रेकरों, संरक्षण और मीटरमापी युक्तियों के साथ विभिन्न प्रकार के अवलम्बों पर शीर्षस्थ लाइनें, एरियल बंच्ड और भूमिगत केबिलों पर 33 के0वी0, 11 के0वी0, एल0टी0 (एकल फेज के 2 वायर से 3 फेज के 5 वायर) की समस्त लाइनें एवं 33 के0वी0 से ऊपर की लाइनें जो पारेषण ग्रिंड उप-संस्थान से सीधे उपभोक्ता को जा रही हैं, और नियन्त्रण कक्ष, परीक्षण प्रयोगशालायें, भूमि (मार्ग के अधिकार सिहत), भवनों, सड़कें, डीजल उत्पादक सेट्स या अन्य परम्परागत और अपारम्परिक उत्पादन इकाईयां, उपभोक्ता परिसरों के भीतर सेवा संयोजन और प्रतिष्ठापन, उ0प्र0पा0का0लि0 के स्वामित्वाधीन या उसे पट्टे पर दी गयी मार्ग प्रकाश और सिग्नल प्रणालियां, किन्तु इसके अन्तर्गत निजी व्यक्तियों या स्थानीय प्राधिकारियों के स्वामित्वाधीन फिटिंग्स, फिक्स्वर्स और प्रतिष्ठापन नहीं

दोः सामान्य आस्तियां/दायित्व

विशेष उपकरणों और उपस्कर सामग्री, प्रयुक्त उपस्कर, मिट्टी हटाने का यन्त्र, बुलडोजर्स, कंकीट मिक्स्वर्स, क्रेन्स, ट्रेलर्स, भारी और हल्के वाहनों, फर्नीचर, फिक्स्वर्स, कार्यालय उपस्कर, वातानुकूलक, रेफ्रीजिरेटर्स, कम्प्यूटर्स और सिग्नल प्रणाली, फालतू पुर्जे, उपभोज्य सामग्री, कच्चे माल, भूमि और सिविल संकर्म, प्रतिष्ठान जिसके अन्तर्गत सङ्कों, भवनों, विद्यालयों, चिकित्सालयों, परीक्षण प्रयोगशालायें और उपस्कर, प्रशिक्षण केन्द्रों, कार्यशालाओं, चालू संकर्मों, मरम्मत के लिए भेजी गयी मशीनरी और उपस्कर, रद्दी माल और पुरानी सामग्री भी सिम्मिलित है।

तीनः अन्य आस्तियां

अन्य आस्तियां और जंगम सम्पत्तियां, संयंत्र और मशीनरी, मोटरकार, जीपें, ट्रकें, क्रेन्स, ट्रेलर्स और अन्य वाहनों, फर्नीचर, फिक्सर, वातानुकूलक, कम्प्यूटर्स आदि को सम्मिलित करते हुये जिस सीमा तक वे ऊपर खण्ड-एक और दो के अधीन निर्दिष्ट आस्तियों द्वारा उससे प्रयुक्त और प्रचालित या सहयुक्त हैं, भी वितरण उपक्रमों के भाग होंगे।

चारः विविध

 उस सीमा तक संविदायें, करारों, हित और व्यवस्थायें जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।

केस्को, कानपुर

- उस सीमा तक प्रतिभूत और अप्रतिभूत ऋण जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- उस सीमा तक नकद और बैंक अवशेष जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण किया-कलापों या उपअमों वा आस्तियों से सम्बद्ध या सम्बन्धित हों।
- 4. उस सीमा तक अन्य चालू आस्तियां जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- 5. उस सीमा तक अन्य चालू दायित्व और उपबन्ध जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- ठस सीमा तक आकस्मिक दायित्व जिस सीमा तक वे ऊपर खण्ड एक, दों और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से मान्यता प्राप्त हों और उससे सम्बद्ध या
- 7. उस सीमा तक उ०प्र० पावर कारपोरेशन लिमिटेड की शेयर पूंजी जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट आस्तियों और दायित्वों के अनुरूप होगी।
- 8. उस सीमा तक अन्य दायित्व जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्टं वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- 9. उस सीमा तक कार्यवाहियां जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।

पांचः ऊपर यथा उल्लिखित अन्तरण के प्रतिफल स्वरूप उ०प्र०पा०का०लि० को 1000 रूपये प्रत्येक के अंकित मूल्य के 1,34,85,019 शेयर आगरा डिस्काम द्वारा जारी किये जाएंगे।

अनुसूची 'क'-भाग-दो

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आगरा डिस्काम में निहित की

तुलन पत्र 11 अगस्त, 2003	थनराशि
स्थिर आस्तियां	(खपये मे)
सकल स्थिर आस्तियां	
TTTTT -'0	14,94,14,59,182
थटाइए : सचित अवक्षयण (इास) शुद्ध स्थिर आस्तियां	6,58,28,18,224
प्रगतिशील पूंजीगत कार्य	8,35,86,40,958
कुल स्थिर आस्तियां	40,36,86,837
चालू आस्तियां	8,76,23,27,795
नकद और बैंक अवशेष	***
कुल भण्डार	46,87,30,472
घटायें-अप्रचलित भण्डार हेतु प्रावधान	2,35,58,14,347
शुद्ध भण्डार	58,78,24,692
विद्युत विक्रय से सकल प्राप्य	1,76,79,89,655
ं हबत और शंकामार कम ने २ २	17,14,84,56,418
्र्वत और शंकास्पद ऋण के लिये प्रावधान विद्युत विक्रय से शुद्ध प्राप्य	9,17,69,93,179
अन्य चालू आस्तियां	7,97,14,63,239
ऋण एवं अग्रिम	11,21,37,428
अन्तर इकाई अन्तरण	2,36,00,125
हुल चालू आस्तियां	87,52,42,424
हुल आस्तियां	11,21,91,63,343
पुरं पूर्य	19,98,14,91,138
भटन और अधिक के ' ०	
प्रदत्त और अभिदत्त अंश पूंजी.	13,48,50,19,000
सेवा संयोजन प्रभार हेतु उपभोक्ता अंशदान	86,96,62,102
पूंजीगत आस्तियों की लागत हेतु सहायिकी	50,95,93,053
रुल शुद्ध मूल्य ोर्घ कालिक ऋण	14,86,42,74,155
एन०सी०आर०पी०बी०	9,17,52,000
नोयडा	39,75,000
यू0पी0एस0आई०डी०सी0	1,03,22,032
एच0डी0एफ0सी0	14,55,590
ग्रेटर नोयडा	1,87,08,000
आई0डी0बी0आई0	12,49,00,000

आर0ई0सी0	
पी0एफ0सी0	2,25,79,00,000
	38,78,00,000
उपभोक्ताओं द्वारा वित्तीय भागीदारी	(55,01,616)
उपभोक्ताओं द्वारा वित्तीय भागीदारी पर उपार्जित एवं देय ब्याज	
कुल दीर्घकालिक ऋण	
चालू दायित्व व प्रावधान	2,89,13,11,006
कुल दायित्व	2,22,59,05,977
सुरा सामाप	19,98,14,91,138

अनुसूची-'ख' - भाग- एक (जोन- 11 वितरण उपक्रमों)

एकः वितरण आस्तियां

विभिन्न आकार के कन्डक्टरों और स्टेप-अप और स्टेप-डाउन ट्रांसफार्मरों, ब्रेकरों, संरक्षण और मीटरमापी युक्तियों के साथ विभिन्न प्रकार के अवलम्बों पर शीर्षस्थ लाइनें, एरियल बंच्ड और भूमिगत केबिलों पर 33 के0वी0, 11 के0वी0, एल0टी0 (एकल फेज के 2 वायर से 3 फेज के 5 वायर) की समस्त लाइनें एवं 33 के0वी0 से ऊपर की लाइनें जो पारेषण ग्रिंड उप-संस्थान से सीधे उपभोक्ता को जा रहीं हैं, और नियन्त्रण कक्ष, परीक्षण प्रयोगशालायें, भूमि (मार्ग के अधिकार सिहत), भवनों, सड़कें, डीजल उत्पादक सेट्स या अन्य परम्परागत और अपारम्परिक उत्पादन इकाईयां, उपभोक्ता परिसरों के भीतर सेवा संयोजन और प्रतिष्ठापन, उ0प्र0पा0का0लि0 के स्वामित्वाधीन या उसे पट्टे पर दी गयी मार्ग प्रकाश और सिग्नल प्रणालियां, किन्तु इसके अन्तर्गत निजी व्यक्तियों या स्थानीय प्रधिकारियों के स्वामित्वाधीन फिटिंग्स, फिक्स्वर्स और प्रतिष्ठापन नहीं हैं।

दोः सामान्य आस्तियां/दायित्व

विशेष उपकरणों और उपस्कर सामग्री, प्रयुक्त उपस्कर, मिट्टी हटाने का यन्त्र, बुलडोजर्स, कंकीट मिक्स्वर्स, क्रेन्स, ट्रेलर्स, भारी और हल्के वाहनों, फर्नीचर, फिक्स्वर्स, कार्यालय उपस्कर, वातानुकूलक, रेफ्रीजिरेटर्स, कम्प्यूटर्स और सिग्नल प्रणाली, फालतू पुर्जे, उपभोज्य सामग्री, कच्चे माल, भूमि और सिविल संकर्म, प्रतिष्ठान जिसके अन्तर्गत सड़कों, भवनों, विद्यालयों, चिकित्सालयों, परीक्षण प्रयोगशालायें और उपस्कर, प्रशिक्षण केन्द्रों, कार्यशालाओं, चालू संकर्मो, मरम्मत के लिए भेजी गयी मशीनरी और उपस्कर, रद्दी माल और पुरानी सामग्री भी सिम्मिलत है।

तीनः अन्य आस्तियां

अन्य आस्तियां और जंगम सम्पित्तियां, संयंत्र और मशीनरी, मोटरकार, जीपें, ट्रकें, क्रेन्स, ट्रेलर्स और अन्य वाहनों, फर्नीचर, फिक्सर, वातानुकूलक, कम्प्यूटर्स आदि को सम्मिलित करते हुये जिस सीमा तक वे ऊपर खण्ड-एक और दो के अधीन निर्दिष्ट आस्तियों द्वारा उससे प्रयुक्त और प्रचालित या सहयुक्त हैं, भी वितरण उपक्रमों के भाग होंगे।

चारः विविध

 उस सीमा तक संविदायें, करारों, हित और व्यवस्थायें जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।

- 2. उस सीमा तक प्रतिभूत और अप्रतिभूत ऋण जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- 3. उस सीमा तक नकद और बैंक अवशेष जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- 4. उस सीमा तक अन्य चालू आस्तियां जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-फलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- उस सीमा तक अन्य चालू दायित्व और उपबन्ध जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- 6. उस सीमा तक आकस्मिक दायित्व जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से मान्यता प्राप्त हों और उससे सम्बद्ध या
- 7. उस सीमा तक उ०प्र० पावर कारपोरेशन लिमिटेड की शेयर पूंजी जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट आस्तियों और दायित्वों के अनुरूप होगी।
- उस सीमा तक अन्य दायित्व जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- 9. उस सीमा तक कार्यवाहियां जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।

पांचः ऊपर यथा उल्लिखित अन्तरण के प्रतिफल स्वरूप उ०प्र०पा०का०लि० को 1000 रूपये प्रत्येक के अंकित मूल्य के 95,53,885 शेयर लखनऊ डिस्काम द्वारा जारी किये जाएंगे।

अनुसूची 'ख'-भाग-दो

लखनऊ डिस्काम में निहित की जाने वाली कुल आस्तियां व दायित्व

तुलन पत्र	धनराशि
11 अगस्त, 2003 स्थिर आस्तियां	(रूपये मे)
	(3.1.1)
सकल स्थिर आस्तियां	15,82,22,87,76
घटाइए : संचित अवक्षयण (इास)	6,97,08,88,385
शुद्ध स्थिर आस्तियां	8,85,13,99,382
प्रगतिशील पूंजीगत कार्य	
कुल स्थिर आस्तियां	63,93,70,524
चालू आस्तियां	9,49,07,69,906
नकद और बैंक अवशेष	(2.10.
कुल भण्डार	62,10,30,135
घटायें-अप्रचलित भण्डार हेतु प्रावधान	1,65,50,80,228
शुख भण्डार	41,21,52,020
विद्युत विक्रय से सकल प्राप्य	1,24,29,28,208
डूबत और शंकास्पद ऋण के लिये पारकार	11,22,10,32,907
विद्युत विक्रय से शुद्ध प्राप्य	6,00,49,33,618
अन्य चालू आस्तियां	5,21,60,99,289
ऋण एवं अग्रिम	10,70,55,644
अन्तर इकाई जन्तरण	2,12,48,653
कुल चालू आस्तियां	1,11,59,39,427
कुल आस्तियां	8,32,43,01,356
शुद्ध मूल्य	17,81,50,71,262
प्रदत्त और अभिदत्त अंश पूंजी	
सेवा संगोजन पश्चर के	9,55,38,85,000
सेवा संयोजन प्रभार हेतु उपभोक्ता अंशदान	72,28,10,756
के वाराचा का लागत हत सहाविकी	53,96,34,572
हुल शुद्ध मूल्य ीर्घ कालिक ऋण	10,81,63,30,328
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
एन0सी0आर0पी0बी0	29,81,94,000
नोयडा	1,29,18,750
यू0पी0एस0आई0डी0सी0	1,18,31,653
एच0डी0एफ0सी0	
ग्रेटर नोयडा	47,30,667
आई0डी0बी0आई0	6,08,01,000
	14,40,00,000

आर0ई0सी0	
पी0एफ0सी0	2,56,58,00,000
उपभोक्ताओं द्वारा वित्तीय भागीदारी	45,39,00,000
उपभोक्ताओं द्वारा वित्तीय भागीदारी पर उपार्जित	
एवं देय ब्याज	-
कुल दीर्घकालिक ऋण	
चालू दायित्व व प्रावधान	3,55,21,76,070
कुल दायित्व	3,44,65,64,864
@" 311117	17,81,50,71,262

अनुसूची-'ग' - भाग- एक (जोन- III वितरण उपक्रमों)

एकः वितरण आस्तियां

विभिन्न आकार के कन्डक्टरों और स्टेप-अप और स्टेप-डाउन ट्रांसफार्मरों, ब्रेकरों, संरक्षण और मीटरमापी युक्तियों के साथ विभिन्न प्रकार के अवलम्बों पर शीर्षस्थ लाइनें, एरियल बंच्ड और भूमिगत केबिलों पर 33 के0वी0, 11 के0वी0, एल0टी0 (एकल फेज के 2 वायर से 3 फेज के 5 वायर) की समस्त लाइनें एवं 33 के0वी0 से ऊपर की लाइनें जो पारेषण ग्रिंड उप-संस्थान से सीधे उपभोक्ता को जा रही हैं, और नियन्त्रण कक्ष, परीक्षण प्रयोगशालायें, भूमि (मार्ग के अधिकार सिंहत), भवनों, सड़कें, डीजल उत्पादक सेट्स या अन्य परम्परागत और अपारम्परिक उत्पादन इकाईयां, उपभोक्ता परिसरों के भीतर सेवा संयोजन और प्रतिष्ठापन, उ0प्र0पा0का0लि0 के स्वामित्वाधीन या उसे पट्टे पर दी गयी मार्ग प्रकाश और सिग्नल प्रणालियां, किन्तु इसके अन्तर्गत निजी व्यक्तियों या स्थानीय प्राधिकारियों के स्वामित्वाधीन फिटिंग्स, फिक्स्चर्स और प्रतिष्ठापन नहीं

दोः सामान्य आस्तियां/दायित्व

विशेष उपकरणों और उपस्कर सामग्री, प्रयुक्त उपस्कर, मिट्टी हटाने का यन्त्र, बुलडोजर्स, कंक्रीट मिक्स्चर्स, क्रेन्स, ट्रेलर्स, भारी और हल्के वाहनों, फर्नीचर, फिक्स्चर्स, कार्यालय उपस्कर, वातानुकूलक, रेफ्रीजिरेटर्स, कम्प्यूटर्स और सिग्नल प्रणाली, फालतू पुर्जे, उपभोज्य सामग्री, कच्चे माल, भूमि और सिविल संकर्म, प्रतिष्ठान जिसके अन्तर्गत सड़कों, भवनों, विद्यालयों, चिकित्सालयों, परीक्षण प्रयोगशालायें और उपस्कर, प्रशिक्षण केन्द्रों, कार्यशालाओं, चांलू संकर्मों, मरम्मत के लिए भेजी गयी मशीनरी और उपस्कर, रद्दी माल और पुरानी सामग्री भी सिम्मिलत है।

तीनः अन्य आस्तियां

अन्य आस्तियां और जंगम सम्पित्तियां, संयंत्र और मशीनरी, मोटरकार, जीपें, ट्रकें, क्रेन्स, ट्रेलर्स और अन्य वाहनों, फर्नीचर, फिक्सर, वातानुकूलक, कम्प्यूटर्स आदि को सम्मिलित करते हुये जिस सीमा तक वे ऊपर खण्ड-एक और दो के अधीन निर्दिष्ट आस्तियों द्वारा उससे प्रयुक्त और प्रचालित या सहयुक्त हैं, भी वितरण उपक्रमों के भाग होंगे।

चारः विविध

 उस सीमा तक संविदायें, करारों, हित और व्यवस्थाये जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।

- उस सीमा तक प्रतिभूत और अप्रतिभूत ऋण जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- उस सीमा तक नकद और बैंक अवशेष जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- 4. उस सीमा तक अन्य चालू आस्तियां जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- उस सीमा तक अन्य चालू दायित्व और उपबन्ध जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- 6. उस सीमा तक आकस्मिक दायित्व जिस. सीमा तक ये ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से मान्यता प्राप्त हों और उससे सम्बद्ध या सम्बन्धित हों।
- 7. उस सीमा तक उ०प्र० पावर कारपोरेशन लिमिटेड की शेयर पूंजी जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट आस्तियों और दायित्वों के अनुरूप होगी।
- उस सीमा तक अन्य दायित्व जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण किया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- 9. उस सीमा तक कार्यवाहियां जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।

पांचः ऊपर यथा उल्लिखित अन्तरण के प्रतिफल स्वरूप उ०प्र०पा०का०लि० को 1000 रूपये प्रत्येक के अंकित मूल्य के 1,40,11,018 शेयर मेरठ डिस्काम द्वारा जारी किये जाएंगे।

अनुसूची 'ग'-माग-दो

मेरठ डिस्काम में निहित की जाने वाली कुल आस्तियां व दायित्व

तुलन पत्र 11 अगस्त, 2003	धनराशि
स्थिर आस्तियां	(रूपये मे)
सकल स्थिर आस्तियां	22.54.25
घटाइए : संचित अवक्षयण (इास)	22,54,27,98,95
शुद्ध स्थिर आस्तियां	9,93,94,90,19
प्रगतिशील पूंजीगत कार्य	12,60,33,08,76
कुल स्थिर आस्तियां	27,67,22,383
चालू आस्तियां	12,88,00,31,144
नकद और बैंक अवशेष	
कुल भण्डार	77,65,60,521
घटायें-अप्रचलित भण्डार हेतु प्रावधान	1,96,12,33,771
शुद्ध भण्डार	- 48,93,68,629
विद्युत विक्रय से सकल प्राप्य	1,47,18,65,142
डूबत और शंकास्पद ऋण के लिये प्रावधान	16,93,04,33,179
विद्युत विक्रय से शुद्ध प्राप्य	9,06,03,18,084
अन्य चालू आस्तियां	7,87,01,15,095
ऋण एवं अग्रिम	20,34,73,848
अन्तर इकाई अन्तरण	2,11,32,391
कुल चालू आस्तियां	(18,11,58,882)
कुल आस्तियां	10,16,19,88,115
शुद्ध मूल्य	23,04,20,19,259
प्रदत्त और अभिदत्त अंश पूंजी	14,01,10,18,000
- सेवा संयोजन प्रभार हेतु उपभोक्ता अंशदान	1,09,57,45,966
पूजानत जास्तया का लागत हेत् सहायिकी	76,88,44,168
कुल शुद्ध मूल्य रीर्घ कालिक ऋण	15,87,56,08,134
एन०सी०आर०पी०बी०	9,93,98,000
नोयडा	43,06,250
यू०पी०एस०आई०डी०सी०	1,19,07,134
एच0डी0एफ0सी0	15,76,889
ग्रेटर नोयडा	2,02,67,000
आई०डी०बी०आई०	14,96,00,000

आर0ई0सी0	
पी0एफ0सी0	2,56,58,00,000
उपभोक्ताओं द्वारा वित्तीय भागीदारी	48,90,00,000
उपभोक्ताओं द्वारा वित्तीय भागीदारी पर उपार्जित	37,60,035
एवं देय ब्याज	6,796
कुल दीर्घकालिक ऋण	
चालू दायित्व व प्रावधान	3,34,56,22,104
कुल दायित्व	3,82,07,89,021
	23,04,20,19,259

अनुसूची-'घ' - भाग- एक (जोन- IV वितरण उपक्रमों)

एकः वितरण आस्तियां

विभिन्न आकार के कन्डक्टरों और स्टेप-अप और स्टेप-डाउन ट्रांसफार्मरों, ब्रेकरों, संरक्षण और मीटरमापी युक्तियों के साथ विभिन्न प्रकार के अवलम्बों पर शीर्षस्थ लाइनें, एरियल बंच्ड और भूमिगत केबिलों पर 33 के0वी0, 11 के0वी0, एल0टी0 (एकल फेज के 2 वायर से 3 फेज के 5 वायर) की जमस्त लाइनें एवं 33 के0वी0 से ऊपर की लाइनें जो पारेषण ग्रिड उप-संस्थान से सीधे उपभोक्ता को जा रही हैं, और नियन्त्रण कक्ष, परीक्षण प्रयोगशालायें, भूमि (मार्ग के अधिकार सिहत), भवनों, सड़कें, डीजल उत्पादक सेट्स या अन्य परम्परागत और अपारम्परिक उत्पादन इकाईयां, उपभोक्ता परिसरों के भीतर सेवा संयोजन और प्रतिष्ठापन, उ०प्र0पा0का0लि0 के स्वामित्वाधीन या उसे पट्टे पर दी गयी मार्ग प्रकाश और सिभ्नल प्रणालियां, किन्तु इसके अन्तर्गत निजी व्यक्तियों या स्थानीय प्राधिकारियों के स्वामित्वाधीन फिटिंग्स, फिक्स्वर्स और प्रतिष्ठापन नहीं

दोः सामान्य आस्तियां/दायित्व

विशेष उपकरणों और उपस्कर सामग्री, प्रयुक्त उपस्कर, मिट्टी इटाने का यन्त्र, बुलडोजर्स, कंक्रीट मिक्स्वर्स, क्रेन्स, ट्रेलर्स, भारी और हल्के वाहनों, फर्नीचर, फिक्स्वर्स, कार्यालयं उपस्कर, वातानुकूलक, रेफ्रीजिरेटर्स, कम्प्यूटर्स और सिग्नल प्रणाली, फालतू पुर्जे, उपभोज्य सामग्री, कच्चे माल, भूमि और सिविल संकर्म, प्रतिष्ठान जिसके अन्तर्गत सड़कों, भवनों, विद्यालयों, चिकित्सालयों, परीक्षण प्रयोगशालायें और उपस्कर, प्रशिक्षण केन्द्रों, कार्यशालाओं, चालू संकर्मो, मरम्मत के लिए भेजी गयी मशीनरी और उपस्कर, रद्दी माल और पुरानी सामग्री भी सिम्मिलित है।

तीनः अन्य आस्तियां

अन्य आस्तियां और जंगम सम्पित्तियां, सँयंत्र और मशीनरी, मोटरकार, जीपें, ट्रकें, क्रेन्स, ट्रेलर्स और अन्य वाहनों, फनीचर, फिक्सर, वातानुकूलक, कम्प्यूटर्स आदि को सम्मिलित करते हुये जिस सीमा तक वे ऊपर खण्ड-एक और दो के अधीन निर्दिष्ट आस्तियों द्वारा उससे प्रयुक्त और प्रचालित या सहयुक्त हैं, भी वितरण उपक्रमों के भाग होंगे।

चारः विविध

 उस सीमा तक संविदायें, करारों, हित और व्यवस्थायें जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।

- उस सीमा तक प्रतिभूत और अप्रतिभूत ऋण जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- उस सीमा तक नकद और बैंक अवशेष जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- 4. उस सीमा तक अन्य चालू आस्तियां जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- 5. उस सीमा तक अन्य चालू दायित्व और उपबन्ध जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- 6. उस सीमा तक आकस्मिक दायित्व जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आांस्तयों से मान्यता प्राप्त हों और उससे सम्बद्ध या सम्बन्धित हों।
- 7. उस सीमा तक उ०प्र० पावर कारपोरेशन लिमिटेड की शेयर पूंजी जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट आस्तियों और दायित्वों के अनुरूप होगी।
- 8. उस सीमा तक अन्य दायित्व जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।
- 9. उस सीमा तक कार्यवाहियां जिस सीमा तक वे ऊपर खण्ड एक, दो और तीन में निर्दिष्ट वितरण क्रिया-कलापों या उपक्रमों या आस्तियों से सम्बद्ध या सम्बन्धित हों।

पांचः - ऊपर यथा उल्लिखित अन्तरण के प्रतिफल स्वरूप उ०प्र०पा०का०लि० को 1000 रूपये प्रत्येक के अंकित मूल्य के 1,45,70,206 शेयर वाराणसी डिस्काम द्वारा जारी किये जाएंगे।