

**STATE LOAD DESPATCH CENTRE (SLDC)
ANNUAL FEE & OPERATING CHARGES
for 3rd Control Period FY2014-15 to FY2018-19**



ORDER

9th May, 2014

ANDHRA PRADESH

ELECTRICITY REGULATORY COMMISSION

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ABBREVIATIONS

A&G	Administration & General
A.P. / AP	Andhra Pradesh
AG	Accountant General
APERC	Andhra Pradesh Electricity Regulatory Commission
APGenco	Andhra Pradesh Power Generation Corporation Limited
APGPCL	Andhra Pradesh Gas Power Corporation Limited
APTRANSCO	Transmission Corporation of Andhra Pradesh Limited
ARR	Aggregate Revenue Requirement
BSES	Bombay Suburban Electric Supply
CAGR	Compound Annual Growth Rate
CERC	Central Electricity Regulatory Commission
CPI	Consumer Price Index
CGS	Central Generating Stations
Cr.	Crore
DA	Dearness Allowance
Discom	Distribution Company
DSTPP	Damodaram Sanjeevaiah Thermal Power Plant
EMS	Energy Management System
FCC	Financial Completion Certificate
FPT	Filing for Proposed Tariff

FY	Financial Year
GoAP	Government of Andhra Pradesh
IPP	Independent Power Producer
KTPP	Kakatiya Thermal Power Plant
KTPS	Kothagudem Thermal Power Station
LSR	Lower Sileru Power Station
LVS	LVS Power Private Limited
MAPS	Madras Atomic Power Station
MPP	Mini Power Project
MU	Million Units
MW	Mega-Watt
MYT	Multi-Year-Tariff
NPC	Nuclear Power Corporation
NSLCPH	Nagarjuna Sagar Left Canal Power House
NSPH	Nagarjuna Sagar Power House
NSRCPH	Nagarjuna Sagar Right Canal Power House
NTPC	National Thermal Power Corporation Limited
O&M	Operation and Maintenance
O.P.	Original Petition
PABR	Penna Ahobilam Balancing Reservoir
PCC	Project Completion Certificate

R&M	Repairs and Maintenance
RAC	Regulatory Affairs Cell
Rs.	Rupees
RTPP	Rayalaseema Thermal Power Plant
RTS	Ramagundam Thermal Station
SAC	State Advisory Committee
SCADA	Supervisory Control and Data Acquisition
SLDC	State Load Despatch Centre
SR	Southern Region
SSLM	Srisaïlam Right Canal Power House
SSLMLCPH	Srisaïlam Left Canal Power House
STU	State Transmission Utility
u/s	Under Section
ULDC	Unified Load Despatch Centre
USL	Upper Sileru Power House
VTPS	Vijayawada Thermal Power Station (Dr. Narla Tata Rao Thermal Power Station)
WPI	Wholesale Price Index

**ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION
HYDERABAD**

Dated:09.05.2014

Present

Dr. V.Bhaskar, Chairman

Sri R.Ashoka Chari, Member

Sri P.Rajagopal Reddy, Member

O.P. No.61 of 2013

Transmission Corporation of Andhra Pradesh Limited representing State Load Despatch Centre.

... Applicant

The applicant filed an application for fixing Annual Fee and Operating Charges for SLDC Business for the 3rd Control Period FY2014-15 to FY2018-19 with the Commission on 30th November 2013. The application was widely published and a Public Hearing was held on 21.01.2014 at Hyderabad. A number of stakeholders including consumers, generators, representatives of various consumer organizations and political parties represented their views during the hearing. Having stood over for consideration till this day, the Commission passed the following.

ORDER
CHAPTER - I
INTRODUCTION

1. The Commission notes that the Andhra Pradesh State Reorganization Act, (No.6 of 2014) (hereinafter called the Act) has been notified on 1.3.2014. As per Section 3 of this Act, the State of Telangana will be created on and after the appointed day. The appointed day has been notified as 2nd June, 2014. Thus two States, Andhra Pradesh and Telangana will come into existence on 2.6.2014.
2. The present determination by the Commission of the Annual Fee and Operating Charges of the SLDC based on APTRANSCO filing for SLDC activity have been made for the energy infrastructure environment of the undivided State of Andhra Pradesh.
3. After 2nd June, 2014, the energy infrastructure environment of each State will be divided consistent with Sections 53, 68, 69,71,81,82,85 and 92 of Andhra Pradesh State Reorganization Act, (No.6 of 2014) and the Ninth and Twelfth Schedule to the Act.
4. The Commission has carefully examined whether it can issue individual tariff orders for the two different states of Andhra Pradesh and Telangana with effect from 02-6-2014. Though this is a desirable and even necessary requirement, it is not at present feasible of implementation for the following reasons. First, for determination of cost of supply individually for the two states, the allocation of ownership of the present electrical infrastructure framework has to be finalized. This has not yet been done. Second, the mandate outlined in Section C of the Twelfth Schedule to the Reorganisation Act which is critical to tariff determination - like determination of share of the two states of the power output of central and state generation stations have yet to be finalized. Third, relevant energy infrastructure details as well as details of assets and liabilities (both recorded and contingent) located in the districts of Anantapur and Kurnool proposed to be transferred from CPDCL to SPDCL have to be finalized and provided by the concerned DISCOM.
5. The present determination of SLDC Annual Fee and Operating Charges may have to be reviewed by the Regulatory Commissions of the two States

referred to in Clause 3 of the Twelfth Schedule of this Act, in the light of their respective energy infrastructure environment of the two States.

6. The Electricity Regulatory Laws in Andhra Pradesh have not yet been amended to recognize the formation of two States from the existing Andhra Pradesh State. The Commission also notes that it is legally bound to proceed as per its present mandate in the Electricity Act, 2003 and the relevant existing regulations of the Commission.
7. If the Commission does not proceed to determine the SLDC Annual Fee and Operating Charges for the period 1.4.2014 onwards, the SLDC will not have a legal basis for levying tariff and avoid would be created effecting the economic viability of SLDC to recover charges for performing its essential functions to maintain the critical electricity sector.
8. Accordingly, this Commission has decided to issue this Order which though nominally is indicated as applicable for the 3rd Control Period (2014-15 to 2018-19) and which is consistent with its existing regulations, will be subject to review by the Successor Regulatory Commissions of the two States whenever deemed necessary by the respective Commissions.

GENERAL

9. Sub-section (1) of section 31 of the Electricity Act, 2003 (Act), provides that the State Government shall establish a State Load Despatch Centre (SLDC). Sub-section (2) provides that the said SLDC shall be operated by a Government company or any authority or corporation constituted by or under any State Act and that until such company/ authority/corporation is notified by the State Government, the State Transmission Utility (STU) shall operate the SLDC. Pending establishment of such a company/ authority/corporation, the Government of Andhra Pradesh (GoAP) notified in G.O.Ms.No.8 dated 17.01.2004 that the existing SLDC shall continue as SLDC and be operated by the Transmission Corporation of Andhra Pradesh Ltd., (APTRANSCO or Applicant) being the STU.
10. Section 32(3) of the Act provides for levy and collection of such fees and charges from the generating companies and licensees engaged in the intra-state transmission of electricity as may be specified by the State Commission.
11. In exercise of powers conferred u/s 32(3) read with Section 181(2)(g) of the Electricity Act, 2003 and all other powers enabling it in that behalf, the

Andhra Pradesh Electricity Regulatory Commission (APERC or Commission) notified on 27.07.2006, the APERC (Levy and Collection of Fees and Charges by State Load Despatch Centre) Regulation, 2006 (Regulation No.1 of 2006) for the levy and collection of fees and charges from all users for the period 2009-10 to 2013-14.

Filings of ARR/FPT

12. APTRANSCO, the SLDC Operator, as per G.O.Ms.No.8, who is also the Applicant herein, has filed its application before the Commission on 30.11.2013 for approval of its proposal for Annual Fee and Operating Charges for the 3rd Control Period (FY2014-15 to FY2018-19) for its SLDC activity u/s 32(3) of the Electricity Act, 2003 read with Regulation No.1 of 2006.

Processing of the Application

13. The filings and statements containing the proposals for determination of the Annual Fee and Operating Charges for the 3rd control period filed by Applicant were scrutinized and found to be generally in order as required under the APERC (Conduct of Business) Regulation No.2 of 1999. The Commission admitted the application and the same was taken on record by assigning Original Petition (O.P.) No.61 of 2013.

Notification calling for objections/suggestions

14. The Applicant, as directed by the Commission, published a public notice in two (2) English and two (2) Telugu (in Telugu) daily newspapers on 04.12.2013 as shown in Annexure B1 & B2 informing the general public that the Applicant had made its filings on SLDC Annual Fee and Operating Charges for the 3rd Control Period (FY2014-15 to FY2018-19) with the APERC and copies of the filings were available at the Office of the Executive Director (Planning, RAC & Reforms) at their headquarters and also in the Zonal, Circle and Divisional offices located at each District, for inspection/perusal/purchase by interested person(s). These filings were also made available on the website of the Applicant as well as the Commission. Interested person(s) and stakeholders were requested to file their objections/suggestion on the filings by 03.01.2014. They were also informed about the intention of the Commission to conduct a Public Hearing in the matter from 10:30 Hrs. onwards on 21.01.2014 at Hyderabad.

Response to Public Notice

15. Following the public notice, Eight (8) persons/generators/organizations have sent their objections/suggestions to the Commission Secretary, APERC on the Tariff proposals of the Applicant by the due date i.e., by 03.01.2014.
16. The Commission directed the Applicant on 03.12.2013 that it should simultaneously arrange responses to the Objectors as and when the Objections were received, without waiting till the due date i.e., 03.01.2014 and also to post the responses on the Applicant's official website.

Venue of Public Hearing

17. The venue of the public hearing viz., FAPCCI Auditorium, FAPCCI Marg, Red Hills, Lakdi-ka-pul, Hyderabad was informed to the Applicant on 10.01.2014 and was also adequately publicized through a press release and through the Commission's website.

Public Hearing

18. The Commission organized the Public Hearing at the predetermined venue on 21.01.2014. Initiating the Public Hearing, the Applicant made a brief presentation on the content of their filings. Subsequently, the Commission heard all those objectors who desired to be heard in person. Apart from the registered Objectors, the persons/organizations who had attended the hearings without prior notice were also heard and their objections/ suggestion taken on record. Prior to closing of the hearing as per the directions of the Commission, the Applicant responded to the issues raised by the objectors during the hearing.
19. The complete list of registered objectors who had submitted written objections within the due date and the names of the stakeholders who had attended the Public Hearing on 21.01.2014 and submitted their objections /suggestions/comments on filings of APTRANSCO are given in Annexure-B3.

Meeting of the State Advisory Committee

20. The issues concerned with the proposals for SLDC Annual Fee and Operating Charges for the 3rd control period were discussed in the State Advisory Committee (SAC) meeting held on 16.01.2014 and suggestions made by the members of SAC have been taken into consideration by the Commission while finalizing this Order.

CHAPTER - II

SLDC - TRUING -UP OF EXPENDITURE PERTAINING 1ST CONTROL PERIOD (FY2006-07 TO FY2008-09)

21. For the SLDC Business for FY 2006-07 by the APTRANSCO has filed ARR as part of Transmission Business as per the provisions of the in Electricity Act 2003, since, there was no Regulation existing at that time indicating the method of filing for SLDC Business. The Commission issued the Tariff Order on 23rd of March 2006 based on the filings of APTRANSCO for SLDC Business. Regulation No.1 of 2006 of APERC was notified on 27th July 2006. APTRANSCO filed for SLDC Business for the period FY2007-08 and FY2008-09 based on the provisions stipulated in Regulation No.1 of 2006 (Levy and Collection of Annual Fees and Operating Charges by the State Load Despatch Centre) and the Commission issued Tariff Order on 7th March 2007. As per the Tariff Orders of SLDC Business for FY2006-07 and for FY2007-08 to FY2008-09, the details containing year wise ARR amount and approved Tariff charges are indicated in the below table:

Table No. 2.1 - Year Wise approved Annual Fees and Operating Charges by APERC for 1st Control Period, (Rs. Cr.)

S.No.	Financial Year	Operating Charges	Annual Fees	Total Charges
1.	2006-07	26.85	--	26.85
2.	2007-08	23.62	4.11	27.73
3.	2008-09	24.92	5.69	30.61

22. As per the Regulation 1 of 2006, any variations in recovery of SLDC business capital cost and operating charges over the fee and charges fixed for a year on account of variations in SLDC usage shall be adjusted in the subsequent control period. In the case of SLDC charges, the true-up is applicable to Annual Charges and Operating Charges as well.
23. For the purpose of determination of variation in recovery of tariff orders charges approved by the Commission in the earlier MYT order were compared with audited annual accounts. This resulted in determination of the overrun or underrun of the approved costs and revenues as per details provided below:

Table No. 2.2 - Actual costs incurred and Revenue realized for this years in 1st Control Period, (Rs. Cr.)

Sl. No.	Financial Year	Operating charges	Annual Fees	Total Charges incurred	Total Revenue realized
1.	2006-07	27.89	--	27.89	26.70
2.	2007-08	24.78	3.63	28.41	27.50
3.	2008-09	26.28	0.66	26.94	31.24

24. While undertaking this true up exercise the Commission ensured a prudential check on all the element wise costs incurred with reference to its earlier MYT Order. The abstract of the costs and revenue true-up adopted is as under:

Table No.2.3 - Cost and Revenue True-up finalised by APERC for 1st Control Period, (Rs. Cr.)

Financial Year	Actual Charges incurred	Charges approved as per TO	Variance (deficit)	Variance (Surplus)	Revenue approved	Revenue realized	Variance (deficit)	Variance (Surplus)	Total Variance
2006-07	27.89	26.85	-1.04	--	26.85	26.70	-0.15	--	-1.19
2007-08	28.41	27.73	-0.68	--	27.73	27.50	-0.23	--	-0.91
2008-09	26.94	30.61	--	3.67	30.61	31.23	--	0.62	4.29
Net result for 1 st Control Period			-1.72	3.67			-0.38	0.62	2.19

25. As seen above, an excess amount of Rs.2.19 Cr. has accrued to the SLDC Business over and above the Tariff Order approved figure. In this amount of Rs.2.19 Cr. an amount of Rs.1.58 Cr. has been adjusted in the operating cost amount of FY2009-10 of Second Control Period (FY2009-10 to FY2013-14) as mentioned in para No.29 of that order. The balance amount (Rs.2.19 Cr- Rs.1.58 Cr) of Rs.0.61 Cr. is now proposed for claw back in full settlement of period from FY2006-07 to FY2008-09 from the first year (FY2014-15) of the 3rd Control period ARR in order to pass on the amount to all distribution companies as per their share of entitlement through the annual revenue requirement of FY2014-15.
26. APTRANSCO, in their filing for the SLDC business for the 3rd Control Period has filed an amount of Rs.0.68 Cr as surplus in 2nd Control Period and clawed back this amount in the year FY2014-15. It is noted that the Second Control Period is not yet completed. However as per clause 4.7 of Regulation 1 of 2006 of APERC, variation in recovery of capital cost and operating charges over the fee and charges fixed for a year on account of variations in SLDC usage shall be adjusted in the subsequent control period, or earlier, in case the variations are considered to be significant by the Commission warranting adjustment. As this claw back of Rs.0.68 Cr. was offered for the 2nd Control Period by APTRANSCO in their filings, the Commission determined to accept it and reduce the Operating Cost for FY2014-15 to this extent.

CHAPTER - III**MYT FILINGS FOR 3rd CONTROL PERIOD
FROM FY 2014-15 - FY 2018-19*****General***

27. APTRANSCO filed the SLDC Annual Fee and monthly Operating Charges to recover the capital cost and operating cost respectively from the users of the SLDC services for the Multi-Year-Tariff (MYT) 3rd control period i.e., from FY2014-15 to FY 2018-19. The proposed Annual Fee and Operating Charges are to be levied on users of SLDC services based on users' generation capacity. The details of capital cost, operating cost, generation capacity of users likely to use SLDC services, Annual Fee and monthly Operating Charges have been filed for each year of the 3rd Control Period. The filings broadly conform to the Regulation No.1 of 2006 issued by the Commission for the purpose of fixing the Annual Fee and Operating Charges for SLDC services.

Generation Capacity

28. APTRANSCO estimated the system generation capacity (in terms of MW) based on generation capacities contracted by four distribution companies and capacity contracted by other users (such as open access and captive users) who are likely to use the SLDC services to transport the electricity to their chosen destinations. The generation capacity arrived in this manner will be the base on which the proposed Annual Fee and Operating Charges are to be levied. APTRANSCO projected the generation capacity to reach 27782 MW by the last year of the 3rd Control Period, while giving the details for each year. The details of the generation capacity in terms of MW filed by APTRANSCO are given in Table below.

Table No.3.1 - Filings: Estimated Generation Capacities, (MW)

Sl.	Source of Power	2014-15	2015-16	2016-17	2017-18	2018-19
I	APGenco	11330	11449	11449	12050	12790
a)	Thermal	7252	7252	7252	7853	8593
b)	Hydro	4078	4197	4197	4197	4197
II	Central Generating Stations	3669	3669	4372	4477	4477
III	Joint Sector	57	57	57	57	57
IV	IPPs	2426	2426	2426	2426	2426
V	Others (NCE, MPPs, Wind, Mini Hydel, etc.)	3606	5859	6576	6993	7360
VI	Open Access Generators	672	672	672	672	672
	Total	21760	24132	25552	26675	27782

Capital Investment

29. The applicant filed Capital Investment for SLDC business as follows: The opening balance of Fixed Assets (Investment) at the beginning of FY2013-14 was shown as Rs.18.33 Cr. and the assets being added during FY2013-14 is Rs.15.87 Cr. For the 3rd Control Period, sum of the year-wise Capital Investments proposed by the Applicant is Rs.88.94 Cr. Details are given in Table-5. On the investments proposed in 3rd Control Period and on existing Assets at the end of FY 2013-14, the Applicant worked out the Capital Cost to recover the investment made with interest as per Regulation No.1 of 2006 on annual basis in Rs./MW.

Table No.3.2 - Filings: Capital Investment, (Rs. Cr.)

Name of the Wing	2014-15	2015-16	2016-17	2017-18	2018-19	Total
Grid Operation	0.89	0.77	0.73	0.78	0.69	3.86
Commercial/EBC	0.16	0.23	0.12	0.13	0.15	0.79
Telecom	40.97	14.29	14.18	12.89	0.00	82.33
Power Systems	0.01	0.34	0.21	1.34	0.05	1.95
Total	42.04	15.63	15.24	15.15	0.88	88.94

Capital Cost

30. The capital cost for SLDC for each year of the 3rd Control Period is the sum of the unrecovered annual capital costs on previous investments plus the costs on proposed investments for each year of the 3rd Control Period. Thus, the capital cost for FY2014-15 is equal to unrecovered annual capital cost on previous investments plus capital cost on proposed investment for FY2014-15. The annual capital cost (amortized investments) is derived through formulae specified in the Regulation No.1 of 2006 with two key parameters, a) the investment recovery period (10 years) and b) the Actual rate of interest on capital borrowed or 150% of the bank rate, whichever is lower.
31. The applicant proposed to recover a sum of Rs.91.79 Cr. as capital cost on the investments proposed during 3rd Control Period and on residual investments of previous control period. The capital cost worked out in this manner is given for each year of the 3rd Control Period in the filing since the reference for levy of charges is one year. The details of historic and future investments and capital cost on these investments are given in Table below.

Table No.3.3 - Filings: Capital Cost of the 3rd Control Period, (Rs. Cr.)

Sl.	Parameter	2014-15	2015-16	2016-17	2017-18	2018-19	Total
1.	Capital Cost on new investment	7.44	2.73	2.66	2.64	0.16	15.63
2.	Capital Cost on Residual investment	6.05	13.49	16.22	18.88	21.52	76.16
Total		13.49	16.22	18.88	21.52	21.68	91.79

Operating Cost

32. The operating cost for SLDC consist of expenses on three major heads, a) Employee costs, b) Administration & General (A&G) expenses and c) Repairs & Maintenance (R&M) expenses. These expenses are recurring in nature and related to operating aspects of SLDC. These expenses for each year of the 3rd Control Period has been estimated in the filings by APTRANSCO based on historical information i.e., CAGR method for employees cost, A&G costs. The R&M cost is estimated based upon annual maintenance required. The Regulation No.1 of 2006 specifies that the operating cost is to be recovered in full in every year through the levy of monthly operating charge.
33. APTRANSCO estimated a sum of Rs.541.44 Cr. as the Operating Cost for the 3rd Control Period of five years while giving the details for each year. The Operating Cost is the major cost item in the total costs of SLDC and within the Operating Cost, the employee cost constitutes a significant portion. The total Operating Cost, as per filings, consists of Rs.467.60 Cr. Employee cost, Rs.45.26 Cr. A&G expenses and Rs.29.26 Cr. R&M expenses for the 3rd Control Period of five years. The details of Employee cost, A&G expenses and R&M expenses are given in Table below.

Table No.3.4 - Filings: Operating & Maintenance expenses, (Rs. Cr.)

Sl.	Parameter	2014-15	2015-16	2016-17	2017-18	2018-19	Total
1.	Employee Cost	58.81	72.55	89.52	110.45	136.27	467.60
2.	A&G Expenses	6.37	7.49	8.82	10.37	12.21	45.26
3.	R&M Expenses	8.17	4.71	5.39	5.62	5.37	29.26
4.	Other Expenses	-	-	-	-	-	-
5.	Surplus in 2 nd control period - Clawed back	(-)0.68	-	-	-	-	(-)0.68
Total O&M Expenses		72.67	84.75	103.73	126.44	153.85	541.44

Fee and Charge

34. To recover the capital cost, APTRANSCO proposed to levy the Annual Fee (Rs./MW/Year) for each year of the 3rd control period based on estimated generation capacity. To recover operating cost, APTRANSCO proposed to levy the monthly Operating Charges (Rs/MW/month) on estimated generation capacity. Through, levying of Annual Fee and Operating Charges on users of SLDC services, APTRANSCO will recover the entire estimated annual cost of SLDC from the users. The details of Annual Fee and Operating Charges filed are given in Table below.

Table No.3.5 - Filings: Annual Fee and Operating Charges

Sl.	Parameter	2014-15	2015-16	2016-17	2017-18	2018-19
1.	Generation Capacity (MW)	21760	24132	25552	26675	27782
2.	Capital Cost (Rs. Cr.)	13.49	16.22	18.88	21.52	21.68
3.	Operating Expenses (Rs. Cr.)	72.67	84.75	103.73	126.44	153.85
Annual Fee (Rs./MW/Annum)		6199	6721	7389	8069	7804
Operating Charges (Rs/MW/Month)		2783	2927	3383	3950	4615

Conclusion

35. The APTRANSCO filing for SLDC activity is in conformity with the Regulation No.1 of 2006 issued for the purpose of fixation of the Annual Fee and Operating Charges. APTRANSCO requested that the filing may be examined and the Annual Fee and monthly Operating Charges fixed for each year of the 3rd Control Period.
36. The Commission analyzed the filings in detail and determined the costs and capacity for each year of the 3rd Control Period. Based on these workings, the Commission fixed the Annual Fee and monthly Operating Charges for each year of the 3rd Control Period FY2014-15 to FY2018-19. The Commission analysis on these filings is detailed in Chapter-V. Prior to that an analysis of the issues raised during the Public Hearing is undertaken in Chapter IV.

CHAPTER - IV

ISSUES RAISED BY THE GENERAL PUBLIC AND APTRANSCO RESPONSES

Issue: Bifurcation of the State

37. Sri M. Venugopala Rao and Others submitted that if proposed bifurcation of Andhra Pradesh comes into effect before the next general elections, the tariffs that are going to be determined by the Commission for the 3rd control period need to be modified taking the changes incorporated in the Act relating to generation and transmission capacities and SLDCs of respective States of Andhra Pradesh and Telangana by asking the successor utilities to file their tariff proposals, etc., afresh. If the two proposed States come into existence even before the Commission issues its tariff orders, respective SLDCs are to be asked to file their charges proposals, etc., afresh and separate orders are to be issued by holding the public hearings within the stipulated period of six months.

Reply of the Licensee: Not in the purview of the Utility.

Commission's View: This issue raised has been addressed by the Commission in Chapter-I of this order.

Issue: Publication of Annual Accounts

38. Sri Badrinath, Sri M.R.Prasad of A.P.Ferro Alloys Producers Association and Others submitted that except for FY 2010-11, APTRANSCO has not published its Annual Accounts in its website for public use. In the absence of availability of the same the working results of the Company cannot be understood fully by the Consumer/public and further, in the absence of detailed Annual Accounts for all years, the filing cannot be treated as complete. The objectors requested the Commission to direct the License to publish the Annual Accounts and Annual Administrative reports in website and extend time by at least one week after such publication for submission of objections.

Reply of the Licensee: APTRANSCO has been publishing the Annual Accounts every year and has been placing the same on the table of Legislative Assembly and Legislative Council as per the statutory provisions. The published Annual Statement of Accounts from FY2007-08 to FY2011-12 are available on APTRANSCO website www.aptransco.gov.in and can be viewed by others as well. After completion of the accounts, APTRANSCO has been submitting the

same to the APERC, Ministry of Statistics & Programme Implementation, Central Statistical Organization, AG, AP, Directorate of Economics and Statistics, GoAP. APTRANSCO is transparent in its accounts and there is no need to hide the accounts from the public view as these accounts are audited by the external auditors & AG office as per the provisions of company laws and are published and placed before the A.P. Legislative. The status of the finalisation of Annual Accounts is given in table below.

Table No.4.1 - The status details of Annual Accounts

Year of Annual Accounts	Date of adoption of AGM	Date of placement before State Legislative Assembly/Council
1998-99	01.06.2002	29.03.2003
1999-2K	31.03.2003	27.09.2003
2000-01	09.07.2003	28.07.2004
2001-02	29.10.2003	28.07.2004
2002-03	28.04.2004	28.07.2004
2003-04	20.01.2005	03.10.2005
2004-05	09.01.2006	29.08.2006
2005-06	29.09.2006	15.12.2006
2006-07	20.09.2007	20.11.2007
2007-08	19.09.2008	02.12.2008
2008-09	30.09.2009	26.02.2010/ 02.03.2010
2009-10	29.09.2010	16-12.2010
2010-11	20.09.2011	05.12.2011/ 04.12.2011
2011-12	31.12.2012	14.06.2013/ 20.06.2013
2012-13	30.11.2013	The Annual Accounts are under printing.

Commission's View: APTRANSCO in its reply stated that the annual accounts of FY2007-08 to FY2011-12 have been kept in its website. The Commission notes that the Annual Accounts upto the year 2012-13 are available on the Transco website.

However, the APTRANSCO is advised to publish the annual accounts promptly after adoption by the Annual General Body Meeting and in any case before 30th September every year.

Issue: True Up of O&M Expenses

39. Sri M.R.Prasad of A.P.Ferro Alloys Producers Association and Others submitted that the true up of O&M expenses should be allowed only on the basis of audited accounts which have not been furnished by the licensee. Further, as per the framework of the Tariff Regulations, the O&M expenses have been

categorized as “Controllable Expenses” and variations on this account are not allowed to be trued up. Only the variations which are due to *force majeure* factors are allowed to be considered in truing up. The increase in fuel costs, travelling and vehicle hire expenses and increase in R&M expenses are clearly not *force majeure* factors. Further, the DA hike and new recruitment were already considered in the 2nd MYT order as escalation was allowed in that order. The increase in the employee expenses consequent to wage revision has to be looked into by the Commission and a strict prudence check is required; only the reasonable increase in the basic salaries may be allowed.

Reply of the Licensee: Employee cost to the extent of inflation adjustment (DA) and pay revisions are external parameters and these parameters are beyond the control of licensee. APTRANSCO’S actual O&M cost per Bay and per Circuit kilometer is less than 50% of the CERC approved O&M norms for the 2nd Control Period. Hence it is not appropriate to compare APTRANSCO’S projected O&M indexation factor with CERC Norms for 3rd Control Period. It is also to inform that APTRANSCO’S actual O&M cost is less than the O&M cost of the other similar state transmission utilities like Gujarat, Maharashtra and Tamilnadu.

Commission’s View:

- i) The employee cost which is a component of O&M cost has to be normalised as per the Regulation No.1 of 2006. However, until the staffing plan is filed by APTRANSCO and approved by the Commission as per Regulation, the Commission has to arrive the estimated employees cost for each year of the 3rd Control Period based on, (i) considering the actual expenditure incurred on employees during 2nd Control Period, (ii) considering the revision of pay due in FY2014-15, (iii) considering adjustment for inflation.
- ii) For estimating A&G expenditure another component of O&M cost, the Commission is of the view, that these costs must be projected for each year of 3rd Control Period taking the following steps. Initially A&G expenses for the period FY2008-09 to FY2012-13 was normalised by adding APTRANSCO headquarters Commission expenditure apportioned to SLDC to the actual A&G cost while deducting it from employee cost. This forms the base for projecting A&G costs for the 3rd Control Period.

- Thereafter an escalation of 9.2% is applied based on historic CPI & WPI.
- iii) Regarding R&M expenditure, the Commission after scrutiny of the filings accepts the projections made by the applicant.
 - iv) Regarding the true-up of expenditure of 2nd Control Period filed by APTRANSCO, this has been dealt with in Chapter - II of this order.

Issue: Unrealized Generating Capacities

40. Sri M. Venugopala Rao, Sri T. Harish Rao, Sri Gade Diwakar, Sri M. Thimma Reddy and Others submitted that for the 2nd Control Period of FY2009-10 to FY2013-14, against the generation capacities projected by APTRANSCO, ranging from 13,973 MW for FY2009-10 to 20,222 MW for FY2013-14, Commission had determined generation capacities ranging from 13,744 MW for FY2009-10 to 21,222 MW for FY2013-14 and accordingly determined the SLDC charges for the 2nd Control Period. APTRANSCO, in its current filings, submitted the revised Generation Capacity for FY2013-14 as 16,121 MW. It confirms that by the end of the 2nd Control Period, the generation capacities projected by APTRANSCO and determined by the Commission are higher by 4101 MW and 5101 MW respectively.

Reply of the Licensee: For 2nd Control Period, DISCOMS projected the contracted capacities based on the anticipated installed generation capacities. For the 3rd Control Period, DISCOMS have given their coincident peak demand as their contracted capacity for FY2013-14 and APTRANSCO has utilised it for transmission cost filings.

Commission's View: The Objective of this exercise is to recover the Annual Fee and Operating Costs of the SLDC. Section 4.4 of Regulation No.1 of 2006 requires that the total Generation Capacity be adopted to determine unit charges. The figure of 16,121 MW refers to coincident Peak Demand and is not Generation Capacity.

Issue: Operating Expenses of SLDC & Determination of Annual Fee and Operating Charges

41. Sri M. Venugopala Rao and Others submitted that -
- i) Operating expenses of SLDC are being worked out on the basis of projected generating capacity. It is observed that addition of generation capacity has fallen short by 5101 MW during the 2nd Control Period, which means higher Annual Fee and Operating Charges for SLDC have been permitted by the Commission and

collected by SLDC. As a result, SLDC could earn revenue of Rs.193.62 Cr. during the last five years, against Rs.175.47 Cr. permitted by the Commission. The increase is mainly due to increase in the number of open access consumer in FY2012-13 as explained by APTRANSCO. But, compared to the expenditure permitted by the Commission in its order dated 20th March, 2009, SLDC's expenditure for the same period exceeded by Rs.41.33 Cr. APTRANSCO explained that almost 85% of the variance in O&M expenses is due to an increase in the employee expenses, particularly due to Pay revision during FY2010-11. Had SLDC not incurred additional expenditure, more surplus would have been passed on to the consumers and the need for increasing SLDC Annual Fee and Operating Charges for the 3rd Control Period would have come down proportionately.

- ii) Since working of SLDC is basically online in nature, addition of generating capacity may not automatically increase its costs of operation substantially and the requirement of man power may not be increased substantially. O&M expenditure, including wage bill, need to be in consonance with the norms prescribed by the Commission. If additional O&M expenditure as is being claimed for SLDC is allowed as pass through by the Commission, irrespective of its norms, then there will be no prudent limitations to such expenditure.
- iii) For the 3rd Control Period, a capital cost of Rs.91.79 Cr., without including financial commitment of wage revision, due from 1st April, 2014, is projected. In view of excess expenditure incurred by SLDC during the 2nd Control Period, its proposed expenditure for the 3rd Control Period needs to be pruned, after carefully examining the utility and requirements of proposed system up gradation of SLDC. Keeping these submissions, among others in view, the higher Annual Fee and Operating Charges proposed for SLDC for the 3rd Control Period need to be reduced considerably.

Reply of the Licensee:

- i) As per Regulation No.1 of 2006 (levy of collection of fees and charges by State Load Dispatch Centre) SLDC charges consists two types of charges (a) Annual Fee for recovery of capital invested and cost of

- capital - interest thereon and (b) Operating Charges to recover the employee cost, A&G expenses, R&M expenses and other charges.
- ii) Capital Cost approved in the Tariff Order covers the repayment of principal and payment of interest on investment in a year, plus any residual capital cost of past investment. However, during 2nd control period, the implementation of upgradation of EMS/SCADA system was delayed due to belated finalization of the architecture in coordination with other Southern Constituents states (Karnataka, Tamilnadu and Kerala) and the connected Telecom communication network augmentation. The Capital Cost incurred was thus less than Capital Cost approved by the Commission. Also, the upgradation of existing EMS/SCADA system at the main SLDC and creation of backup SLDC at Tirupati is under progress and corresponding investments are projected in the in 3rd control period. Employee costs increased due to the impact of inflation (DA) and Pay revision which are external parameters beyond the control of licensee. APTRANSCO has filed the actual costs and revenue vary with the cost and revenue approved by APERC for the 2nd control period in the ARR for 3rd Control Period.
- iii) Effective grid management requires handling of different but related sets of flows that are critical for optimization of energy resources. These are the flow of energy across the grid, the exchange of information about power flows and the status of elements it moves across and the flow of money between producers, marketers, transmission owners, buyers and others. 'Load Despatch Centres' (LDCs) play an essential role in managing and improving all the three. Thus, 'load despatching' is an overarching, distinct and specialized activity. The volume of the Load Dispatch activities depends on the size of the grid, number of generators and open access consumers. Thus, the manpower requirement will increase if the generating capacities and size of the grid increase.

Commission's View: The increase of 18 Cr. in receipts is due to increase in Open Access charges and not due to a higher Annual Fee & Charges. These charges have been computed based on the Generation Capacity and these

charges have not been increased in 2013-14, even though the anticipated generation did not materialise.

42. The actual quantities of dispatches may vary from the capacities due to many factors and some of them may be uncontrollable (like water inflows to the Hydel Projects). Any excess recovery or shortfall will be adjusted in the Truing up mechanism. The employee cost covered under O&M expenditure to recover the Operating Charges has to be dealt with as per Regulation No.1 of 2006 while truing up of 2nd Control Period and while approving for the 3rd Control Period after thorough scrutiny of the filings. Apart from scrutiny of O&M expenses, the investments proposed for recovery of Annual Fee are scrutinised thoroughly before approval.

Issue: Performance of SLDC for 2013-14

43. Sri M.Venugopala Rao and Others submitted that details of SLDC's performance for the FY2013-14 are not in the proposals made by APTRANSCO and the filings as such are incomplete.

Reply of the Licensee: Revised Capital Investments and Operating expenditure projected in the ARR for 3rd Control Period for FY2013-14 are Rs.15.87 Cr and Rs.58.12 Cr respectively.

Commission's View: The expenditure details have been furnished at pages 16 & 25 of the applicant's filings. Revenue details upto FY2012-13 have been furnished at the true-up at page 13.

CHAPTER - V

COMMISSION ANALYSIS AND DECISIONS ON FILINGS

Generation Capacity

44. The Commission examined the generation capacity details filed by APTRANSCO for the purpose of levying the Annual Fee and Operating Charges. The capacity expansion plan submitted by APTRANSCO for the 3rd Control Period is found to be reasonable and accordingly Commission has adopted the same for reckoning SLDC Annual Fee and monthly Operating Charges.
45. APTRANSCO projects that the Generating capacity could reach to 27,782 MW by the end of the 3rd control period, which the Commission accepted. The details of the capacity determined by the Commission are given in Table-5.1. The complete details filed by APTRANSCO (generating station-wise capacity (MW) details, year-wise) and Commission accepted details are annexed in Annexure-D.

Table No.5.1 - APERC: Estimated Generation Capacities, (MW)

SI	Source of Power	2014-15	2015-16	2016-17	2017-18	2018-19
I	APGenco	11330	11449	11449	12050	12790
a)	Thermal	7252	7252	7252	7853	8593
b)	Hydro	4078	4197	4197	4197	4197
II	Central Generating Stations	3669	3669	4372	4477	4477
III	Joint Sector	57	57	57	57	57
IV	IPPs	2426	2426	2426	2426	2426
V	Others (NCE, MPPs, Wind, Mini Hydel, etc.)	3606	5859	6576	6993	7360
VI	Open Access Generators	672	672	672	672	672
Total		21760	24132	25552	26675	27782

Capital Investments

46. The Commission examined the investment proposals made by APTRANSCO for SLDC operations for each year of the 3rd Control Period. The major part of the proposed investments for SLDC operations occur in telecommunications. The Commission has effected a reduction in the projected capital expenditure after (a) examination of actual vs approved of capital expenditure during the 2nd Control Period, which revealed significant delays in implementation of interstate projects and (b) limiting the investment component relating to

telecommunication activity of SLDC. Additional allocation has been provided at EBC where the filing of 0.79 Cr. has found inadequate. This was raised to 2.00 Cr. The investment in SLDC business has been fixed at Rs.48.81 Cr by the Commission against the proposed investment of Rs.88.94 Cr by APTRANSCO for the entire Control Period are given in Table-5.2. The details of investment plan approved is placed at Annexure-F.

Table No.5.2–Year - wise Investment Proposed by APTransco vs Investment approved by the Commission, (Rs. Cr.)

Year	2014-15	2015-16	2016-17	2017-18	2018-19	Total
As per APTRANSCO filing	42.04	15.63	15.24	15.15	0.88	88.94
Approved by APERC	12.30	11.51	9.34	9.52	6.14	48.81

Capital Cost

47. The Capital Cost computed by the Commission was based on the following:
- i) As per the Regulation No.1 of 2006 in computing the capital cost, rate of interest used, on investment made (capital borrowed), shall be the lower of (a) 150% of the bank rate or (b) actual rate of interest on capital borrowed. At present, the bank rate is 9% per annum and 150% of this rate works out to 13.5% per annum. The borrowing cost of APTRANSCO is 12% per annum. Accordingly 12% per annum of the borrowing cost has been considered in computing the capital cost for each year of the 3rd Control Period. For computing Capital Cost on residual investments on previous control periods, the rate of interest as approved in those Control Periods is taken.
 - ii) There was a shortfall in the investments earlier approved by the Commission during the previous control periods. The Commission has only allowed the actual investments made in previous control period for computing Capital Cost during the 3rd Control Period.
 - iii) Number of years in which investment to the recovered is considered as 10 per the Regulation 1 of 2006.
48. APTRANSCO had proposed to recover a sum of Rs.91.79 Cr. capital cost during the 3rd Control Period. As per the Commission's calculations, the capital cost is placed at Rs.44.38 Cr. for the 3rd Control Period against Rs.91.79 Cr. proposed by APTRANSCO. The capital cost worked out by the Commission is

lower by Rs.47.41 Cr. compared with filings made by APTRANSCO. Year-wise capital cost proposals filed by APTRANSCO, approved by the Commission are given in Table-5.3 and the details of Capital Cost computed by the Commission for 3rd Control Period are given in Table-5.4.

Table No.5.3 - Year-wise Capital Cost filed by APTransco and approved by the Commission, (Rs. Cr.)

Year	2014-15	2015-16	2016-17	2017-18	2018-19	Total
As per APTRANSCO filing	13.49	16.22	18.88	21.52	21.68	91.79
Approved by APERC	5.52	7.46	9.03	10.66	11.71	44.38

Table No.5.4 - APERC: Capital Cost (Rs. Cr.) of the 3rd Control Period

Sl	Parameter	2014-15	2015-16	2016-17	2017-18	2018-19
1	Opening balance as on 2013-14	0.87	0.78	0.69	0.63	0.60
2	on investment of 2013-14 RE	2.47	2.47	2.47	2.47	2.47
3	on investment of 2014-15	2.18	2.18	2.18	2.18	2.18
	on investment of 2015-16		2.04	2.04	2.04	2.04
	on investment of 2016-17			1.65	1.65	1.65
	on investment of 2017-18				1.68	1.68
	on investment of 2018-19					1.09
Total		5.52	7.46	9.03	10.66	11.71

Operating Cost

49. The Commission examined the operating cost proposals made by APTRANSCO for each year of the 3rd Control Period. Major component in operating cost is the employee cost for SLDC operations. The Commission has effected the following changes to the operating cost amount projected by APTRANSCO.

- i) For estimating Employee cost for each year of the 3rd control period, the Commission examined expenditure incurred in previous years under each head i.e., basic pay, DA and other allowances including terminal benefits and observed that the headquarters maintenance charges apportioned to SLDC has been included in the employee cost. These charges should be included in A&G costs as they are allocated costs rather than direct costs. Hence appropriate changes were made. Employee cost for each year of the 3rd control has been projected considering actual expenditure incurred in previous years, impact of pay revision due in FY2014-15 and impact of inflation.
- ii) For projecting the A&G expenditure for each year of 3rd Control Period, the average A&G expenditure of previous years of FY2008-09 to

FY2012-13 has been adopted as the A&G expenditure for the year FY2010-11. To this, escalation rate 8.6% has been provided to arrive A&G expenditure of FY2013-14. The A&G cost of each year of the 3rd Control Period is projected by adopting escalation rate of 8.6% on expenditure of FY2013-14 based on CAGR of WPI & CPI for the year 2007-08 to 2012-13.

- iii) With regard to R&M expenses, the Commission examined projections made for each year of the 3rd Control Period by APTRANSCO and found them reasonable. Hence same are considered.
- iv) The amount of Rs.0.61 Cr excess accrued (determined, as per true up taken, in Chapter-II of this order) due to the SLDC Business over and above the SLDC Orders (Determination of Annual Fee & Operation Charges) approved figures for FY2006-07 to FY2008-09 is proposed for claw back from the first year (FY2014-15) of the 3rd Control Period ARR in order to pass on the amount to all distribution companies as per their share of entitlement through the annual revenue requirement of FY2014-15.
- v) An amount of Rs.0.68 Cr. found surplus in Second Control Period as explained in para no.24, is clawed back in FY2014-15.
50. With the above changes on operating cost, the Commission has placed the operating cost for SLDC at Rs.346.73 Cr. for the 3rd Control Period. The operating cost as per the Commission's determination is lower by Rs.194.71 Cr. compared with the filings made by APTRANSCO by Rs.541.44 Cr. The year wise O&M expenses for 3rd Control Period filed by APTRANSCO and approved amount by the Commission are given in Table-5.5. The details, year-wise and element-wise Operating Expenditure (Cost) as filed by APTRANSCO and approved by the Commission is annexed in Annexure-I.

Table No. 5.5 – Year - wise O&M Expenses as filed by APTransco and approved by the commission (Rs. Cr.)

Year	2014-15	2015-16	2016-17	2017-18	2018-19	Total
As per APTransco filing	72.66	84.76	103.73	126.44	153.85	541.44
Approved by APERC	62.10*	63.98	68.92	73.63	78.10	346.73

* Rs 0.61 Cr. of 1st Control Period and Rs.0.68 Cr. of 2nd Control Period have been deducted in FY 2014-15 expenses.

Annual Fee and Monthly Operating Charges

51. To recover the approved cost for each year of a Control Period, the Commission has fixed two instruments for SLDC. These are;

$$i) \quad \text{Annual Fee (Rs/MW/Year)} = \frac{\text{Capital Cost}}{\text{Generation Capacity}}$$

$$ii) \quad \text{Operating Charges (Rs/MW/Month)} = \frac{\text{Operating Cost}}{(\text{Generation Capacity} \times 12)}$$

Through Annual Fee, the SLDC recovers the approved capital cost in full for each year of the 3rd control period. Through Operating Charges, the SLDC recovers the approved operating cost in full for each year of the 3rd Control Period. The schedule of SLDC Annual Fee and Operating Charges for 3rd Control Period is given in Annexure-A. The year-wise Annual Fee and Operating Charges filed by APTRANSCO and approved by the Commission is annexed in Annexure-J. The details of Commission's calculations on Annual Fee and Operating Charges are given in Table-5.6.

Table No.5.6 - APERC: Annual Fee and Operating Charges

Sl.	Parameter	2014-15	2015-16	2016-17	2017-18	2018-19
1)	Generation Capacity (MW)	21760.61	24132.41	25552.53	26674.74	27781.74
2)	Capital Cost (Rs. Cr.)	5.52	7.46	9.03	10.66	11.71
3)	Operating Expenses (Rs. Cr.)	62.10	63.98	68.92	73.63	78.10
	Annual Fee (Rs./MW/Annum)	2535.65	3092.78	3533.18	3995.39	4214.27
	Operating Charges (Rs/MW/Month)	2378.11	2209.34	2247.62	2300.31	2342.73

Notes on fee and charge

- i) The SLDC charges (Annual Fee & Operating Charges) shall be paid by Generating Companies (including Captive Generating Plants), Distribution Licensees and Trading Licensees using the intra-State Transmission Network.
- ii) The Annual Fee shall be paid by all the Users in advance in two equal instalments, by 10th of April and by 10th of October every financial year starting from FY 2014-15 onwards:

- iii) Provided that in case where the usage of intra-state transmission system commences after the 10th of April or the 10th October of a year, the Annual Fee for the period upto 30th September of the year and 31st March of the subsequent year respectively shall be required to be paid before the commencement of intra-state transmission.
- iv) The Operating Charges shall be paid monthly.
- v) If the Annual Fee and Operating Charges as the case may be are not paid by the due date(s), surcharge at the rate of two percent per month shall be levied on the unpaid amounts.
- vi) An amount equivalent to two months' Operating Charges shall have to be deposited in advance by every User as security against default in payment of Operating Charges.
52. The Commission's Earlier Directives and Fresh Directives are annexed in Annexure-C.
- Commission Intervention in Case of Variations in Cost and Revenues***
53. For the purpose of monitoring the actual cost and revenue, the directives issued earlier on filing of monthly costs be scrupulously followed by APTRANSCO / SLDC.
54. The aforementioned fee and charge fixed for each year of the 3rd Control Period are applicable from 1st April to 31st March of the respective Financial Year. However, for the year FY2014-15 the transmission charges and loss-in-kind determined are applicable w.e.f. 17-05-2014 subject to review by the Successor Regulatory Commissions of the two States whenever deemed necessary by the respective Commissions.

This Order is signed on the 9th day of May, 2014.

Sd/-
(P.RAJAGOPAL REDDY)
MEMBER

Sd/-
(R.ASHOKA CHARI)
MEMBER

Sd/-
(Dr. V.BHASKAR)
CHAIRMAN

ANNEXURE - A**SCHEDULE OF SLDC ANNUAL FEE AND OPERATING CHARGES
FOR 3rd CONTROL PERIOD
FOR FY2014-15 TO FY 2018-19**

Year	Annual Fee (Rs./MW/Year)	Operating Charge (Rs/MW/Month)
2014-15	2535.65	2378.11
2015-16	3092.78	2209.34
2016-17	3533.18	2247.62
2017-18	3995.39	2300.31
2018-19	4214.27	2342.73

Notes: Users of SLDC services shall pay both Annual Fee and Operating Charges as per the terms and conditions prescribed by Andhra Pradesh Electricity Regulatory Commission (APERC) from time to time.

Notes on Annual Fee and Operating Charges

- i) The SLDC charges (Annual Fee & Operating Charges) shall be paid by Generating Companies (including Captive Generating Plants), Distribution Licensees and Trading Licensees using the intra-State Transmission Network.
- ii) The Annual Fee shall be paid by all the Users in advance in two equal instalments, by 10th of April and by 10th of October every Financial Year starting from FY2014-15 onwards:
- iii) Provided that in case where the usage of intra-state transmission system commences after the 10th of April or the 10th October of a year, the Annual Fee for the period upto 30th September of the year and 31st March of the subsequent year respectively shall be required to be paid before the commencement of intra-state transmission.
- iv) The Operating Charges shall be paid monthly.
- v) If the Annual Fee and Operating Charges as the case may be are not paid by the due dates, surcharge at the rate of two percent (2%) per month shall be levied on the unpaid amounts.
- vi) An amount equivalent to two months' Operating Charges shall have to be deposited in advance by every User as security against default in payment of Operating Charges.

ANNEXURE - B1

**BEFORE THE HONOURABLE
ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION (APERC)**
D.No. 11-4-660, 5th Floor, Singareni bhavan, lakdi-ka-pool, Red Hills, HYDERABAD-500004.

1. Notice is hereby given to all that the Transmission Corporation of Andhra Pradesh Limited (APTRANSCO), holding License for Transmission of Electricity (No. 1/2000), has submitted the filings on the Aggregate Revenue Requirement (ARR) proposals and application for the proposed tariffs for its Transmission Business and SLDC activity for the 3rd control period (FY 2014-15 to FY 2018-19) along with the filings of Multi Year Tariff Framework as per the APERC Regulation No. 5 of 2005 (Terms & Conditions for Determination of Transmission Tariff) & Regulation No. 1 of 2006 (Levy and collection of charges by State Load Dispatch Center), on 30-11-2013. These filings are taken on record by the Hon'ble commission in OP No. 62 of 2013 for Transmission Business and OP No. 61 of 2013 for SLDC Activity.

2. Copies of the filings and application referred to at Para 1 above are available in the Office of the Executive Director (Planning, RAC & Reforms), Room No.149, A-Block, Vidyut Soudha, Khairatabad, Hyderabad-500 082 and also in the offices of the Chief Engineers (TL & SS) located at Visakhapatnam, Vijayawada, Kadapa, Hyderabad & Warangal, in the offices of Superintending Engineers (TL & SS) located at Nalgonda, Karimnagar, Nizamabad, Mahaboobnagar, Sangareddy, Nellore, Rajahmundry and Kurnool and in the offices of Divisional Engineers (TL & SS) located at Boodidampadu, Nirmal, Guntur, Ongole, Garividi, Nidadavolu, Ananthapur & Chittoor. Copies of these filings can be obtained from the above offices from 04.12.2013 onwards on payment of Rs. 150/- for Transmission filings and Rs. 50/- for SLDC filings. Also a summary of ARR and Tariff filings in English or Telugu can be separately obtained on payment of Rs. 10/-

3. Interested person(s) may inspect/peruse the said ARR and tariff proposals and take note thereof during office hours at any of the said offices at free of charge. These proposals are also available on Websites www.aptransco.gov.in and www.aperc.gov.in.

4. The Charges proposed and summary of Multi-Year-Tariff framework for Transmission business and SLDC activity for the 3rd control period (FY 2014-15 to FY 2018-19) are indicated in the schedule-I & II below.

5. Objections/ Suggestions if any, on the ARR filings and Tariff/charges proposed by APTransco together with supporting material may be filed with the Commission Secretary, APERC, at the address mentioned above in person or through Registered Post so as to reach him on or before 03.01.2014. A copy of each of the same must also be served on Executive Director (Planning, RAC & Reforms), Room No. 149, A-Block, Vidyut Soudha, Khairatabad, Hyderabad-500 082 in the Head office of the APTransco and proof of service of the same must be enclosed to the filing made to Commission Secretary, APERC. The objections/suggestions should be duly signed and should carry full name, postal address, phone/mobile number and e-mail address of the person(s) sending the objections/suggestions. If the objections/suggestions are filed on behalf of any organization or any category of consumers, it should be so mentioned. If the objector also wants to be heard in person it may also be specifically mentioned so.

6. After perusing the objections/suggestions received in response to this notice the Hon'ble Commission may invite such persons, as it considers appropriate and conduct hearings.

7. Andhra Pradesh Electricity Regulatory Commission intends to conduct a **Public Hearing at Hyderabad on 21.01.2014 (Tuesday) from 10:30 hrs onwards**. The exact venue/location of Public Hearing will be placed in website www.aperc.gov.in one week before its schedule date.

Date: 03-12-2013
Place: Hyderabad

**CHAIRMAN & MANAGING DIRECTOR
APTRANSCO**

**SCHEDULE-I
TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED
PROPOSED TARIFF FOR TRANSMISSION BUSINESS OF APTRANSCO FOR 3rd CONTROL
PERIOD i.e., FY 2014-15 TO FY 2018-19**

Sl.	Particulars	2014 15	2015 16	2016 17	2017 18	2018 19
A) ARR/ Transmission Charges						
1)	Aggregate Revenue Requirement - Transmission (Rs. Crores)	1834	2756	3751	4248	4668
2)	Contracted Capacity * (MW)	17375	19393	21650	24172	27012
3)	Transmission Charges (Rs. /kW/Month)	87.95	118.44	144.39	146.47	144.00
B) Transmission Loss Reduction Trajectory:						
1)	Transmission Loss (%)	4.15 +/- 0.3	4.10 +/- 0.3	4.05 +/- 0.3	4.00 +/- 0.3	3.95 +/- 0.3
C) Capital Investment						
1)	Capital Investments (in Rs. Crore)	4509	4705	2430	1246	1071

* Includes demand from the Open Access Consumers

**SCHEDULE-II
TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED
PROPOSED TARIFF FOR SLDC ACTIVITY OF APTRANSCO FOR 3rd CONTROL PERIOD i.e.,
FY 2014-15 TO FY 2018-19**

Sl.	Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
A) ARR/SLDC Fee						
1)	Aggregate Revenue Requirement (SLDC) (in Rs Crore)	86	101	123	148	176
2)	Generating Capacity (MW)	21760	24132	25553	26675	27782
3)	Operating Charges (Rs. / MW / Month)	2783	2927	3383	3950	4615
4)	Annual Fee (Rs. /MW/Annum)	6199	6721	7389	8069	7804
B) Capital Investment						
1)	Capital Investments (in Rs. Crore)	42.04	15.63	15.24	15.15	0.88

R.O.No. 72/13

ANNEXURE - B3**LIST OF REGISTERED OBJECTORS**

SL.NO.	NAME & ADDRESS OF THE OBJECTOR
1	Sri M.Venugopala Rao, Convener, Centre for Power Studies, H.No.7-1-408 to 413, F 203, Sri Sai Darsan Residency, Balkampet Road, Ameerpet, Hyderabad 500 016. Phone No.:(040)23737404 Mobile No.9441193749 email address:vrmmummareddi@gmail.com
2	Sri K.Raghu, Coordinator, Telangana Electricity Employees Joint Action Committee (TEEJAC), 204, SCK Residency, Opp. Niloufer Hospital, Lakdi-ka-pul, Hyderabad 500 004.
3	Sri T.Harish Rao, MLA Siddipet Constituency-33, Medak District. Phone No.:(040)23114847 Fax No.(040)23115358, (08457)222222
4	Sri M.Thimma Reddy, Convenor, People's Monitoring Group in Electricity Regulation, 304, GKR Mansion, Church Road, Lakdi-ka-pul, Hyderabad 500 004.
5	Sri G.Diwakar, General Secretary, All India Kisan Mazdoor Sabha (AIKMS), 658, Marxs Bhavan, 7 th lane, Vidyanagar, Hyderabad 500 044. Phone No.:(040)27607884 Mobile No.9490700943 Fax No.(040)27662518
6	Sri Ch.Venugopala Rao, Federation of Farmers Associations, H.No.1-191, Railway Wagon Work Shop Road, Guntupalli, Ibrahimpatnam (M), Krishna Dist. 521 241. Phone No.:(0866)2831298 Mobile No.9490206969
7	Sri M.Badrinath, Flat No.102, Harika Enclave, Warasiguda, Secunderabad. Mobile No.9849465085
8	Sri M.R.Prasad, Secretary General, A.P. Ferro Alloys Producers Association, Flat No.308, Nirmal Towers, Dwarakapuri Colony, Punjagutta, Hyderabad 500 082. Phone No.:(040)23355336 Fax No.(040)23355337 email address:apfapa@rediffmail.com

List of stakeholders who attended the Public Hearing on 21.01.2014 and submitted their objections/suggestions/comments on filings of APTRANSCO

SL. NO.	NAME & ADDRESS OF THE OBJECTOR
1	Sri Y.V.Subba Rao, Managing Director, M/s RPP Ltd., H.No.1-B, Arora Colony, Road No.3, Banjara Hills, Hyderabad 500 034. Phone Nos.:(040)23544139, 23542109 Fax No.:(040)23540793 email address:info@rppgroup.co.in
2	Sri V.Anil Reddy, Vice President, The Federation of A.P. Chambers of Commerce & Industry, Federation House, FAPCCI Marg, Red Hills, Hyderabad 500 004. Phone Nos.:(040)23395515 to 22 Fax No.:(040)23395525 email address sujata@fapcc.in info@fapcci.in
3	Sri R.Shiv Kumar, Andhra Pradesh Spinning Mills Association, 05, 1 st Floor, Surya Towers, Sardar Patel Road, Secunderabad 500 003. Phone No.:(040)27890041 Mobile No.9849028556 Fax No.:(040)27846837 email address:contact@apspin.com
4	Sri J.Nageswara Rao, President, Federation of Andhra Pradesh Small Industries Association, Administration Building, Industrial Estate, Sanathnagar, Hyderabad 500 018. Phone No.:(040)23812525 Fax No.:(040)23707461 email address:fapsia@gmail.com

ANNEXURE - C

LIST OF EARLIER DIRECTIVES

- 1) APTRANSCO shall file the details of completed capital works pertaining to SLDC operations along with Project Completion Certificate (PCC) and Financial Completion Certificate (FCC) as is being done for transmission projects. APTRANSCO shall also file a monthly report with the Commission on progress in capital works pertaining to SLDC operations by 25th of every month for the previous month.
- 2) APTRANSCO shall file the actual costs and revenues by 25th of every month for the previous month in the format prescribed for this purpose by the Commission. APTRANSCO may also state its own observations on cost, revenues and capacities along with the monthly report.

LIST OF FRESH DIRECTIVES

- 1) **Segregation of Employees Cost**
 - a) APTRANSCO shall apportion the cost of employees of Telecom wing to SLDC business and Transmission business in the next filing as per Grid Code. Since, in the present filing all employees cost of Telecom wing is shown in SLDC business. Further the cost of expansion of Telecom shall be shown in the concerned business as per Grid Code.
 - b) In the present filing the total employee cost of power system is shown under the SLDC business. The employees of power system wing are dealing with SLDC business and Transmission business. The APTRANSCO is directed to segregate the cost of employees between Transmission business and SLDC business.
- 2) As per clause 4.5.1 (employees cost) of Regulation No.1 of 2006 of APERC the staffing plan shall be submitted to the Commission to get approval. As per clause 4.5.2 of Regulation No.1 of 2006, for the A&G costs and R&M costs the norms have to be determined. Hence, the APTRANSCO is directed to submit proposals for determining norms for these costs in O&M expenses will before the next filings.

ANNEXURE - D**GENERATION CAPACITY (IN MW) FOR 3rd CONTROL PERIOD**

Generating Station/Source	APTRANSCO					APERC				
	2014-15	2015-16	2016-17	2017-18	2018-19	2014-15	2015-16	2016-17	2017-18	2018-19
APGENCO										
VTPS I	383.25	383.25	383.25	383.25	383.25	383.25	383.25	383.25	383.25	383.25
VTPS II	383.25	383.25	383.25	383.25	383.25	383.25	383.25	383.25	383.25	383.25
VTPS III	383.25	383.25	383.25	383.25	383.25	383.25	383.25	383.25	383.25	383.25
VTPS IV	462..50	462..50	462..50	462..50	462..50	462..50	462..50	462..50	462..50	462..50
RTPP I	382.20	382.20	382.20	382.20	382.20	382.20	382.20	382.20	382.20	382.20
RTPP II	382.20	382.20	382.20	382.20	382.20	382.20	382.20	382.20	382.20	382.20
RTPP III	191.63	191.63	191.63	191.63	191.63	191.63	191.63	191.63	191.63	191.63
KTPS A	216.72	216.72	216.72	216.72	216.72	216.72	216.72	216.72	216.72	216.72
KTPS B	216.72	216.72	216.72	216.72	216.72	216.72	216.72	216.72	216.72	216.72
KTPS C	216.72	216.72	216.72	216.72	216.72	216.72	216.72	216.72	216.72	216.72
KTPS D	455.00	455.00	455.00	455.00	455.00	455.00	455.00	455.00	455.00	455.00
KTPS VI	462.50	462.50	462.50	462.50	462.50	462.50	462.50	462.50	462.50	462.50
RTS B	56.88	56.88	56.88	56.88	56.88	56.88	56.88	56.88	56.88	56.88
KTPP I	462.50	462.50	462.50	462.50	462.50	462.50	462.50	462.50	462.50	462.50
KTPP II	555.00	555.00	555.00	555.00	555.00	555.00	555.00	555.00	555.00	555.00
DSTPP I	748.00	748.00	748.00	748.00	748.00	748.00	748.00	748.00	748.00	748.00
DSTPP II	748.00	748.00	748.00	748.00	748.00	748.00	748.00	748.00	748.00	748.00
RTPP IV	546.00	546.00	546.00	546.00	546.00	546.00	546.00	546.00	546.00	546.00
Ramagundam C	-	-	-	600.60	600.60	-	-	-	600.60	600.60
KTPP III	-	-	-	-	740.00	-	-	-	-	740.00
Total Thermal	7252.31	7252.31	7252.31	7852.91	8592.91	7252.31	7252.31	7252.31	7852.91	8592.91
Machkund PH AP Share	83.16	83.16	83.16	83.16	83.16	83.16	83.16	83.16	83.16	83.16
Tungabhadra PH AP Share	57.02	57.02	57.02	57.02	57.02	57.02	57.02	57.02	57.02	57.02
USL	237.60	237.60	237.60	237.60	237.60	237.60	237.60	237.60	237.60	237.60
LSR	455.40	455.40	455.40	455.40	455.40	455.40	455.40	455.40	455.40	455.40
Donkarayi	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75
SSLM	762.30	762.30	762.30	762.30	762.30	762.30	762.30	762.30	762.30	762.30
SSLM LCPH	891	891	891	891	891	891	891	891	891	891
NSPH	807.44	807.44	807.44	807.44	807.44	807.44	807.44	807.44	807.44	807.44
NSRCPH	89.10	89.10	89.10	89.10	89.10	89.10	89.10	89.10	89.10	89.10
NSLCPH	59.40	59.40	59.40	59.40	59.40	59.40	59.40	59.40	59.40	59.40
Pochampad PH	26.73	26.73	26.73	26.73	26.73	26.73	26.73	26.73	26.73	26.73
Nizamsagar PH	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90
PABM	19.80	19.80	19.80	19.80	19.80	19.80	19.80	19.80	19.80	19.80
Singur	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85

Generating Station/Source	APTRANSCO					APERC				
	2014-15	2015-16	2016-17	2017-18	2018-19	2014-15	2015-16	2016-17	2017-18	2018-19
Mini Hydro & Others	12.04	12.04	12.04	12.04	12.04	12.04	12.04	12.04	12.04	12.04
Priyadarshini Jurala HES	231.66	231.66	231.66	231.66	231.66	231.66	231.66	231.66	231.66	231.66
Pochampad II	8.91	8.91	8.91	8.91	8.91	8.91	8.91	8.91	8.91	8.91
Nagarjuna Sagar Tail Pond	49.50	49.50	49.50	49.50	49.50	49.50	49.50	49.50	49.50	49.50
Lower Jurala HE	237.60	237.60	237.60	237.60	237.60	237.60	237.60	237.60	237.60	237.60
Pulichintala	-	118.80	118.80	118.80	118.80	-	118.80	118.80	118.80	118.80
Total Hydro	4078.17	4196.97	4196.97	4196.97	4196.97	4078.17	4196.97	4196.97	4196.97	4196.97
Total APGenco	11330	11449	11449	12050	12790	11330	11449	11449	12050	12790
Central Generating Stations (CGS)										
NTPC(SR) Ramagundam U1-U6	629.78	629.78	629.78	629.78	629.78	629.78	629.78	629.78	629.78	629.78
NTPC (SR) Ramagundam -U7	158.58	158.58	158.58	158.58	158.58	158.58	158.58	158.58	158.58	158.58
NLC TS-II Stage-I	103.93	103.93	103.93	103.93	103.93	103.93	103.93	103.93	103.93	103.93
NLC TS-II Stage-II	183.93	183.93	183.93	183.93	183.93	183.93	183.93	183.93	183.93	183.93
NPC-MAPS	38.99	38.99	38.99	38.99	38.99	38.99	38.99	38.99	38.99	38.99
Talcher Stage 2	374.00	374.00	374.00	374.00	374.00	374.00	374.00	374.00	374.00	374.00
NTPC- Simhadri Stage I	940.00	940.00	940.00	940.00	940.00	940.00	940.00	940.00	940.00	940.00
NTPC- Simhadri Stage II	432.49	432.49	432.49	432.49	432.49	432.49	432.49	432.49	432.49	432.49
Kaiga (Nuclear) Plant I&II	121.37	121.37	121.37	121.37	121.37	121.37	121.37	121.37	121.37	121.37
Kaiga (Nuclear) Plant III&IV	128.54	128.54	128.54	128.54	128.54	128.54	128.54	128.54	128.54	128.54
Vallur Thermal Power Plant	206.87	206.87	206.87	206.87	206.87	206.87	206.87	206.87	206.87	206.87
Kalpakkam	116.16	116.16	116.16	116.16	116.16	116.16	116.16	116.16	116.16	116.16
Tutricorn	234.23	234.23	234.23	234.23	234.23	234.23	234.23	234.23	234.23	234.23
Kudigi I&II	-	-	703.12	703.12	703.12	-	-	703.12	703.12	703.12
Neyveli	-	-	-	104.60	104.60	-	-	-	104.60	104.60
Total Central Sector	3668.87	3668.87	4371.99	4476.60	4476.60	3668.87	3668.87	4371.99	4476.60	4476.60
Joint Sector Power										
APGPCL-I	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60
APGPCL-II	41.72	41.72	41.72	41.72	41.72	41.72	41.72	41.72	41.72	41.72
Total Joint Sector	57.32	57.32	57.32	57.32	57.32	57.32	57.32	57.32	57.32	57.32
IPPs (Independent Power Projects)										
GVK	209.52	209.52	209.52	209.52	209.52	209.52	209.52	209.52	209.52	209.52
Spectrum	198.85	198.85	198.85	198.85	198.85	198.85	198.85	198.85	198.85	198.85
Kondapalli	351.06	351.06	351.06	351.06	351.06	351.06	351.06	351.06	351.06	351.06
BSES	213.40	213.40	213.40	213.40	213.40	213.40	213.40	213.40	213.40	213.40
GVK Extension	213.40	213.40	213.40	213.40	213.40	213.40	213.40	213.40	213.40	213.40
Vemagiri	358.90	358.90	358.90	358.90	358.90	358.90	358.90	358.90	358.90	358.90

Generating Station/Source	APTRANSCO					APERC				
	2014-15	2015-16	2016-17	2017-18	2018-19	2014-15	2015-16	2016-17	2017-18	2018-19
Gowthami	450.08	450.08	450.08	450.08	450.08	450.08	450.08	450.08	450.08	450.08
Konaseema	430.76	430.76	430.76	430.76	430.76	430.76	430.76	430.76	430.76	430.76
Total IPPs	2425.97	2425.97	2425.97	2425.97	2425.97	2425.97	2425.97	2425.97	2425.97	2425.97
Non-Conventional Sources										
Bagasee	278.80	278.80	278.80	278.80	278.80	278.80	278.80	278.80	278.80	278.80
Biomass Power	248.00	248.00	248.00	248.00	248.00	248.00	248.00	248.00	248.00	248.00
Mini Hydel	105.64	105.64	119.64	133.64	147.64	105.64	105.64	119.64	133.64	147.64
Wind	1064.09	1564.09	2064.09	2264.09	2414.09	1064.09	1564.09	2064.09	2264.09	2414.09
Industrial Waste	30.16	31.16	32.16	33.16	34.16	30.16	31.16	32.16	33.16	34.16
Municipal	26.60	28.60	30.60	32.60	34.60	26.60	28.60	30.60	32.60	34.60
Solar	361.04	561.04	761.04	961.04	1161.04	361.04	561.04	761.04	961.04	1161.04
Total Non-Conventional	2114.33	2817.33	3534.33	3951.33	4318.33	2114.33	2817.33	3534.33	3951.33	4318.33
MPP (Mini Power Projects)										
Sri Vatsa Power Projects Limited	16.51	16.51	16.51	16.51	16.51	16.51	16.51	16.51	16.51	16.51
LVS Power Limited	35.33	35.33	35.33	35.33	35.33	35.33	35.33	35.33	35.33	35.33
Total MPPS	51.84	51.84	51.84	51.84	51.84	51.84	51.84	51.84	51.84	51.84
Others										
Hinduja	1040	1040	1040	1040	1040	1040	1040	1040	1040	1040
KSK Mahanadi	400	400	400	400	400	400	400	400	400	400
Singareni	-	1050	1050	1050	1050	-	1050	1050	1050	1050
Thermal Power Tech	-	500	500	500	500	-	500	500	500	500
Total Others	1440	2990	2990	2990	2990	1440	2990	2990	2990	2990
Open Access Generators	671.8	671.8	671.8	671.8	671.8	671.8	671.8	671.8	671.8	671.8
Third Party Sales	-	-	-	-	-	-	-	-	-	-
Grand Total	21761	24132	25553	26675	27782	21761	24132	25553	26675	27782

ANNEXURE - E**DETAILS OF RESIDUAL CAPITAL EXPENDITURE UPTO FY2012-13**

Capital Values		SLDC Capital Assets and its amortization phasing for ARR determination														
S.No.	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	G.Total
1	5.801	3.025														8.8267
2		1.319	1.031	0.716	0.374											3.4405
3		0.409	0.355	0.295	0.231	0.160	0.084									1.5339
4		0.445	0.397	0.344	0.287	0.224	0.156	0.081								1.9344
5		0.307	0.279	0.249	0.216	0.180	0.140	0.098	0.051							1.5185
6		0.218	0.201	0.183	0.163	0.141	0.118	0.092	0.064	0.033						1.2129
7		1.184	1.106	1.021	0.928	0.827	0.717	0.598	0.467	0.324	0.169					7.3418
8			0.557	0.521	0.481	0.437	0.389	0.338	0.281	0.220	0.153	0.080				3.4560
9				1.661	1.551	1.432	1.302	1.161	1.006	0.838	0.655	0.455	0.237			10.2990
10					0.427	0.399	0.368	0.335	0.298	0.259	0.215	0.168	0.117	0.061		2.6463
11	5.8012	6.9078	3.9257	4.9896	4.6566	3.8004	3.2745	2.7013	2.1676	1.6744	1.1923	0.7031	0.3543	0.0610	0.0000	42.2100
2013-14						15.8700	14.8254	13.6869	12.4458	11.0931	9.6186	8.0114	6.2595	4.3500	2.2687	
Total						19.6704	18.1000	16.3881	14.6134	12.7675	10.8109	8.7145	6.6139	4.4110	2.2687	

CAPITAL COST COMPUTED ON RESIDUAL CAPITAL EXPENDITURE UPTO FY2013-14

Amortization																
S.No.	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	G.Total
1	3.298	3.298														6.59559
2		0.407	0.407	0.407	0.407											1.62911
3		0.091	0.091	0.091	0.091	0.091	0.091									0.54707
4		0.089	0.089	0.089	0.089	0.089	0.089	0.089								0.61955
5		0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055							0.44350
6		0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036						0.32696
7		0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184					1.84450
8			0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087				0.86825
9				0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259			2.58745
10					0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066		0.66484
11	3.2978	4.1610	0.9500	1.2087	1.2752	0.8680	0.8680	0.7768	0.6883	0.6328	0.5965	0.4121	0.3252	0.0665	0.0000	
2013-14						2.4729	2.4729	2.4729	2.4729	2.4729	2.4729	2.4729	2.4729	2.4729	2.4729	
Total						3.3408	3.3408	3.2496	3.1611	3.1057	3.0694	2.8849	2.7981	2.5393	2.4729	

ANNEXURE - F**CAPITAL INVESTMENT PLAN FOR 3rd CONTROL PERIOD (Approved)
(Rs Cr.)**

Item	2014-15	2015-16	2016-17	2017-18	2018-19	Total
Opening Balance	19.67	19.14	18.57	18.04	17.54	92.96
New Investment						
GRID Operation	0.89	0.77	0.73	0.78	0.69	3.86
Commercial / EBC	0.40	0.40	0.40	0.40	0.40	2.00
Telecom	11.00	10.00	8.00	7.00	5.00	41.00
Power Systems	0.01	0.34	0.21	1.34	0.05	1.95
Total for New Investments (Rs. Crs.)	12.30	11.51	9.34	9.52	6.14	48.81
Grand Total (Rs. Cr.)	31.97	30.65	27.91	27.56	23.68	141.77

ANNEXURE - G**GENERATION CAPACITY COMPARATIVE STATEMENT, (MW)**

Financial Year	Distribution Companies		Other Generators, Open Access		Total Capacity in the State	
	FILING	APERC	FILING	APERC	FILING	APERC
2014-15	21089	21089	672	672	21761	21761
2015-16	23461	23461	672	672	24132	24132
2016-17	24881	24881	672	672	25553	25553
2017-18	26003	26003	672	672	26675	26675
2018-19	27110	27110	672	672	27782	27782

ANNEXURE - H**CAPITAL COST COMPARATIVE STATEMENT, (Rs. Cr.)**

Financial Year	Proposed Annual Investments		Capital Cost* on Proposed Investments		Capital Cost* on Previous Investments		Total Capital Cost	
	FILING	APERC	FILING	APERC	FILING	APERC	FILING	APERC
End of 2013-14	15.87	17.54	2.81	2.47	3.24	0.87	6.05	3.34
2014-15	42.04	12.30	7.44	2.18	6.05	3.34	13.49	5.52
2015-16	15.63	11.51	2.73	2.04	13.49	5.42	16.22	7.46
2016-17	15.24	9.34	2.66	1.65	16.22	7.38	18.88	9.03
2017-18	15.15	9.52	2.64	1.68	18.88	8.98	21.52	10.66
2018-19	0.88	6.14	0.16	1.09	21.52	10.62	21.68	11.71
Total	88.94	48.81	15.63	8.64	76.16	35.74	91.79	44.38

*The amount of amortized investments.

Notes: Column totals exclusive of first row. Totals may not tally due to rounding off.

ANNEXURE - I**OPERATING COST COMPARATIVE STATEMENT****(Rs. Cr.)**

Financial year	Employee Cost		A&G expenses		R&M expenses		Spl. Apprn. (True-up) 1 st control period	Surplus of 2 nd control period	Total Operating Cost	
	FILING	APERC	FILING	APERC	FILING	APERC			APERC	APERC
2014-15	58.81	42.94	6.37	12.28	8.17	8.17	(-)0.61	(-)0.68	72.66	62.10
2015-16	72.55	45.93	7.49	13.34	4.71	4.71			84.76	63.98
2016-17	89.52	49.04	8.82	14.49	5.39	5.39			103.73	68.92
2017-18	110.45	52.28	10.37	15.73	5.62	5.62			126.44	73.63
2018-19	136.27	55.65	12.21	17.09	5.37	5.37			153.85	78.10
Total	467.6	245.83	45.26	72.93	29.26	29.26	(-)0.61	(-)0.68	541.44	346.73

ANNEXURE - J**DISCOMS ANNUAL FEE AND OPERATING CHARGES COMPARATIVE STATEMENT**

Financial Year	Annual Fee (Rs/MW/Year)		Operating Charges (Rs/MW/Month)	
	FILING	APERC	FILING	APERC
2014-15	6199	2535.65	2783	2378.11
2015-16	6721	3092.78	2927	2209.34
2016-17	7389	3533.18	3383	2247.62
2017-18	8069	3995.39	3950	2300.31
2018-19	7804	4214.27	4615	2342.73

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