



TELANGANA STATE POWER GENERATION CORPORATION LIMITED
(A Govt. Of Telangana Undertaking)

Tariff Filings
Of
TSGENCO
For the control period
F.Y. 2019-2024

Volume 1 of 2

**BEFORE THE
TELANGANA STATE ELECTRICITY REGULATORY COMMISSION
AT HYDERABAD.**

O.P. of 2021

In the matter of:

Determination of capital cost for new stations and Generation Tariff for the existing and new stations for the control period (2019-24) under Section 62 of the Electricity Act, 2003 for the electricity supplied by TSGENCO to Distribution Licensees.

Telangana State Power Generation Corporation Limited,

Applicant

And

Southern Power Distribution Company of Telangana Ltd., & 2 Others

Respondents.

**VOLUME-1
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BEFORE THE TELANGANA STATE ELECTRICITY REGULATORY COMMISSION
#11-4-660, 5th Floor, Singareni Bhavan, Red Hills, Hyderabad – 500 004.

O.P. of 2021

In the matter of:

Determination of capital cost for new stations and Generation Tariff for the existing and new stations for the control period (2019-24) under Section 62 of the Electricity Act, 2003 for the electricity supplied by TSGENCO to Distribution Licensees.

And in the matter of:

**Telangana State Power Generation Corporation Limited, Vidyut Soudha, Khairatabad,
Hyderabad – 82. Applicant**

AND

1. **Southern Power Distribution Company of Telangana Ltd., Corporate office, 6-1-50,
Mint Compound, Hyderabad – 500 004.**
2. **Northern Power Distribution Company of Telangana Ltd.,
at H.No.2-5-31/2, Corporate Office, Vidyut Bhavan, Nakkalagutta, Hanmakonda,
Warangal – 506001**
3. **ESCOMs of Karnataka state**
BESCOM, Bangalore Electricity supply company limited, KR Circle, Bangalore-560001;
**MESCOM, Mangalore Electricity supply company limited , Paradigm Plaza, AB shetty
circle, Mangalore-575004;**
**CESC , Chamundeshwari Electricity supply corporation limited, Hinkal, Mysore-
570017;**
HESCOM, Hubli Electricity supply company limited, Navanagar, Hubli-580025;
GESCOM, Gulbarga Electricity supply company limited, Kalaburagi -585102

..... Respondents.

**APPLICATION U/S 62 / 64 ELECTRICITY ACT 2003 FOR DETERMINATION OF
GENERATION TARIFF & CAPITAL COST FOR THE CONTROL PERIOD(2019-24)**

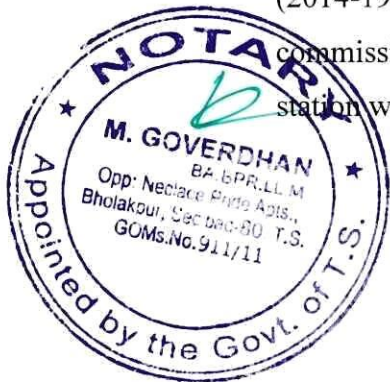
1. Telangana State Power Generation Corporation Limited (herein after referred to as
“TSGENCO “ or as the “Applicant”) was established as a company registered under
the Companies Act 2013 , 19th May 2014 upon coming into force of the Andhra
Pradesh Reorganization Act, 2014 with effect from 2nd June 2014.



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Chairman & Managing Director
Telangana State Power Generation Corporation Ltd.
Vidyut Soudha, Hyderabad - 500 082.

2. It is submitted that the Andhra Pradesh Reorganization Act, 2014 came into effect on 02.06.2014. Pursuant to the coming into force of the said Act, the then APGENCO was demerged and the assets, liabilities, etc., pertaining to the generating stations in Telangana State were transferred to the Telangana State Power Generation Corporation Ltd ("TSGENCO") in terms of the Transfer Scheme notified in G.O. Ms No. 29 dated 31/05/2014. The valuation of assets, liabilities etc are only provisional based on the accounts as on 31/03/2014. The transfer valuation is yet to be finalized as at 01/06/2014 considering all relevant factors.
3. In terms of the Andhra Pradesh Electricity Reform (Transfer Scheme) Rules, 1999, notified by the Government of Andhra Pradesh in G.O. Ms. No. 9, Energy (Power-III), dt.29.01.1999 and amended subsequently by notification in G.O. Ms. No. 11, Energy (Power-III), dt.31.01.2000, certain assets, liabilities, personnel and proceedings of the erstwhile Andhra Pradesh State Electricity Board which had vested in the State Government upon coming into force of the Reform Andhra Pradesh Electricity, 1998 Act, stood transferred and vested in TSGENCO which was incorporated on the 19th day of May, 2014 under the provisions of the companies Act, 2013 on the values, terms, conditions and consequences provided therein. The aforesaid transfer and vesting were binding on all, without any exception or recourse to anyone in terms of the provisions contained in the AP Re organization Act, 2014. Thereupon, the TSGENCO had been generating and supplying electricity to the Transmission Corporation of Telangana State so long as it was the distribution licensee or bulk supply licensee, and thereafter to the two distribution licensees of Telangana State.
4. As per the terms of the AP Reorganization Act, 2014 the erstwhile APGENCO was demerged provisionally and the TSGENCO has been established under companies Act, 2013. The applicant (TSGENCO) has filed the tariff application for the control period (2014-19). Subsequently, Generation Tariff Order has been issued by Hon'ble commission on 05.06.2017. Now the applicant is proposing the Multi Year Tariff on station wise for the Control period (2019-24).



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5. The Power Purchase Agreements (PPA) of generating stations in Telangana state entered with Erstwhile Distribution companies were transferred to TSGENCO in terms of G.O.MS. No. 29 dated 31.05.2014. Further, TSGENCO entered Power Purchase Agreements with TSDISCOMs in respect of KTPP Stage –II, KTPS Stage VII, BTPS and existing stations which were commissioned between 1956 and 1998, after demerger of APGENCO. The details of PPAs are tabulated below.

Table 1: The particulars of the PPAs:-

S.No	Name of the Generating station	Installed capacity (MW)	PPA Date	Valid Upto	Commissioning/ COD of units
1	KTPS- ABC	420(3X60+ 2X120)	17.09.2019	31.03.2020	04.07.1966 to 10.01.1978
2	KTPS Stage -V	500(2X250)	17.09.2019	31.03.2024	31.03.1997 to 28.02.1998
3	KTPS Stage- VI	1X500	22.12.2009	22.10.2036	23.10.2011
4	RTS -B	1X62.5	17.09.2019	31.03.2024	17.10.1971
5	KTPP Stage – I	1X500	22.12.2009	13.09.2035	14.09.2010
6	KTPP Stage II	1X600	27.01.2016	23.03.2041	24.03.2016
	Hydel Stations				
7	N' Sagar HES(Main power house & left canal)	875.6(1X110+ 7X100.8 & 2X30)	17.09.2019	31.03.2029	07.03.1978 to 27.09.1992
8	SLBHES	900(6X150)	17.09.2019	31.03.2029	26.01.2001 to 04.09.2003
9	Small Hydel (Singur, Pochampad, Nizam sagar & Palair HES)	54(2X7.5+ 3X9+2X5 & 1X2)	17.09.2019	31.03.2029	07.03.1978 to 31.03.2000




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10	Mini hydel (Peddapalli HES)	9.16(6X0.22+ 3X0.23+ 2X0.325+ 10X0.5+ 2X0.75)	17.09.2019	31.03.2029	31.03.1986 to 29.01.2004
11	Pochampad -II	9	22.12.2009	11.10.2045	12.10.2010
12	Priyadharshini Jurala HES	234(6X39)	19.05.2014	03.08.2046	31.08.2008 to 04.08.2011
13	Lower Jurala HES	240(6X40)	30.12.2010	30.09.2051	19.10.2015 to 01.10.2016
14	Pulichinthala HES	120(4x30)	30.12.2010	07.09.2053	29.09.2016 To 08.09.2018

	New Stations	Installed capacity (MW)	PPA Date	Valid Up to	Commissioning/ COD of units
15	KTPS Stage VII	1X800	19.03.2018	25.12.2043	26.12.2018
16	BTPS	4X270	17.09.2019	25 years from Station COD.	COD I: 05.06.2020 II: 07.12.2020 Proposed III: Jan 2021 IV: Mar 2021

Note : The PPAs at Sl. No.12 were entered with Erstwhile APDISCOMs and ESCOMs of Karnataka separately by Erstwhile APGENCO and the fixed charges and the energy generated being shared in the ratio of 50:50 between TSDISCOMs and ESCOMs of Karnataka State.

6. The present application is for determination of station wise tariff for the energy generated by TSGENCO and supplied to the two distribution licensees of Telangana which have confirmed their willingness to purchase the entire capacity and generation of TSGENCO during the control period (2019-24).

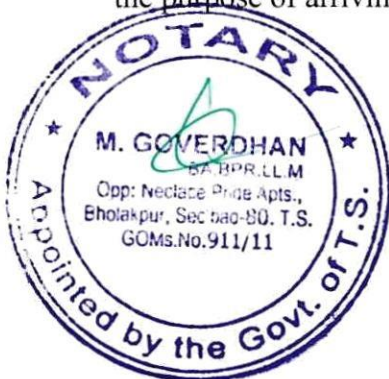


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7. In the event that any issues, including but not limited to matters of valuation of assets and/or liabilities, arising out of bifurcation of the undivided State, whether pending or arising hereafter, are resolved in a matter that effects any aspect of determination of tariff, it would be necessary that adjustment for such effect be made during the course of the control period in such manner as the Hon'ble Commission may decide.

Scope of Application

8. This application is for the Determination of capital cost for new projects and station wise Tariff for the entire electricity Generated by TSGENCO at its Generating stations situated in Telangana State and supplied to the Distribution licensees of Telangana State at the respective Generating station bus within the Telangana State except Priyadarshini Jurala HES, where the fixed charges and the energy generated will be shared in the ratio of 50:50 between TSDISCOMs and ESCOMs of Karnataka State.
9. The proposal comprises station wise annual fixed charges/Capacity charges and station wise energy charges based on the operating norms & certain Terms and Conditions of TSERC Regulations, 2019.
10. The application is made in terms of the Telangana State Electricity Regulatory Commission (Terms and conditions of Generation Tariff) Regulations, 2019.
11. It is submitted that the Applicant is proposing capital cost for new stations and station-wise fixed costs in respect of existing and new generating stations for the 4th control period (2019-24). The Applicant has adopted a methodology as set out hereunder for the purpose of arriving tariff.



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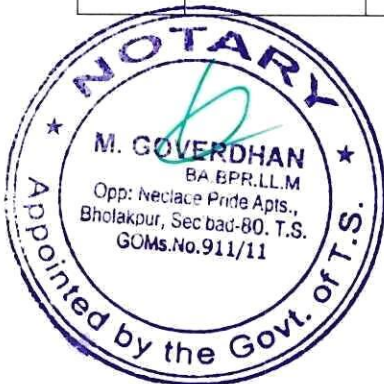
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a. The details of Gross Fixed Assets (GFA) of existing and new stations for the control period (2019-24) are tabulated below.

Table 2. Station wise Gross Fixed Assets along with additions

(Rs. in Crs.)

SL.No	Name of the Station	Capacity MW	GFA as on 01.04.2019	Additions 2019-20	Additions 2020-21	Additions 2021-22	Additions 2022-23	Additions 2023-24	Addition 2019-24
1	KTPS O&M	420	773.2		0.00	0	0	0	0
2	KTPS-V	500	2159.05	7.78	79.42		0	0	87.2
3	KTPS VI	500	2530.95	0	0	0	0	0	0
4	RTS -B	62.5	127.53	0	0	0	0	0	0
5	KTPP -I	500	2587.76	0	0	0	0	0	0
6	KTPP-II	600	3405.82	38.95	444.44	134.32	36.64	26.39	680.74
7	KTPS-VII	800	4605.02	252.17	663.67	458.64	231.78	194.08	1800.34
8	BTPS	1080	0	6073.05	2749.99	1136.39	-	-	9959.43
9	NSHES	875.6	1948.75	0	0	0	0	0	0
8	SLBHES	900	3376.06	0	0	0	0	0	0
10	Small Hydel	54	121.02	0	0	0	0	0	0
11	Mini Hydels	9.16	31.35	0	0	0	0	0	0
12	Pocham -II	9	29.74	0	0	0	0	0	0
13	PJHES	234	691.91	0	0	0	0	0	0
14	LJHES	240	1555.9	5.02	50.67	28.15	17.87	18.7	120.41
15	PCHES	120	445.3	7.34	20.29	9.27	9.15	9.5	55.55
	IT(SAP/FLM) initiatives			0.70	5.50	15.00	5.00	1.00	27.20
	Total	6904.26	24389.359	6384.31	4008.48	1766.77	295.44	248.67	12730.8




 Chairman & Managing Director
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b. New stations

BTPS

Bhadradri Thermal Power Station (4X270MW) has been constructed at Ramanujavaram (v), Manuguru (m), Bhadradi Kothagudem district. The Capital expenditure incurred up to FY2019-20 is Rs 6073.05 Crores.

12. Parameters for Tariff Determination

1. Depreciation.
2. Interest and finance charges on loan.
3. Interest on working Capital
4. Return on Equity.
5. Operation and Maintenance Expenses.

Minus
Non Tariff Income.

12.1 Depreciation

New stations

- i. Depreciation is computed @5.28% on capital cost of the project.

Existing stations

- ii. The Depreciation is computed @5.28% on the capital cost of the respective stations which have not completed 12 years.
- iii. In case the stations have completed 12 years, the remaining depreciable value spread over equally over the balance useful life of the project.

12.2 Interest and finance charges on loan.

The interest on loan is computed as per the weighted average rate of interest for actual loan portfolio of respective stations.

12.3 Interest on Working Capital

- Station-wise Working Capital is computed in accordance with Clause 13.1 of TSERC Regulations 1 of 2019.



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- Rate of Interest on working capital is considered as SBI MCLR as on 1st April 2019+350 basis points (MCLR as on 01.04.2019 is 8.55%) i.e. 12.05% (8.55%+3.5%) as per CERC 2019 Regulations.
- Maintenance spares are computed for thermal stations @20% of the O&M expenditure & for Hydel stations @15% of the O&M expenditure.

The summary of station-wise working capital is furnished in the Annexure A-2 hereto

12.4 Return on Equity (RoE):

- RoE is computed as per TSERC regulations 1 of 2019 Regulations.
- Debt-Equity Ratio (D/E) is taken as 70:30 as per Clause 9 of the Regulations
- The actual Equity deployed is less than 30% of the capital cost of the project, actual equity has considered for determination of Tariff.
- The actual equity deployed is more than 30% of the capital cost of project, equity in excess of 30% has considered as notional loan of the Generating Entity.
- Rate of pre-tax Return on the Equity is computed in the range from 18.78% to 19.99% based on the Minimum Alternate Tax (MAT) (17.472%) and base rate of RoE from 15.5% to 16.5% (the base of RoE for the thermal and run-of-river stations is considered as 15.5% and for hydel stations with pondage is 16.5%.The RoE is considered as 16% in respect of KTPS Stage VII since it has been constructed within the time line (The additional return of 0.5% is allowed)).

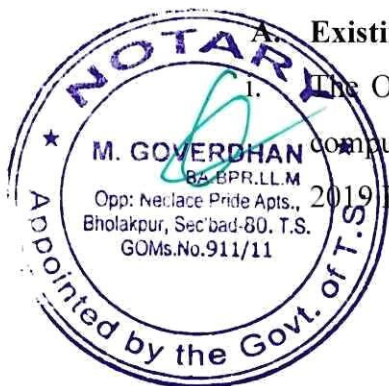
$$\text{Rate of pre-tax return on equity} = \text{Base rate} / (1 - \text{MAT})$$

The summary of the station-wise computation of RoE is furnished at Annexure A3.

12.5 Operation & Maintenance expenses (O&M):

A. Existing stations:

The O&M expenses for the existing stations on each year of the Control Period is computed based on the following formula in accordance with the clause 19 of TSERC 2019 Regulations:



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Vidyut Soudha, Hyderabad - 500 082.

$$O\&Mn = (R\&Mn + EMPn + A\&Gn) \times 99\%$$

Where,

EMPn - Employee Cost for the n^{th} year;

R\&Mn - Repair and Maintenance Costs for the n^{th} year;

A\&Gn - Administrative and General Costs for the n^{th} year;

- ii. The Employee cost for the first Year of the Control Period is computed by escalating the average of the employee cost of the immediately preceding Control period (2014-19) with the CPI inflation factor. The employee cost for the subsequent Year escalated by CPI inflation factor with the preceding Year employee cost and so on. The details are furnished in Annexure A5-I.
- iii. CPI inflation is the point to point change in the Consumer Price Index for Industrial Workers (all India) as per Labour Bureau, Government of India, as reduced by an efficiency factor of 1% for immediately preceding Year (FY2018-19).
- iv. R&M expenditure for the n^{th} year is arrived by multiplying GFA of the n^{th} year with 'K' & WPI inflation factor ('K' is the immediate preceding control period (2014-19) average (expressed in %) governing relation between R&M and GFA). The details are furnished in Annexure - A5-II.
- v. WPI inflation is the point to point change in Wholesale Price Index (WPI) for Immediately preceding Year (FY 2018-19).
- vi. A&G expense for the first Year of the Control Period is computed by escalating average of the audited A&G expense of the immediately preceding 3 Financial Years (2016-19) with the Inflation factor. The A&G expense for the subsequent Year is escalating the preceding Year A&G expenses with the inflation factor. The details are furnished in Annexure -A5-III.
- vii. The inflation factor = $0.5 \times (\text{CPI inflation factor} + \text{WPI Inflation factor}) \times 99\%$
- viii. The CPI inflation, WPI inflation & Inflation factor for the FY 2018-19 are 5.40%, 4.26% & 4.81% respectively. The same are considered for arriving the employee cost, R&M expenses and A&G expenses respectively for the entire control period (2019-24).
- ix. The provisions towards Terminal benefits have included in the Employee cost for the period FY2014-19. Proposed Terminal Liabilities such as leave encashment, medical reimbursement in respect of pensioners for the control period 2019-24 claimed on actual basis.



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- x. The expenses incurred on medical and other expenses are excluded from Operating Maintenance expenses and recorded separately.
- xi. The one time expected expenses, such as implications of PRC 2018 and artisan salaries for the FY2018-19 excluded from the employee cost and considered under Provisions for the control period 2019-24.

B. New stations:

The O&M expenses are computed in respect of KTPS Stage VII & BTPS according to the CERC Regulation 2019. Further, the employee cost on account of the Pay Revision Commitment- 2018 is included in the O&M cost (The impact of PRC-2018 on employee cost is 40% translates to 20% increase in the O&M cost).

The summary of the computation of O & M expenses are furnished in the Annexure A-5.

12.6 Non Tariff Income

The Non Tariff Income from Existing & new stations is proposed as zero. Further, the actual non tariff income will be filed while submission of Mid term review petition before Hon'ble Commission.

12.7 Other Expenditure: Interest on pension bonds Over and above scheduled interest

- I. The liability of Rs 4386.95 Crores towards meeting the pension liability of the following was vested in the erstwhile APGENCO in terms of the statutory First Transfer Scheme dated 30/01/2000 notified by the State Government under the AP Electricity Reforms Act, 1998 –
 - (a) the pensioners / family pensioners of the erstwhile APSEB as on 31/03/1999 and
 - (b) the employees of the erstwhile APSEB as on 31/03/1999 working thereafter for the erstwhile APGENCO, APTRANSCO and the DISCOMs and since retired.

The erstwhile APGENCO had issued bonds in favour of the Master Trust which are redeemable over a period of 30 years.

In order that the Master Trust is liable to pay 100% of the pension commitments of pensioners as on 31/01/1999 and 74% of the pension commitment of employees who retired after 01/02/1999 (26% being funded by the separate P&G Trusts of the erstwhile APGENCO, APTRANSCO and the 4 DISCOMs), the APGENCO is required to make the following annual payments as per the bond schedule –



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- (a) An amount towards repayment of the principal as per the bond schedule, and
 - (b) Interest on the outstanding liability as per the bond schedule, and
 - (c) Additional interest, being the actual amount of pension payment in a year in excess of the aggregate for that year of the scheduled repayment and interest aforesaid as per the bond schedule, which is passed through in the tariff.
- II. The additional interest has been recognized and allowed in the tariff on a year to year basis to TSGENCO by the Hon'ble TSERC in the Generation Tariff Order (GTO) dated: 05.06.2017.
- III. By a transfer scheme notified by the State Government in G.O.Ms. 29 dated 31/05/2014 under the provisions of the A.P. Electricity Reforms Act, 1998, 42% of the outstanding pension liability (i.e. bonds issued to the Master Trust) as on 31/03/2014 was vested in the TSGENCO with the corresponding obligations for repayment, payment of interest and payment of additional interest, and it was considered that the additional interest would pass through in the generation tariff of TSGENCO.
- IV. Accordingly, the additional interest on estimate basis is considered as a pass through in the tariff as part of fixed cost subject to adjustment for actuals on a year to year basis.
- V. The above additional interest is in addition to the yearly contributions being made to the TSGENCO's P&G Trust for funding the 26% Pension and gratuity Liability for its employees who were in service as on 01/02/1999 and retiring thereafter and also gratuity liability for its employees who were recruited after 01/02/1999 which are included as part of O & M expenses.

13. Incentives & Secondary Energy charges

The incentives for generation beyond the Target Plant Load Factor for thermal generating stations and the secondary energy charges for generation beyond the design energy for hydel generating stations shall be claimed annually at the rates specified in the Regulations.



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14. Reservation

Nothing in this application be construed as any admission or to prejudice any disputes, issues, dissensions or contentions of the TSGENCO and/or the State of Andhra Pradesh, whether raised hitherto or hereafter, on any matter arising out of the provisions of the A.P. Reorganization Act, 2014, or otherwise, including but not limited to issues relating to the supply of power from the TSGENCO generating stations to the Distribution Companies or the validity of the PPAs.

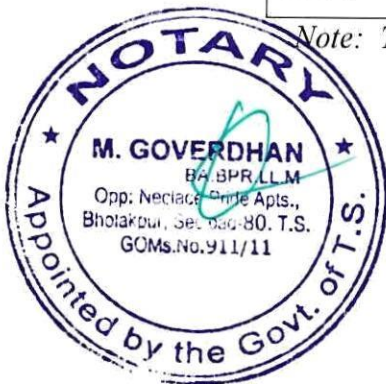
Nothing in this application be construed to limit or affect the provisional nature of any valuation of any asset or liability by or under any transfer scheme or otherwise, and provision may be made to give full consequential effect for any variation or upon any finalization of the same hereafter.

15. Variable Costs

- The Variable costs for the energy supplied from the thermal generating stations are computed on the basis of the operating norms specified in the TSERC Regulations, 2019 and in accordance with the provisions of Clause 17 and 21.6 of the Regulation.
- The station wise weighted average variable costs of FY 2019-20 are considered for the purpose of computation of working capital for the control period (2019-24).

Station	Variable cost (paise/kwh) Wt.avg FCA (2019-20)
KTPS O&M	3.32
KTPS V	2.76
KTPS -VI	2.73
RTS-B	3.04
KTPP-I	3.02
KTPP-II	2.90
KTPS-VII	2.55
BTPS	2.55

Note: The variable cost of BTPS is considered same as KTPS Stage VII.



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16. Generation Tariff for the 4th Control period (2019-24):-

The proposed fixed charges of TSGENCO stations are summarized below:

Table 3: Fixed charges

(Rs in Crs)

S.No	Name of the Station	Capacity MW	2019-20	2020-21	2021-22	2022-23	2023-24	2019-24
1	KTPS O&M	420	703.22	0.00	0.00	0.00	0.00	703.22
2	KTPS-V	500	422.96	417.27	427.11	420.91	326.91	2015.17
3	KTPS VI	500	555.70	556.85	558.28	559.30	444.12	2674.25
4	RTS -B	62.5	121.75	125.01	128.53	132.17	135.16	642.63
5	KTPP-I	500	504.93	499.64	492.48	485.76	349.61	2332.43
6	KTPP Stage -II	600	788.79	755.22	869.27	899.54	893.96	4206.77
7	KTPS-VII	800	1025.77	1040.34	1124.98	1226.68	1268.77	5686.55
8	BTPS	1080	0.00	602.56	2201.16	2436.44	2389.89	7630.06
9	Nagarjuna Complex	875.6	363.19	361.68	360.47	359.58	359.02	1803.94
10	Srisaillam LBHES	900	472.61	469.69	467.02	464.62	462.50	2336.44
11	Small Hydel	54	50.16	51.83	53.53	55.14	56.83	267.49
12	Mini Hydels	9.16	10.09	10.28	10.50	10.73	10.99	52.59
13	Pochampad Stage -II	9	11.19	11.36	11.54	11.75	10.82	56.65
14	Priya dharshini Jurala	234	146.92	144.95	143.09	141.35	139.72	716.03
15	Lower Jurala	240	281.86	274.97	279.28	276.46	270.91	1383.48
16	PCHES	120	130.00	131.22	135.08	136.78	138.55	671.62
	Total	6904.26	5589.13	5452.86	7262.33	7617.22	7257.75	33179.29
	Additional Interest on pension bonds (Over and above schedule)		1080.07	1175.11	1281.34	1394.83	1517.03	6448.38
	Provisions		61.06	96.71	114.23	103.7	113.33	489.04
	Grand Total	6904.26	6730.26	6724.69	8657.90	9115.75	8888.11	40116.71



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17. Payment Mechanism

- (a) All taxes, duties, cess, fee payable to Government on the generation and/or supply of electricity and/or auxiliary consumption shall be extra and payable at actuals.
- (b) Revolving Letter of Credit to be opened by the beneficiary for an amount of one month's receivable, and thereupon the applicable rebate be allowed.

(c) Surcharge:

1.25% per month as surcharge for belated payment may be allowed.

(d) Billing and payment of charges:

Billing and payment of charges shall be done on monthly basis.

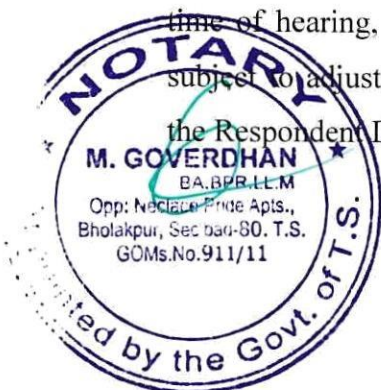
18. Payment of Application Fee:-

The Applicant has submitted the DD No.326181 dt.12.01.2021 SBI, Vidyut Soudha Branch, Hyderabad for Rs 150 lakhs towards fee for determination of tariff along with the Application.

19. Prayer for Interim Tariff

It is necessary that the Petitioner be provided with a legal basis for the claim and recovery of fixed, variable and other costs and amounts pending final disposal of this Application for determination of tariff and determination of Capital cost of new stations (KTPP Stage-VII & BTPS). The basis for the interim tariff could reasonably be the fixed costs and variable charges considered by the Hon'ble Commission in determining the power purchase costs in the Retail Supply Tariff Orders passed by the Hon'ble Commission for FY 2018-19 and ARR proposal submitted by TSGENCO for FY 2020-21.

For the above reasons and for such other grounds and reasons as may be urged at the time of hearing, the Applicant prays that, pending disposal of this Application and subject to adjustment thereupon, the Hon'ble Commission may be pleased to direct the Respondent DISCOMs to pay to the Applicant for FY 2019-20 and **FY 2020-21**.



(Handwritten signature)

Chairman & Managing Director
Telangana State Power Generation Corporation Ltd.
Vidyut Soudha, Hyderabad - 500 082.

Variable costs for the energy delivered by the Applicant to the Respondent DISCOMs from 01/04/2019 at the various rates set out in ANNEXURE-7 of the Retail supply Tariff Order dated 27/03/2018 for FY 2018-19 passed by the Hon'ble Commission duly adjusted for actual gross calorific value of the fuel and the actual landed costs of fuel for each month; and Variable costs for the energy delivered by the Applicant to the Respondent DISCOMs from 01/04/2020 at the various rates set out in ANNEXURE-III (c) of the ARR proposal dated 25/11/2019 for FY 2020-21 submitted by TSGENCO duly adjusted for actual gross calorific value of the fuel and the actual landed costs of fuel for each month; and

Incentives for generation as eligible on the basis of actual generation; and / or such other order as the Hon'ble Commission may consider fit and expedient in the facts and circumstances of the case.

20. *Main Prayer*

For the above reasons and for such other and/or further reasons and grounds as may be urged at the time of hearing, the Applicant prays that the Hon'ble Commission may be pleased to

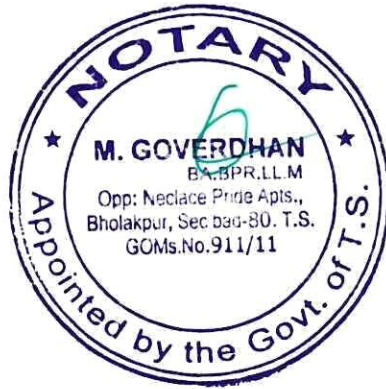
- a. Condone delay for filing Petition for Determination of capital cost and Generation Tariff for the existing and new TSGENCO stations for the control period (2019-2024) in the aforesaid facts and circumstances;
- b. Accept and take on record the Application for Determination of Tariff for the existing stations and capital cost & tariff of the new projects for the 4th control period (2019-2024) under sections 62 of Electricity Act 2003; and
- c. Direct the Applicant to publish the application by notice as required by section 64, as per the draft annexed at Annexure A-7 to the Application, or in such other form as may be specified by the Hon'ble Commission, in two English, two Telugu and urdu daily news papers as may be specified by the Hon'ble Commission; and



b. h. d.

Chairman & Managing Director
Telangana State Power Generation Corporation Ltd.
Vidyut Bhudha, Hyderabad - 500 082.

- d. Determine the tariff for the control period (2019-2024) for the supply of electricity generated by the Applicant from its various power generating stations to the Distribution Licensees at the rates proposed by the Applicant and/or as otherwise determined by the Hon'ble Commission in accordance with law and/or as the Hon'ble Commission considers fit in the facts and circumstances of the case.
- e. Condone any error/ omission and to give opportunity to rectify the same;



b. h. e.
Signature of the applicant
Chairman & Managing Director
TSGENCO

Chairman & Managing Director
Telangana State Power Generation Corporation Ltd.
Vidyut Soudha, Hyderabad - 500 082.

**BEFORE THE
TELANGANA STATE ELECTRICITY REGULATORY COMMISSION
AT HYDERABAD**

O.P. of 2021

In the matter of:

Determination of capital cost for new stations and Generation Tariff for the existing and new stations for the control period (2019-2024) under Section 62 of the Electricity Act, 2003 for the electricity supplied by TSGENCO to Distribution Licensees.

And in the matter of:

**Telangana State Power Generation Corporation Limited,
Vidyut Soudha, Hyderabad 500082.**

And

Applicant

1. **Southern Power Distribution Company of Telangana Ltd.,** Mint Compound, Corporate office,# 6-1-50, Hyderabad 500 004
2. **Northern Power Distribution Company of Telangana Ltd.,** at H.No.2-5-31/2, Corporate Office, Vidyut Bhavan, Nakkalagutta, Hanmakonda, Warangal – 506001
3. **ESCOMs of Karnataka state, Bangalore.**

BESCOM, Bangalore Electricity supply company limited, KR Circle,Bangalore-560001;
MESCOM, Mangalore Electricity supply company limited , Paradigm Plaza, AB shetty circle, Mangalore-575004;
CESC, Chamundeshwari Electricity supply corporation limited, Hinkal, Mysore-570017;
HESCOM, Hubli Electricity supply company limited, Navanagar, Hubli-580025;
GESCOM, Gulbarga Electricity supply company limited, Kalaburagi -585102

Respondents

AFFIDAVIT VERIFYING THE APPLICATION

I D. Prabhakar Rao, son of shri. D.Pashupathi Rao, working for gain at Telangana State Power Generation Corporation Ltd. do solemnly affirm and say as follows:

- a) I am the Chairman and Managing Director of Telangana State Power Generation Corporation Ltd being a company in the business of generating electricity in state of Telangana. I am competent and duly authorized by Telangana state Power Generation



b. u. d.
 Chairman & Managing Director
 Telangana State Power Generation Corporation Ltd.
 Vidyut Soudha, Hyderabad - 500 082.

Corporation Ltd. to affirm, swear, execute and file this affidavit in the present proceedings

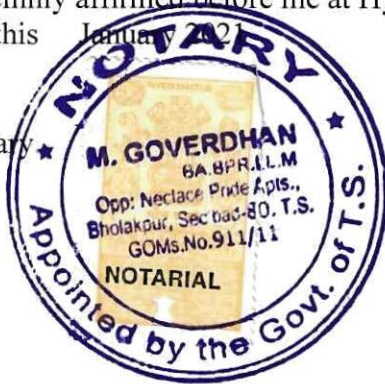
b) I have read and understood the contents of the accompanying filing of proposals for determination of tariff for supply of electricity by Telangana State Power Generation Corporation Ltd. for the control period (2019-2024). The statements made in the paragraphs of the accompanying application now shown to me are true to the best of my Knowledge derived from the official records made available to me and are based on information and advice received which I believe to be true and correct.

b. u. l.
Deponent

Chairman & Managing Director
Telangana State Power Generation Corporation Ltd.
Vidyut Soudha, Hyderabad - 500 082.

Solemnly affirmed before me at Hyderabad
On this 27 January 2021

Notary



ATTESTED

M. Goverdhan
M. GOVERDHAN
BA.,BPR,LL.M
H.No.6-4-353/4, (GOMS 911/11)
Opp Neelace Pride Apts, Bholakpur,
SECUNDERABAD-500 080 T.S.
VERIFICATION:

27 JAN 2021

I, the above named Deponent solemnly affirm at Hyderabad on this 27 Day of January 2021 that the contents of the above affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.

Entered In the Notarial Register

Sl.No. 9 Page No. 72 DL

b. u. l.
Deponent

Chairman & Managing Director
Telangana State Power Generation Corporation Ltd.
Vidyut Soudha, Hyderabad - 500 082.

ANNEXURE-A7**BEFORE THE****TELANGANA STATE ELECTRICITY REGULATORY COMMISSION
5th FLOOR, SINGARENI BHAVAN, RED HILLS, HYDERABAD****PUBLIC NOTICE**

Notice is hereby given to all that Telangana State Power Generation Corporation Ltd.(TSGENCO), a company in the business of generation of electricity, has submitted the Application for Determination of Tariff for supply of Electricity to Distribution Licensees for the control period (2019-24) which has been taken on record by the Hon'ble Commission in **OP No of 2021.**

A copy of the Application together with all annexures thereto is available on the website of TSGENCO at www.tsgenco.co.in and on the website of the TSERC at WWW.TSERC.GOV.IN. Copies of the Application may be obtained on written application from the Chief Engineer (Coal & Commercial), TSGENCO, Vidyut Soudha, Hyderabad 500082 by e-mail free of cost or as hard copy on payment of the cost of photo-copying and postage if any. The Application may also be inspected at the aforesaid office.

Objections or suggestions if any on tariffs proposed by TSGENCO, together with supporting material may be filed with the Secretary, TSERC, at the address mentioned above, in person or through Registered Post, so as to reach him on or before _____, along with proof of service of the same on Chief Engineer (Coal & Commercial), TSGENCO, Vidyut Soudha, Hyderabad 500082. The objections/suggestions should be filed duly signed and should carry full name and postal address of the person(s) sending the objections/suggestions. If the objections are filed on behalf of any organization or any category of consumers, it should be so mentioned and if the objector also wants to be heard in person, it may also be specifically mentioned so.

After perusing the objections/suggestions received, the Hon'ble Commission may notify the dates for hearing as it considers appropriate.


BY ORDER OF THE COMMISSION
CHAIRMAN AND MANAGING DIRECTOR,
TSGENCO

Hyderabad, (Date)

Annexure A-I														
GFA with additions (FY 2019-20 to 2020-24)														
SL.No	Name of the Station	Capacity MW	GFA as on 01.04.2018	Additions in 2018-19	GFA as on 01.04.2019	Additions in 2019-20	GFA as on 01.04.2020	Additions in 2020-21	GFA as on 01.04.2021	Additions in 2021-22	GFA as on 01.04.2022	Additions in 2022-23	Rs in Crs	
													GFA as on 01.04.2023	Additions in 2023-24
1	KTPS O&M*	420	1112.87	21.85	773.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	KTPS-V	500	2135.66	23.39	2159.05	7.78	2166.83	79.42	2246.25	0.00	2246.25	0.00	2246.25	0.00
3	KTPS VI	500	2519.93	11.01	2530.95	0.00	2530.95	0.00	2530.95	0.00	2530.95	0.00	2530.95	0.00
4	RTS -B	62.5	93.26	34.28	127.53	0.00	127.53	0.00	127.53	0.00	127.53	0.00	127.53	0.00
5	KTPP-Stage -I	500	2587.51	0.25	2587.76	0.00	2587.76	0.00	2587.76	0.00	2587.76	0.00	2587.76	0.00
6	KTPP-II	600	3360.74	45.09	3405.83	38.95	3444.78	444.44	3889.22	134.32	4023.54	36.64	4060.17	26.39
7	KTPS-VII	800	4604.92	0.098	4605.02	252.17	4857.19	663.67	5520.86	458.64	5979.50	231.78	6211.28	194.08
8	BTPS	1080	0.00	0.00	0.00	6073.05	6073.05	2749.99	8823.04	1136.39	9959.43	0.00	9959.43	0.00
9	Nagarjuna Complex (Main & Left canal power House)	875.6	1948.10	0.65	1948.75	0.00	1948.75	0.00	1948.75	0.00	1948.75	0.00	1948.75	0.00
10	Srisailem LBHES	900	3376.06	0.00	3376.06	0.00	3376.06	0.00	3376.06	0.00	3376.06	0.00	3376.06	0.00
11	Small Hydel (Pochampad -I, Singur , Nizam sagar & Palair HES)	54	120.84	0.18	121.02	0.00	121.02	0.00	121.02	0.00	121.02	0.00	121.02	0.00
12	Mini Hydels(Peddapally)	9.16	31.35	0.00	31.35	0.00	31.35	0.00	31.35	0.00	31.35	0.00	31.35	0.00
13	Pochampad Stage -II	9	29.74	0.00	29.74	0.00	29.74	0.00	29.74	0.00	29.74	0.00	29.74	0.00
14	Priya dharshini Jurala	234	689.79	2.12	691.91	0.00	691.91	0.00	691.91	0.00	691.91	0.00	691.91	0.00
15	Lower Jurala HES	240	1549.18	6.72	1555.90	5.02	1560.92	50.67	1611.59	28.15	1639.74	17.87	1657.61	18.70
16	Pulichinthala HES	120	442.63	2.68	445.31	7.34	452.65	20.29	472.94	9.27	482.21	9.15	491.36	9.50
	Grand Total	6904.26	24602.57	148.31	24389.36	6384.31	30000.47	4008.48	34008.95	1766.77	35775.72	295.43	36071.15	248.67

Note: In respect of KTPS O&M the Installed capacity for the FY 2018-19 is 616.38MW ,GFA is computed on pro rata basis .

GFA for 616.38MW is Rs. 1112.87Cr and for 420MW is Rs. 773.20 for FY2019-20.


* For KTPP-II ,LJHES and PCHES , the GFA is computed based on the audited capital expenditure excluding the amount dis allowed by the Hon'ble commission in the GTO 2014-19

Annexure-A2							
Working Capital (FY2019-20)							
Sl.No	Name of the Station	Capacity (MW)	Cost of Fuel (30 days)	O&M (1Month)	Maintenance Spares	Receivables (2 Months)	Working Capital
							Rs in Cr
1	KTPS (O&M)	420	71.45	46.75	112.21	260.10	490.51
2	KTPS Stage-V	500	80.81	16.73	40.16	232.12	369.83
3	KTPS Stage-VI	500	79.93	16.80	40.32	252.49	389.54
4	RTS -B	62.5	10.43	7.47	17.94	41.15	77.00
5	KTPP Stage - I	500	88.43	13.69	32.86	261.01	395.98
6	KTPP Stage- II	600	101.89	15.19	36.45	335.25	488.78
7	KTPS Stage-VII	800	126.93	14.58	35.00	424.82	601.33
8	BTPS		0.00	0.00	0.00	0.00	0.00
9	Nagarjuna Sagar Complex HES	875.6	0.00	9.35	16.82	60.53	86.70
10	Srisailem LBHES	900	0.00	7.84	14.11	78.77	100.72
11	Small Hydel Pochampad -I, Singur , Nizam sagar& Palair HES)	54	0.00	3.08	5.55	8.36	16.99
12	Mini Hydel (Peddapally HES)	9.16	0.00	0.52	0.94	1.68	3.15
13	Pochampad Stage -II	9	0.00	0.51	0.92	1.86	3.30
14	Priya Dharshini Jurala HES	234	0.00	3.12	5.61	24.49	33.22
15	Lower Jurala HES	240	0.00	2.42	4.35	46.98	53.75
16	Pulichinthala HES	120	0.00	3.71	6.67	21.67	32.05
	Grand Total	5824.26	559.88	161.77	369.92	2051.27	3142.84


 Chief Engineer
 Coal & Commercial
 TSGENCO. V.S., Hyderabad-82


Annexure-A2							
Working Capital(FY2020-21)							
	Name of the Station	(Rs in Crs)					
Sl.No	Thermal Station	Capacity	Cost of Fuel (30 days)	O&M (1 Month)	Maintenance Spares	Recievables (2 Months)	Working Capital
1	KTPS Stage-V	500	80.59	17.49	41.96	230.73	370.77
2	KTPS Stage-VI	500	79.72	17.54	42.10	252.24	391.60
3	RTS -B	62.5	10.40	7.83	18.80	41.64	78.67
4	KTPP Stage - I	500	88.18	14.30	34.31	259.64	396.43
5	KTPP Stage- II	600	101.62	15.90	38.15	329.10	484.76
6	KTPS Stage-VII	800	126.58	15.10	36.23	426.55	604.46
7	BTPS	1080	170.89	36.85	88.44	616.29	912.46
8	Nagarjuna Sagar Complex HES	875.6	0.00	9.79	17.62	60.28	87.69
9	Srisaillam LBHES	900	0.00	8.22	14.79	78.28	101.29
10	Small Hydel (Pochampad -I, Singur , Nizam sagar& Palair HES)	54	0.00	3.24	5.83	8.64	17.71
11	Mini Hydel (Peddapally HES)	9.16	0.00	0.55	0.99	1.71	3.25
12	Pochampad Stage -II	9	0.00	0.54	0.97	1.89	3.40
13	Priya Dharshini Jurala HES	234	0.00	3.28	5.90	24.16	33.34
14	Lower Jurala HES	240	0.00	2.54	4.57	45.83	52.94
15	Pulichinthala HES	120	0.00	3.90	7.03	21.87	32.80
	Grand Total	6484.26	657.98	157.05	357.70	2398.85	3571.58

Annexure-A2							
Working Capital(FY2021-22)							
Sl.No	Name of the Station	Capacity (MW)	Cost of Fuel (30 days)	O&M (1Month)	Maintenance Spares	Recievables (2 Months)	(Rs in Crs) Working Capital
1	KTPS Stage-V	500	80.59	18.37	44.09	232.37	375.43
2	KTPS Stage-VI	500	79.72	18.32	43.97	252.48	394.49
3	RTS -B	62.5	10.40	8.21	19.70	42.23	80.54
4	KTPP Stage - I	500	88.18	14.93	35.84	258.45	397.41
5	KTPP Stage- II	600	101.62	16.94	40.66	348.11	507.33
6	KTPS Stage-VII	800	126.58	15.63	37.52	440.66	620.39
7	BTPS	1080	170.89	38.13	91.52	708.63	1009.18
8	Nagarjuna Sagar Complex HES	875.6	0.00	10.26	18.46	60.08	88.80
9	Srisaillam LBHES	900	0.00	8.61	15.51	77.84	101.96
10	Small Hydel (Pochampad -I, Singur , Nizam sagar& Palair HES)	54	0.00	3.41	6.13	8.92	18.46
11	Mini Hydel (Pedda pally HES)	9.16	0.00	0.58	1.04	1.75	3.37
12	Pochampad Stage -II	9	0.00	0.57	1.02	1.92	3.51
13	Priya Dharshini Jurala HES	234	0.00	3.45	6.20	23.85	33.50
14	Lower Jurala HES	240	0.00	2.67	4.81	46.55	54.03
15	Pulichinthala HES	120	0.00	4.11	7.40	22.51	34.03
	Grand Total	6484.26	657.98	164.20	373.89	2526.35	3722.41


 Chief Engineer
 Coal & Commercial
 TSGENCO, V.S., Hyderabad-82

Annexure-A2							
Working Capital(FY2022-23)							
							(Rs in Crs)
Sl.No	Name of the Station	Capacity MW	Cost of Fuel (30 days)	O&M (1Month)	Maintenance Spares	Recievables (2 Months)	Working Capital
1	KTPS Stage-V	500	80.59	19.19	46.07	231.34	377.19
2	KTPS Stage-VI	500	79.72	19.14	45.95	252.65	397.46
3	RTS -B	62.5	10.40	8.61	20.65	42.83	82.49
4	KTPP Stage - I	500	88.18	15.61	37.45	257.33	398.57
5	KTPP Stage- II	600	101.62	17.80	42.71	353.15	515.28
6	KTPS Stage-VII	800	126.58	16.18	38.82	457.61	639.19
7	BTPS	1080	170.89	39.48	94.76	747.85	1052.98
8	Nagarjuna Sagar Complex HES	875.6	0.00	10.75	19.35	59.93	90.03
9	Srisailem LBHES	900	0.00	9.03	16.26	77.44	102.73
10	Small Hydel (Pochampad -I, Singur , Nizam sagar& Palair HES)	54	0.00	3.58	6.44	9.19	19.22
11	Mini Hydel (Pedda pally HES)	9.16	0.00	0.61	1.09	1.79	3.49
12	Pochampad Stage -II	9	0.00	0.60	1.07	1.96	3.63
13	Priya Dharshini Jurala HES	234	0.00	3.62	6.52	23.56	33.71
14	Lower Jurala HES	240	0.00	2.81	5.06	46.08	53.95
15	Pulichinthala HES	120	0.00	4.33	7.80	22.80	34.93
	Grand Total	6484.26	657.98	171.34	390.02	2585.49	3804.83

Annexure-A2							
Working Capital(FY2023-24)							
Sl.No	Name of the Station	Capacity (MW)	Cost of Fuel (30 days)	O&M (1Month)	Maintenance Spares	Receivables (2 Months)	Working Capital (Rs in Crs)
1	KTPS-V	500	80.81	20.06	48.15	216.11	365.13
2	KTPS VI	500	79.93	20.01	48.03	233.89	381.86
3	RTS -B	62.5	10.43	9.02	21.66	43.39	84.50
4	KTPP-I	500	88.43	16.31	39.15	235.12	379.01
5	KTPP-Stage - II	600	101.89	18.62	44.69	352.78	517.99
6	KTPS-VII	800	126.93	16.74	40.19	465.32	649.18
7	BTPS	1080	171.35	40.87	98.08	741.02	1051.33
8	Nagarjuna Complex	875.6	0.00	11.27	20.28	59.84	91.39
9	Srisaillam LBHES	900	0.00	9.47	17.05	77.08	103.61
10	Small Hydel (Pochampad -I, Singur, Nizam sagar& Palair HES)	54	0.00	3.76	6.78	9.47	20.01
11	Mini Hydels(Pedda pally HES)	9.16	0.00	0.64	1.15	1.83	3.62
12	Pochampad Stage -II	9	0.00	0.63	1.13	1.80	3.56
13	Priya dharshini Jurala	234	0.00	3.81	6.86	23.29	33.96
14	Lower Jurala HES	240	0.00	2.95	5.32	45.15	53.42
15	Pulichinthala HES	120	0.00	4.56	8.21	23.09	35.86
	Grand Total	6484.26	659.78	178.74	406.72	2529.19	3774.43


 Chief Engineer
 Coal & Commercial
 TSGENCO, V.S., Hyderabad-62

Annexure - A3

Return on Equity , Interest and Finance Charges on Loan & Int on Working Capital (FY 2019-20)

Rs in Cr

Name of the Station	Gross Fixed Asset (G.F.A.)	30% Equity	70% Loan	Accumulated depreciation	Net Asset	Actual Loan	Notional Loan	Total Loan	Net Equity	Working Capital	Return on Equity (ROE)	Interest & finance charges on Loan	Interest on Working Capital	Int Total	Basic Rate on ROE	MAT Rate	Rate of Pre-tax ROE	Wtavg Int Rate on Loan	Int. Rate on Working Capital
KTPS (O&M)	773.20	231.96	541.24	665.48	107.72	16.46	0.00	16.46	91.26	490.51	17.14	1.76	59.11	78.00	15.50%	17.472%	18.78%	10.68%	12.05%
KTPS Stage-V	2159.05	647.72	1511.34	1674.96	484.09	0.00	0.00	0.00	484.09	369.83	90.92	0.00	44.56	135.48	15.50%	17.472%	18.78%	10.68%	12.05%
KTPS Stage-VI	2530.95	759.28	1771.66	1317.29	1213.66	671.90	0.00	671.90	541.76	389.54	101.75	71.76	46.94	220.45	15.50%	17.472%	18.78%	10.68%	12.05%
RIS-B	127.53	38.26	89.27	54.54	72.99	1.18	33.55	34.73	38.26	77.00	7.19	3.54	9.28	20.01	15.50%	17.472%	18.78%	10.20%	12.05%
KTPP Stage - I	2587.76	776.33	1811.43	1557.43	1030.33	446.05	0.00	446.05	584.28	395.98	109.74	46.57	47.72	204.02	15.50%	17.472%	18.78%	10.44%	12.05%
KTPP Stage- II	3405.83	1021.75	2384.08	506.69	2899.14	2159.41	0.00	2159.41	739.73	488.78	138.93	228.90	58.90	426.73	15.50%	17.472%	18.78%	10.60%	12.05%
KTPS Stage-VII	4605.02	1381.51	3223.51	63.95	4541.07	3969.46	0.00	3969.46	571.61	601.33	110.82	424.34	72.46	607.62	16.00%	17.472%	19.39%	10.69%	12.05%
RTPS	6073.05	1821.92	4251.14	0	6073.05	3975.14	2097.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.50%	17.472%	18.78%	11.72%	12.05%
Nagarjuna Sagar Complex HES	1948.75	584.62	1364.12	815.41	1133.34	392.66	156.06	548.72	584.62	86.70	116.89	58.60	10.45	185.94	16.50%	17.472%	19.99%	10.68%	12.05%
Srisaalam LBHES	3376.06	1012.82	2363.24	1533.47	1842.59	0.00	829.77	829.77	1012.82	100.72	202.49	103.72	12.14	318.35	16.50%	17.472%	19.99%	12.50%	12.05%
SRM HES (Pochampad-I, Singur, Nuzam nagar & Palur HES)	121.02	36.31	84.71	77.90	43.12	7.96	0.00	7.96	35.16	16.99	7.03	1.00	2.05	10.07	16.50%	17.472%	19.99%	12.50%	12.05%
Mini Hydel (Pedda pully HES)	31.35	9.40	21.94	17.32	14.03	0.00	4.62	4.62	9.40	3.15	1.77	0.58	0.38	2.72	15.50%	17.472%	18.78%	12.50%	12.05%
Pochampad Stage-II	29.74	8.92	20.81	8.24	21.50	0.00	12.57	12.57	8.92	3.30	1.78	1.27	0.40	3.45	16.50%	17.472%	19.99%	10.10%	12.05%
Prava Dharshini Jurala HES	691.91	207.57	484.34	203.63	488.28	142.54	138.17	280.71	207.57	33.22	38.99	29.98	4.00	72.97	15.50%	17.472%	18.78%	10.68%	12.05%
Lower Jurala HES	1555.90	466.77	1089.13	213.84	1342.06	1084.44	0.00	1084.44	257.62	53.75	48.38	115.82	6.48	170.68	15.50%	17.472%	18.78%	10.68%	12.05%
Pulichintala HES	445.31	133.59	311.71	31.21	414.09	0.00	280.50	280.50	133.59	32.05	26.71	31.42	3.86	61.99	16.50%	17.472%	19.99%	11.20%	12.05%
Grand Total	30462.41	9138.72	21323.69	8741.36	21721.05	12867.20	3553.16	10347.31	5300.69	3142.84	1020.52	1119.24	378.71	2518.48					

Annexure - A3

Return on Equity , Interest and finance charges on loan & Int on Working Capital (FY2020-21)


Name of the Station	Gross Fixed Asset (G.F.A.)	30% Equity	70% loan	Accumulated depreciation	Net Asset	Actual Loan	Notional Loan	Total Loan	Net Equity	Working Capital	Return on Equity (ROE)	Interest & finance charges on Loan	Interest on Working Capital	Int Total	Base Rate on ROE	MAT Rate	Rate of Pre-tax ROE	Wt avg Int Rate on Loan	Int Rate on Working Capital	Rs in Cr
KTPS Stage-V	2166.83	650.05	1516.78	1761.63	405.20	0.00	0.00	0.00	405.20	370.77	76.10	0.00	44.68	120.78	15.50%	17.472%	18.78%	10.68%	12.05%	
KTPS Stage-VI	2530.95	759.28	1771.66	1450.92	1080.02	460.70	0.00	460.70	619.32	391.60	116.32	49.20	47.19	212.71	15.50%	17.472%	18.78%	10.68%	12.05%	
RTS -B	127.53	38.26	89.27	66.59	60.94	0.00	22.68	22.68	38.26	78.67	7.19	2.31	9.48	18.98	15.50%	17.472%	18.78%	10.20%	12.05%	
KTPP Stage - I	2587.76	776.33	1811.43	1694.06	893.70	289.60	0.00	289.60	604.10	396.43	113.46	30.23	47.77	191.46	15.50%	17.472%	18.78%	10.44%	12.05%	
KTPP Stage- II	3444.78	1033.43	2411.34	686.52	2758.26	2369.75	0.00	2369.75	388.51	484.76	72.97	251.19	58.41	382.58	15.50%	17.472%	18.78%	10.60%	12.05%	
KTPS Stage-VII	4857.19	1457.16	3400.03	307.09	4550.09	4050.10	0.00	4050.10	499.99	604.46	96.94	432.96	72.84	602.73	16.00%	17.472%	19.39%	10.69%	12.05%	
BTPS	6073.05	1821.92	4251.14	0.00	6073.05	5187.62	0.00	5187.62	885.43	912.46	60.84	222.42	40.22	323.48	15.50%	17.472%	18.78%	11.72%	12.05%	
Nagarjuna Sagar Complex HES	1948.75	584.62	1364.12	880.52	1068.23	358.77	124.84	483.61	584.62	87.69	116.89	51.65	10.57	179.10	16.50%	17.472%	19.99%	10.68%	12.05%	
Srisailem LBHES	3376.06	1012.82	2363.24	1593.67	1782.39	0.00	769.57	769.57	1012.82	101.29	202.49	96.20	12.21	310.90	16.50%	17.472%	19.99%	12.50%	12.05%	
Small Hydel (Pochampad -I, Singur , Nizam sagar & Palair HES)	121.02	36.31	84.71	81.00	40.02	0.00	3.71	3.71	36.31	17.71	7.26	0.46	2.13	9.86	16.50%	17.472%	19.99%	12.50%	12.05%	
Mini Hydel (Pedda pally HES)	31.35	9.40	21.94	18.41	12.94	0.00	3.53	3.53	9.40	3.25	1.77	0.44	0.39	2.60	15.50%	17.472%	18.78%	12.50%	12.05%	
Pochampad Stage-II	29.74	8.92	20.81	9.81	19.93	0.00	11.00	11.00	8.92	3.40	1.78	1.11	0.41	3.31	16.50%	17.472%	19.99%	10.10%	12.05%	
Priya Dharshini Jurala HES	691.91	207.57	484.34	240.16	451.75	114.50	129.67	244.17	207.57	33.34	38.99	26.08	4.02	69.08	15.50%	17.472%	18.78%	10.68%	12.05%	
Lower Jurala HES	1560.92	468.28	1092.65	295.99	1264.93	1010.80	0.00	1010.80	254.13	52.94	47.73	107.95	6.38	162.06	15.50%	17.472%	18.78%	10.68%	12.05%	
Pulichinthala HES	452.65	135.79	316.85	54.72	397.92	0.00	262.13	262.13	135.79	32.80	27.15	29.36	3.95	60.46	16.50%	17.472%	19.99%	11.20%	12.05%	
Grand Total	30000.47	9000.14	21000.33	9141.10	20859.37	13841.84	1327.14	15168.98	5690.38	3571.58	987.86	1301.57	360.65	2650.08						



Chief Engineer
Coal & Commercial
TSGENCO, V.S., Hyderabad-82

Annexure -A3																			
Return on Equity , Interest and finance charges on loan & Int on Working Capital (FY2021-22)																			
Rs in Cr																			
Name of the Station	Gross Fixed Asset (G.F.A.)	30% Equity	70% loan	Accumulated depreciation	Net Asset	Actual Loan	Notional Loan	Total Loan	Net Equity	Working Capital	Return on Equity (ROE)	Interest & finance charges on Loan	Interest on Working Capital	Int Total	Base Rate on ROE	MAT Rate	Rate of Pre- tax ROE	Wt avg Int Rate on Loan	Int Rate on Working Capital
KTPS (O&M)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%	0.00%	0.00%
KTPS Stage-V	2246.25	673.87	1572.37	1848.29	397.96	0.00	0.00	0.00	397.96	375.43	74.74	0.00	45.24	119.98	15.50%	17.472%	18.78%	10.68%	12.05%
KTPS Stage-VI	2530.95	759.28	1771.66	1584.56	946.39	253.07	0.00	253.07	693.32	394.49	130.22	27.03	47.54	204.78	15.50%	17.472%	18.78%	10.68%	12.05%
RTS -B	127.53	38.26	89.27	78.64	48.89	0.00	10.63	10.63	38.26	80.54	7.19	1.08	9.70	17.98	15.50%	17.472%	18.78%	10.20%	12.05%
KTPP Stage - I	2587.76	776.33	1811.43	1830.70	757.06	160.90	0.00	160.90	596.16	397.41	111.97	16.80	47.89	176.65	15.50%	17.472%	18.78%	10.44%	12.05%
KTPP Stage- II	3889.22	1166.76	2722.45	868.40	3020.81	2051.73	0.00	2051.73	969.08	507.33	182.01	217.48	61.13	460.62	15.50%	17.472%	18.78%	10.60%	12.05%
KTPS Stage-VII	5520.86	1656.26	3864.60	563.55	4957.30	4483.56	0.00	4483.56	473.74	620.39	91.85	479.29	74.76	645.90	16.00%	17.472%	19.39%	10.69%	12.05%
BTPS	8823.04	2646.91	6176.13	117.31	8705.73	6783.05	0.00	6783.05	1922.68	1009.18	361.11	794.97	121.61	1277.69	15.50%	17.472%	18.78%	11.72%	12.05%
Nagarjuna Sagar Complex HES	1948.75	584.62	1364.12	945.63	1003.12	324.88	93.62	418.50	584.62	88.80	116.89	44.70	10.70	172.28	16.50%	17.472%	19.99%	10.68%	12.05%
Srisailem LBHES	3376.06	1012.82	2363.24	1653.87	1722.19	0.00	709.37	709.37	1012.82	101.96	202.49	88.67	12.29	303.45	16.50%	17.472%	19.99%	12.50%	12.05%
Small Hydel (Pochampad -I, Singur , Nizam sagar & Palair HES)	121.02	36.31	84.71	84.10	36.92	0.00	0.61	0.61	36.31	18.46	7.26	0.08	2.22	9.56	16.50%	17.472%	19.99%	12.50%	12.05%
Mini Hydel (Pedda pally HES)	31.35	9.40	21.94	19.50	11.85	0.00	2.44	2.44	9.40	3.37	1.77	0.31	0.41	2.48	15.50%	17.472%	18.78%	12.50%	12.05%
Pochampad Stage -II	29.74	8.92	20.81	11.38	18.36	0.00	9.43	9.43	8.92	3.51	1.78	0.95	0.42	3.16	16.50%	17.472%	19.99%	10.10%	12.05%
Priya Dharshini Jurala HES	691.91	207.57	484.34	276.70	415.21	86.46	121.18	207.64	207.57	33.50	38.99	22.18	4.04	65.20	15.50%	17.472%	18.78%	10.68%	12.05%
Lower Jurala HES	1611.59	483.48	1128.12	378.41	1233.19	938.23	0.00	938.23	294.96	54.03	55.40	100.20	6.51	162.11	15.50%	17.472%	18.78%	10.68%	12.05%
Pulichinthala HES	472.94	141.88	331.05	78.62	394.31	0.00	252.43	252.43	141.88	34.03	28.37	28.27	4.10	60.74	16.50%	17.472%	19.99%	11.20%	12.05%
Grand Total	34008.95	10202.68	23806.26	10339.65	23669.29	15081.88	1199.72	16281.60	7387.69	3722.41	1412.01	1822.01	448.55	3682.58				0.00	12.05%

Annexure -A3																			
Return on Equity , Interest and finance charges on loan & Int on Working Capital (FY2022-23)																			
Rs in Cr																			
Name of the Station	Gross Fixed Asset (G.F.A.)	30% Equity	70% loan	Accumulated depreciation	Net Asset	Actual Loan	Notional Loan	Total Loan	Net Equity	Working Capital	Return on Equity (ROE)	Interest & finance charges on Loan	Interest on Working Capital	Int Total	Base Rate on ROE	MAT Rate	Rate of Pre-tax ROE	Wt avg Int.Rate on Loan	Int. Rate on Working Capital
KTPS Stage-V	2246.25	673.87	1572.37	1934.96	311.29	0.00	0.00	0.00	311.29	377.19	58.47	0.00	45.45	103.92	15.50%	17.472%	18.78%	10.68%	12.05%
KTPS Stage-VI	2530.95	759.28	1771.66	1718.19	812.76	56.87	0.00	56.87	755.89	397.46	141.97	6.07	47.89	195.93	15.50%	17.472%	18.78%	10.68%	12.05%
RTS -B	127.53	38.26	89.27	90.69	36.84	0.00	0.00	0.00	36.84	82.49	6.92	0.00	9.94	16.86	15.50%	17.472%	18.78%	10.20%	12.05%
KTPP Stage - I	2587.76	776.33	1811.43	1967.33	620.43	32.20	0.00	32.20	588.23	398.57	110.48	3.36	48.03	161.87	15.50%	17.472%	18.78%	10.44%	12.05%
KTPP Stage- II	4023.54	1207.06	2816.48	1073.75	2949.78	1733.71	9.01	1742.72	1207.06	515.28	226.70	184.73	62.09	473.52	15.50%	17.472%	18.78%	10.60%	12.05%
KTPS Stage-VII	5979.50	1793.85	4185.65	855.05	5124.44	4066.32	0.00	4066.32	1058.12	639.19	205.14	434.69	77.02	716.85	16.00%	17.472%	19.30%	10.60%	12.05%
BTPS	9959.43	2987.83	6971.60	583.16	9376.27	6347.55	40.89	6388.44	2987.83	1052.98	561.16	748.72	126.88	1436.77	15.50%	17.472%	18.78%	11.72%	12.05%
Nagarjuna Sagar Complex HES	1948.75	584.62	1364.12	1010.74	938.01	292.67	60.72	353.39	584.62	90.03	116.89	37.74	10.85	165.48	16.50%	17.472%	19.99%	10.68%	12.05%
Srisailem LBHES	3376.06	1012.82	2363.24	1714.07	1661.99	0.00	649.17	649.17	1012.82	102.73	202.49	81.15	12.38	296.02	16.50%	17.472%	19.99%	12.50%	12.05%
Small Hydel Pochampad -I, Singur , Nizam sagar & Palair HES)	121.02	36.31	84.71	87.20	33.82	0.00	0.00	0.00	33.82	19.22	6.76	0.00	2.32	9.08	16.50%	17.472%	19.99%	12.50%	12.05%
Mini Hydel (Pedda pally HES)	31.35	9.40	21.94	20.59	10.76	0.00	1.35	1.35	9.40	3.49	1.77	0.17	0.42	2.36	15.50%	17.472%	18.78%	12.50%	12.05%
Pochampad Stage -II	29.74	8.92	20.81	12.95	16.79	0.00	7.86	7.86	8.92	3.63	1.78	0.79	0.44	3.02	16.50%	17.472%	19.99%	10.10%	12.05%
Priya Dharshini Jurala HES	691.91	207.57	484.34	313.23	378.68	58.42	112.69	171.11	207.57	33.71	38.99	18.27	4.06	61.32	15.50%	17.472%	18.78%	10.68%	12.05%
Lower Jurala HES	1639.74	491.92	1147.82	463.50	1176.24	879.59	0.00	879.59	296.65	53.95	55.72	93.94	6.50	156.16	15.50%	17.472%	18.78%	10.68%	12.05%
Pulichinthala HES	482.21	144.66	337.54	103.59	378.61		233.95	233.95	144.66	34.93	28.92	26.20	4.21	59.33	16.50%	17.472%	19.99%	11.20%	12.05%
Grand Total	35775.72	10732.71	25043.00	11949.01	23826.70	13467.33	1115.64	14582.97	9243.73	3804.83	1764.15	1635.85	458.48	3858.48					


 Chief Engineer
 Coal & Commercial
 TSGENCO, V.S., Hyderabad-82

Annexure - A3


Return on Equity, Interest and finance charges on loan & Int on Working Capital (FY2023-24)

Name of the Station	Gross Fixed Asset (G.F.A.)	30% Equity	70% loan	Accumulated depreciation	Net Asset	Actual Loan	Notional Loan	Total Loan	Net Equity	Working Capital	Return on Equity (ROE)	Interest & finance charges on Loan	Interest on Working Capital	Int Total	Base Rate on ROE	MAT Rate	Rate of Pre-tax ROE	Rs in Cr	
																		Wt avg Int. Rate on Loan	Int. Rate on Working Capital
KTPS Stage-V	2246.25	673.87	1572.37	2021.62	224.62	0.00	0.00	0.00	224.62	365.13	42.19	0.00	44.00	86.19	15.50%	17.472%	18.78%	10.68%	12.05%
KTPS Stage-VI	2530.95	759.28	1771.66	1851.83	679.12	0.00	0.00	0.00	679.12	381.86	127.55	0.00	46.01	173.56	15.50%	17.472%	18.78%	10.68%	12.05%
RTS -B	127.53	38.26	89.27	102.74	24.79	0.00	0.00	0.00	24.79	84.50	4.66	0.00	10.18	14.84	15.50%	17.472%	18.78%	10.20%	12.05%
KTPP Stage - I	2587.76	776.33	1811.43	2103.96	483.79	0.00	0.00	0.00	483.79	379.01	90.86	0.00	45.67	136.53	15.50%	17.472%	18.78%	10.44%	12.05%
KTPP Stage- II	4060.17	1218.05	2842.12	1286.20	2773.98	1415.69	140.24	1555.93	1218.05	517.99	228.77	164.93	62.42	456.11	15.50%	17.472%	18.78%	10.60%	12.05%
KTPS Stage-VII	6211.28	1863.38	4347.89	1170.77	5040.51	3628.22	0.00	3628.22	1412.29	649.18	273.80	387.86	78.23	739.89	16.00%	17.472%	19.39%	10.69%	12.05%
BTPS	9959.43	2987.83	6971.60	1109.02	8850.41	5881.17	0.00	5881.17	2969.24	1051.33	557.67	689.27	126.68	1373.63	15.50%	17.472%	18.78%	11.72%	12.05%
Nagarjuna Sagar Complex HES	1948.75	584.62	1364.12	1075.85	872.90	261.31	26.97	288.28	584.62	91.39	116.89	30.79	11.01	158.69	16.50%	17.472%	19.99%	10.68%	12.05%
Srisaillam LBHES	3376.06	1012.82	2363.24	1774.27	1601.79	0.00	588.97	588.97	1012.82	103.61	202.49	73.62	12.49	288.60	16.50%	17.472%	19.99%	12.50%	12.05%
Small Hydel (Pochampad -I, Singur, Nizam sagar & Palair HES)	121.02	36.31	84.71	90.30	30.72	0.00	0.00	0.00	30.72	20.01	6.14	0.00	2.41	8.55	16.50%	17.472%	19.99%	12.50%	12.05%
Mini Hydel (Pedda pally HES)	31.35	9.40	21.94	21.68	9.67	0.00	0.26	0.26	9.40	3.62	1.77	0.03	0.44	2.24	15.50%	17.472%	18.78%	12.50%	12.05%
Pochampad Stage -II	29.74	8.92	20.81	14.52	15.22		6.29	6.29	8.92	3.56	1.78	0.64	0.43	2.85	16.50%	17.472%	19.99%	10.10%	12.05%
Priya Dharshini Jurala HES	691.91	207.57	484.34	349.76	342.15	30.38	104.19	134.57	207.57	33.96	38.99	14.37	4.09	57.45	15.50%	17.472%	18.78%	10.68%	12.05%
Lower Jurala HES	1657.61	497.28	1160.33	550.08	1107.53	820.95	0.00	820.95	286.58	53.42	53.82	87.68	6.44	147.94	15.50%	17.472%	18.78%	10.68%	12.05%
Pulchinthala HES	491.36	147.41	343.95	129.05	362.30		214.90	214.90	147.41	35.86	29.47	24.07	4.32	57.86	16.50%	17.472%	19.99%	11.20%	12.05%
Grand Total	36071.15	10821.34	25249.80	13651.65	22419.49	12037.72	1081.82	13119.54	9299.95	3774.43	1776.85	1473.25	454.82	3704.92					

Annexure -A4

Depreciation FY2019-24

Sno	Name of the Station							(Rs in Crs)
		FY 2018-2019	FY 2019-20	FY 2020-21	FY 2021-2022	FY 2022-2023	FY 2023-24	FY 2019-24
1	KTPS O&M	64.17	64.18	0.00	0.00	0.00	0.00	64.18
2	KTPS-V	8.81	86.67	86.67	86.67	86.67	0.00	346.66
3	KTPS VI	181.69	133.63	133.63	133.63	133.63	30.43	564.97
4	RTS -B	2.71	12.05	12.05	12.05	12.05	12.05	60.25
5	KTPP-I	182.97	136.63	136.63	136.63	136.63	17.31	563.84
6	KTPP Stage -II	171.01	179.83	181.88	205.35	212.44	214.38	993.88
7	KTPS-VII	63.95	243.14	256.46	291.50	315.72	327.96	1434.78
8	BTPS	0.00		117.31	465.86	525.86	525.86	1634.88
9	Nagarjuna Complex	47.28	65.11	65.11	65.11	65.11	65.11	325.55
10	Srisaillam LBHES	113.91	60.20	60.20	60.20	60.20	60.20	301.00
11	Small Hydrel(Pochampad -I ,Singur, Nizam sagar & Palair HES)	3.91	3.10	3.10	3.10	3.10	3.10	15.50
12	Mini Hydels(Pedda pally HES)	0.89	1.09	1.09	1.09	1.09	1.09	5.45
13	Pochampad Stage -II	1.00	1.57	1.57	1.57	1.57	0.44	6.72
14	Priya dharshini Jurala	22.79	36.53	36.53	36.53	36.53	36.53	182.66
15	Lower Jurala HES	66.95	82.15	82.42	85.09	86.58	87.52	423.76
16	Pulichinthala HES	17.06	23.51	23.90	24.97	25.46	25.94	123.79
	Grand Total	949.10	1129.40	1198.55	1609.36	1702.64	1407.92	7047.87


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Annexure -A5							
O&M charges (FY2019-24)							
S.No	Name of the Station	FY 2019-20	FY 2020-21	FY 2021-2022	FY 2022-2023	FY 2023-24	(Rs in Crs)
							FY 2019-24
1	KTPS O&M	561.03	0.00	0.00	0.00	0.00	561.03
2	KTPS-V	200.81	209.82	220.47	230.33	240.73	1102.16
3	KTPS VI	201.62	210.50	219.87	229.73	240.13	1101.85
4	RTS -B	89.70	93.99	98.50	103.26	108.28	493.72
5	KTPP-I	164.28	171.54	179.20	187.26	195.76	898.05
6	KTPP Stage -II	182.23	190.76	203.30	213.57	223.47	1013.32
7	KTPS-VII	175.01	181.15	187.58	194.11	200.93	938.78
8	BTPS		161.77	457.62	473.82	490.41	1583.61
9	Nagarjuna Complex	112.14	117.47	123.08	128.99	135.22	616.91
10	Srisailem LBHES	94.06	98.59	103.37	108.40	113.70	518.12
11	Small Hydel(Pochampad -I ,Singur, Nizam sagar & Palair HES)	36.99	38.88	40.87	42.96	45.17	204.87
12	Mini Hydels (Pedda pally HES)	6.27	6.59	6.93	7.29	7.66	34.75
13	Pochampad Stage -II	6.17	6.48	6.81	7.16	7.53	34.15
14	Priya dharshini Jurala	37.42	39.34	41.36	43.49	45.74	207.35
15	Lower Jurala HES(New Station)	29.03	30.49	32.08	33.73	35.45	160.77
16	Pulichinthala HES(New Station)	44.50	46.86	49.37	51.98	54.74	247.45
	Total	1941.25	1604.23	1970.40	2056.10	2144.91	9716.88
i	Leave enchashment to pensioners	5.78	14.38	19.38	15.07	20.11	74.72
ii	Medical allowance to pensioners	5.58	5.91	6.27	6.64	7.04	31.44
iii	Licence & regulatory fee		1.50			1.50	3.00
iv	Water Charges	27.54	46.67	51.73	62.05	68.32	256.31
	Grand Total	1980.15	1672.68	2047.78	2139.86	2241.88	10082.35

* Working sheets for O&M expenses for existing stations were finished at Annexure A5 - (i to iii) & (I-III)

Annexure A-6							
Fixed charges (FY2019-20)							
(Rs in Crs)							
S.No	Name of the Station	Return on Equity	Interest & Finance charges on Loan	Interest on Working Capital	Depreciation	O&M Expenses	Fixed charges
1	KTPS O&M	17.14	1.76	59.11	64.18	561.03	703.22
2	KTPS-V	90.92	0.00	44.56	86.67	200.81	422.96
3	KTPS VI	101.75	71.76	46.94	133.63	201.62	555.70
4	RTS -B	7.19	3.54	9.28	12.05	89.70	121.75
5	KTPP-I	109.74	46.57	47.72	136.63	164.28	504.93
6	KTPP Stage -II	138.93	228.90	58.90	179.83	182.23	788.79
7	KTPS-VII	110.82	424.34	72.46	243.14	175.01	1025.77
8	BTPS	0.00	0.00	0.00	0.00	0.00	0.00
9	Nagarjuna Complex	116.89	58.60	10.45	65.11	112.14	363.19
10	Srisailem LBHES	202.49	103.72	12.14	60.20	94.06	472.61
11	Mini Hydel (Pochampad -I ,Singur , Nizam sagar& Palair HES)	7.03	1.00	2.05	3.10	36.99	50.16
12	Mini Hydel (Pedda pally HES)	1.77	0.58	0.38	1.09	6.27	10.09
13	Pochampad Stage -II	1.78	1.27	0.40	1.57	6.17	11.19
14	Priya dharshini Jurala	38.99	29.98	4.00	36.53	37.42	146.92
15	Lower Jurala HES	48.38	115.82	6.48	82.15	29.03	281.86
16	Pulichinthala HES	26.71	31.42	3.86	23.51	44.50	130.00
	Sub total	1020.52	1119.24	378.71	1129.40	1941.25	5589.13
	Additional interest on pension bonds (Over and above schedule)						1080.07
	Grand Total						6669.20

Annexure A-6							
Fixed charges (FY2020-21)							
(Rs in Crs)							
S.No	Station	Return on Equity	Interest & Finance charges on Loan	Interest on Working Capital	Depreciation	O&M Expenses	Fixed charges
1	KTPS-V	76.10	0.00	44.68	86.67	209.82	417.27
2	KTPS VI	116.32	49.20	47.19	133.63	210.50	556.85
3	RTS -B	7.19	2.31	9.48	12.05	93.99	125.01
4	KTPP-I	113.46	30.23	47.77	136.63	171.54	499.64
5	KTPP Stage -II	72.97	251.19	58.41	181.88	190.76	755.22
6	KTPS-VII	96.94	432.96	72.84	256.46	181.15	1040.34
7	BTPS	60.84	222.42	40.22	117.31	161.77	602.56
8	Nagarjuna Complex	116.89	51.65	10.57	65.11	117.47	361.68
9	Srisailem LBHES	202.49	96.20	12.21	60.20	98.59	469.69
10	Small Hydel(Pochampad -I ,Singur , Nizam sagar& Palair HES)	7.26	0.46	2.13	3.10	38.88	51.83
11	Mini Hydel (Peddapally HES)	1.77	0.44	0.39	1.09	6.59	10.28
12	Pochampad Stage -II	1.78	1.11	0.41	1.57	6.48	11.36
13	Priyadarshini Jurala	38.99	26.08	4.02	36.53	39.34	144.95
14	Lower Jurala HES	47.73	107.95	6.38	82.42	30.49	274.97
15	Pulichinthala HES	27.15	29.36	3.95	23.90	46.86	131.22
	Sub total	987.86	1301.57	360.65	1198.55	1604.23	5452.86
	Additional Interest on pension bonds (Over and above schedule)						1175.11
	Grand Total						6627.97

Annexure A-6							
Fixed charges (FY2021-22)							
(Rs in Crs)							
S.No	Station	Return on Equity	Interest & Finance charges on Loan	Interest on Working Capital	Depreciation	O&M Expenses	Fixed charges
1	KTPS O&M	0.00	0.00	0.00	0.00	0.00	0.00
1	KTPS-V	74.74	0.00	45.24	86.67	220.47	427.11
2	KTPS VI	130.22	27.03	47.54	133.63	219.87	558.28
3	RTS -B	7.19	1.08	9.70	12.05	98.50	128.53
4	KTPP-I	111.97	16.80	47.89	136.63	179.20	492.48
5	KTPP Stage -II	182.01	217.48	61.13	205.35	203.30	869.27
6	KTPS-VII	91.85	479.29	74.76	291.50	187.58	1124.98
7	BTPS	361.11	794.97	121.61	465.86	457.62	2201.16
8	Nagarjuna Complex	116.89	44.70	10.70	65.11	123.08	360.47
9	Srisaïlam LBHES	202.49	88.67	12.29	60.20	103.37	467.02
10	Mini Hydel Pochampad -I (Singur , Nizam sagar& Palair HES)	7.26	0.08	2.22	3.10	40.87	53.53
11	Mini Hydel (Pedda pally HES)	1.77	0.31	0.41	1.09	6.93	10.50
12	Pochampad Stage -II	1.78	0.95	0.42	1.57	6.81	11.54
13	Priya dharshini Jurala	38.99	22.18	4.04	36.53	41.36	143.09
14	Lower Jurala HES	55.40	100.20	6.51	85.09	32.08	279.28
15	Pulichinthala HES	28.37	28.27	4.10	24.97	49.37	135.08
	Sub total	1412.01	1822.01	448.55	1609.36	1970.40	7262.33
	Additional Interest on pension bonds (Over and above schedule)						1281.34
	Grand Total						8543.67

Annexure A-6							
Fixed charges (FY2022-23)							
(Rs in Crs)							
S.No	Station	Return on Equity	Interest & Finance charges on Loan	Interest on Working Capital	Depreciation	O&M Expenses	Fixed charges
1	KTPS-V	58.47	0.00	45.45	86.67	230.33	420.91
2	KTPS VI	141.97	6.07	47.89	133.63	229.73	559.30
3	RTS -B	6.92	0.00	9.94	12.05	103.26	132.17
4	KTPP-I	110.48	3.36	48.03	136.63	187.26	485.76
5	KTPP Stage -II	226.70	184.73	62.09	212.44	213.57	899.54
6	KTPS-VII	205.14	434.69	77.02	315.72	194.11	1226.68
7	BTPS	561.16	748.72	126.88	525.86	473.82	2436.44
8	Nagarjuna Complex	116.89	37.74	10.85	65.11	128.99	359.58
9	Srisaïlam LBHES	202.49	81.15	12.38	60.20	108.40	464.62
10	Small Hydel(Pochampad -I ,Singur , Nizam sagar& Palair HES)	6.76	0.00	2.32	3.10	42.96	55.14
11	Mini Hydel (Pedda pally HES)	1.77	0.17	0.42	1.09	7.29	10.73
12	Pochampad Stage -II	1.78	0.79	0.44	1.57	7.16	11.75
13	Priya dharshini Jurala	38.99	18.27	4.06	36.53	43.49	141.35
14	Lower Jurala HES	55.72	93.94	6.50	86.58	33.73	276.46
15	Pulichinthala HES	28.92	26.20	4.21	25.46	51.98	136.78
	Sub total	1764.15	1635.85	458.48	1702.64	2056.10	7617.22
	Additional Interest on pension bonds (Over and above schedule)						1394.83
	Grand Total						9012.05

Annexure A-6

Fixed charges (FY2023-24)

(Rs in Crs)

S.No	Station	Return on Equity	Interest & Finance charges on Loan	Interest on Working Capital	Depreciation	O&M Expenses	Fixed charges
1	KTPS-V	42.19	0.00	44.00	0.00	240.73	326.91
2	KTPS VI	127.55	0.00	46.01	30.43	240.13	444.12
3	RTS -B	4.66	0.00	10.18	12.05	108.28	135.16
4	KTPP-I	90.86	0.00	45.67	17.31	195.76	349.61
5	KTPP Stage -II	228.77	164.93	62.42	214.38	223.47	893.96
6	KTPS-VII	273.80	387.86	78.23	327.96	200.93	1268.77
7	BTPS	557.67	689.27	126.68	525.86	490.41	2389.89
8	Nagarjuna Complex	116.89	30.79	11.01	65.11	135.22	359.02
9	Srisailam LBHES	202.49	73.62	12.49	60.20	113.70	462.50
10	Small Hydel (Pochampad -I , Singur , Nizam sagar & Palair HES)	6.14	0.00	2.41	3.10	45.17	56.83
11	Mini Hydel (Pochampad -II HES)	1.77	0.03	0.44	1.09	7.66	10.99
12	Pochampad Stage -II	1.78	0.64	0.43	0.44	7.53	10.82
13	Priyadharshini Jurala	38.99	14.37	4.09	36.53	45.74	139.72
14	Lower Jurala HES	53.82	87.68	6.44	87.52	35.45	270.91
15	Pulichinthala HES	29.47	24.07	4.32	25.94	54.74	138.55
	Sub total	1776.85	1473.25	454.82	1407.92	2144.91	7257.75
	Additional Interest on pension bonds (Over and above schedule)						1517.03
	Grand Total						8774.78


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ANNEXURE -A6

Year wise Fixed charges (FY 2019-24)								(Rs in Crs)
S.No	Name of the Station	Capacity MW	2019-20	2020-21	2021-22	2022-23	2023-24	2019-24
1	KTPS O&M*	420	703.22	0.00	0.00	0.00	0.00	703.22
2	KTPS-V	500	422.96	417.27	427.11	420.91	326.91	2015.17
3	KTPS VI	500	555.70	556.85	558.28	559.30	444.12	2674.25
4	RTS -B	62.5	121.75	125.01	128.53	132.17	135.16	642.63
5	KTPP-I	500	504.93	499.64	492.48	485.76	349.61	2332.43
6	KTPP Stage -II	600	788.79	755.22	869.27	899.54	893.96	4206.77
7	KTPS-VII	800	1025.77	1040.34	1124.98	1226.68	1268.77	5686.55
8	BTPS	1080	0.00	602.56	2201.16	2436.44	2389.89	7630.06
9	Nagarjuna Complex (Main & Left Canal)	875.6	363.19	361.68	360.47	359.58	359.02	1803.94
10	Srisaifam LBHES	900	472.61	469.69	467.02	464.62	462.50	2336.44
11	Small Hydels(Pochampad -I ,Singur, Nizam sagar & Palair HES)	54	50.16	51.83	53.53	55.14	56.83	267.49
12	Mini Hydels(Pedda pally HES)	9.16	10.09	10.28	10.50	10.73	10.99	52.59
13	Pochampad Stage -II	9	11.19	11.36	11.54	11.75	10.82	56.65
14	Priya dharshini Jurala	234	146.92	144.95	143.09	141.35	139.72	716.03
15	Lower Jurala HES	240	281.86	274.97	279.28	276.46	270.91	1383.48
16	Pulichinthala HES	120	130.00	131.22	135.08	136.78	138.55	671.62
	Total	6904.26	5589.13	5452.86	7262.33	7617.22	7257.75	33179.29
i	Additional Interest on pension bonds (Over and above schedule)		1080.07	1175.11	1281.34	1394.83	1517.03	6448.38
ii	Leave enchashment to pensioners		5.78	14.38	19.38	15.07	20.11	74.72
iii	Medical allowance to pensioners		5.58	5.91	6.27	6.64	7.04	31.44
iv	Licence & regulatory fee			1.51			1.51	3.02
v	Water Charges		27.54	46.67	49.47	52.43	55.58	231.69
vi	Medical & other welfare expenses		21.46	22.75	24.11	25.56	27.09	120.97
vii	IT (SAP /FLM) Initiatives		0.70	5.50	15.00	4.00	2.00	27.20
	Grand Total	6904.26	6730.26	6724.69	8657.90	9115.75	8888.11	40116.71


*KTPS O&M units were phased out on 31.03.2020

Annexure A-6

Fixed charges (FY2019-24)

(Rs in Crs)

S.No	Station	Return on Equity	Interest & Finance charges on Loan	Interest on Working Capital	Depreciation	O&M Expenses	Fixed charges
1	KTPS O&M	17.14	1.76	59.11	64.18	561.03	703.22
2	KTPS-V	342.42	0.00	223.93	346.66	1102.16	2015.17
3	KTPS VI	617.80	154.06	235.57	564.97	1101.85	2674.25
4	RTS -B	33.13	6.94	48.59	60.25	493.72	642.63
5	KTPP-I	536.50	96.96	237.07	563.84	898.05	2332.43
6	KTPP Stage -II	849.38	1047.23	302.95	993.88	1013.32	4206.77
7	KTPS-VII	778.55	2159.13	375.30	1434.78	938.78	5686.55
8	BTPS	1540.77	2455.39	415.40	1634.88	1583.61	7630.06
9	Nagarjuna Complex	584.43	223.48	53.57	325.55	616.91	1803.94
10	Srisailem LBHES	1012.47	443.36	61.49	301.00	518.12	2336.44
11	Sman Hyder (Pochampad -I , Singur , Nizam sagar & Palair HES)	34.45	1.54	11.13	15.50	204.87	267.49
12	Mini Hyder (Pochampad HES)	8.83	1.53	2.03	5.45	34.75	52.59
13	Pochampad Stage -II	8.92	4.76	2.10	6.72	34.15	56.65
14	Priyadarshini Jurala	194.93	110.88	20.21	182.66	207.35	716.03
15	Lower Jurala HES	261.05	505.59	32.31	423.76	160.77	1383.48
16	Pulichinthala HES	140.62	139.32	20.45	123.79	247.45	671.62
	Sub total	6961.39	7351.93	2101.21	7047.87	9716.88	33179.29
i	Additional interest on pension bonds (Over and above schedule)						6448.38
ii	Leave encashment to pensioners						74.72
iii	Medical allowance to pensioners						31.44
iv	Licence & regulatory fee						3.02
v	Water Charges						231.69
vi	Medical & other welfare expenses						120.97
vii	IT Initiatives						27.20
	Grand Total						40116.71



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Annexure-IV								
Spares(FY2019-24)								
	Name of the Station	Installed Capacity (MW)	FY 2019-20	FY 2020-21	FY 2021-2022	FY 2022-2023	FY 2023-24	(Rs in Crs) FY 2019-24
1	KTPS O&M	420	112.21	0.00	0.00	0.00	0.00	112.21
2	KTPS-V	500	40.16	41.96	44.09	46.07	48.15	220.43
3	KTPS VI	500	40.32	42.10	43.97	45.95	48.03	220.37
4	RTS -B	62.5	17.94	18.80	19.70	20.65	21.66	98.74
5	KTPP-I	500	32.86	34.31	35.84	37.45	39.15	179.61
6	KTPP Stage -II	600	36.45	38.15	40.66	42.71	44.69	202.66
7	KTPS-VII	800.00	6.56	36.23	37.52	38.82	40.19	159.32
8	BTPS	1080.00	0.00	32.35	91.52	94.76	98.08	316.72
9	Nagarjuna Complex	875.6	16.82	17.62	18.46	19.35	20.28	92.54
10	Srisaïlam LBHES	900	14.11	14.79	15.51	16.26	17.05	77.72
11	Small Hydels(Pochapad -I ,Singur, Nizam sagar & Palair HES)	54	5.55	5.83	6.13	6.44	6.78	30.73
12	Mini Hydels(Pedda pally HES)	9.16	0.94	0.99	1.04	1.09	1.15	5.21
13	Pochampad Stage -II	9	0.92	0.97	1.02	1.07	1.13	5.12
14	Priya dharshini Jurala	234	5.61	5.90	6.20	6.52	6.86	31.10
15	Lower Jurala HES	240	4.35	4.57	4.81	5.06	5.32	24.12
16	Pulichinthala HES	120	6.67	7.03	7.40	7.80	8.21	37.12
	Grand Total	6904.26	341.48	301.61	373.89	390.02	406.72	1813.72

Annexure-B1


Proposed weighted average Interest rates on Loan

SI No	Name of the Station	2019-24
1	KTPS O&M	10.68%
2	KTPS-V	10.68%
3	KTPS VI	10.68%
4	RTS -B	10.20%
5	KTPP-I	10.44%
6	KTPP Stage -II	10.60%
7	KTPS Stage VII	10.69%
8	BTPS	11.72%
9	Nagarjuna Complex	10.68%
10	Srisailem LBHES	12.50%
11	Small Hydel(Pochampad -I ,Singur , Nizam sagar& Palair HES)	12.50%
12	Mini Hydel(Pedda pally HES)	12.50%
13	Pochampad Stage -II	10.10%
14	Priyadharshini Jurala	10.68%
15	Lower Jurala HES	10.68%
16	Pulichinthala HES	11.20%
	Working capital	12.05%


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Annexure B2							
Water charges (FY2019-24)							
							(Rs in Crs)
S.No	Name of the Station	FY 2019-20	FY 2020-21	FY 2021-2022	FY 2022-2023	FY 2023-24	FY 2019-24
1	KTPS O&M	0.80	0.00	0.00	0.00	0.00	0.80
2	KTPS-V	1.43	1.34	1.42	1.50	1.59	7.28
3	KTPS VI	1.43	1.34	1.42	1.50	1.59	7.28
4	RTS -B	0.18	0.31	0.33	0.35	0.37	1.53
5	KTPP-I	1.43	1.75	1.86	1.97	2.09	9.10
6	KTPP Stage -II	1.72	2.10	2.23	2.36	2.51	10.92
7	KTPS-VII	0.40	2.14	2.27	2.40	2.55	9.76
8	BTPS	0.00	2.89	3.06	3.25	3.44	12.64
9	Nagarjuna Complex	6.02	10.60	11.24	11.91	12.62	52.39
10	Srisailem LBHES	7.19	9.54	10.11	10.72	11.36	48.93
11	Small Hydel(Pochapad -I ,Singur, Nizam sagar & Palair HES)	1.16	1.09	1.15	1.22	1.30	5.92
12	Mini Hydels (Pedda pally HES)	0.00	0.00	0.00	0.00	0.00	
13	Pochampad Stage -II	0.00	0.00	0.00	0.00	0.00	
14	Priya dharshini Jurala	5.49	10.20	10.81	11.46	12.15	50.11
15	Lower Jurala HES(New Station)	0	0.00	0.00	0.00	0.00	
16	Pulichinthala HES(New Station)	0.28	3.37	3.57	3.79	4.01	15.03
	Grand Total	27.54	46.67	49.47	52.43	55.58	231.69
		27.54	46.67	49.47	52.43	55.58	231.69

Annexure B3							
Medical & other welfare (FY2019-24)							
S.No	Name of the Station	FY 2019-20	FY 2020-21	FY 2021-2022	FY 2022-2023	FY 2023-24	(Rs in Crs)
							FY 2019-24
1	KTPS O&M	3.88	4.11	4.36	4.62	4.90	21.87
2	KTPS-V	1.83	1.94	2.06	2.18	2.31	10.33
3	KTPS VI	1.83	1.94	2.06	2.18	2.31	10.33
4	RTS -B	1.39	1.47	1.56	1.65	1.75	7.82
5	KTPP-I	1.54	1.63	1.73	1.83	1.94	8.66
6	KTPP Stage -II	1.84	1.95	2.07	2.20	2.33	10.39
7	KTPS-VII	0.07	0.07	0.08	0.08	0.09	0.39
8	BTPS						
9	Nagarjuna Complex	3.64	3.86	4.09	4.34	4.60	20.52
10	Srisailem LBHES	2.46	2.60	2.76	2.92	3.10	13.84
11	Small Hydel(Pochapad -I ,Singur, Nizam sagar & Palair HES)	0.42	0.45	0.48	0.51	0.54	2.39
12	Mini Hydels (Pedda pally HES)	0.07	0.08	0.08	0.09	0.09	0.41
13	Pochampad Stage -II	0.07	0.07	0.08	0.08	0.09	0.40
14	Priya dharshini Jurala	1.04	1.10	1.17	1.24	1.32	5.87
15	Lower Jurala HES(New Station)	1.04	1.10	1.17	1.24	1.32	5.87
16	Pulichinthala HES(New Station)	0.33	0.35	0.37	0.40	0.42	1.87
	Grand Total	21.46	22.75	24.11	25.56	27.09	120.97


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**Annexure A5
O&M (FY2019-24)**

(Rs in Crs)

S.No	Name of the Station	EMP 2019-24	R&M 2019-24	A&G 2019-24	Total O&M
	Thermal Stations	1	2	3	(1+2+3)*99%
1	KTPS O&M	504.76	43.26	18.68	561.03
2	KTPS-V	867.62	180.19	65.48	1,102.16
3	KTPS VI	867.62	179.88	65.48	1,101.85
4	RTS -B	417.05	48.36	33.30	493.72
5	KTPP-I	735.87	148.34	23.85	898.98
6	KTPP-II	828.97	167.68	26.91	1,013.32
	Sub Total	4,221.88	767.72	233.70	5,223.29
	Hydel Stations	-	-	-	760.04
7	Nagarjuna Complex	517.29	63.58	42.27	616.91
8	Srisailem LBHES	436.32	46.76	40.27	518.12
9	Small Hydel(Pochapad -I ,Singur, Nizam sagar & Palair HES)	192.43	9.55	4.97	204.87
10	Mini Hydels(Pedda pally HES)	32.64	1.62	0.84	34.75
11	Pochampad Stage -II	32.07	1.59	0.83	34.15
12	Priya dharshini Jurala	193.36	8.45	7.63	207.35
13	Lower Jurala HES	142.47	10.15	9.77	160.77
14	Pulchinthala HES	237.16	5.27	7.51	247.45
	Sub total	1783.74	146.98	114.09	2,024.36
	Total (Thermal & Hydel Stations)	6,005.62	914.69	347.79	7,195.42
i	Leave enchashment to pensioners				74.72
ii	Medical allowance to pensioners				31.44
iii	Licence & regulatory fee				3.00
iv	Water Charges				256.31
	Total (existingStations)				7560.89
	KTPS VII				938.78
	BTPS				1613.55
	GRAND TOTAL				10,113.22


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Annexure A5
O&M (FY2019-24)

(Rs in Crs)

S.No	Name of the Station	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2019-24
	Thermal Stations	1	2	3	4	5	6
1	KTPS O&M	561.03	-	-	-	-	561.03
2	KTPS-V	200.81	209.82	220.47	230.33	240.73	1,102.16
3	KTPS VI	201.62	210.50	219.87	229.73	240.13	1,101.85
4	RTS -B	89.70	93.99	98.50	103.26	108.28	493.72
5	KTPP-I	164.21	171.79	179.45	187.51	196.01	898.98
6	KTPP-II	182.23	190.76	203.30	213.57	223.47	1,013.32
	Sub Total	1,399.60	876.86	921.58	964.41	1,008.61	5,171.06
	Hydel Stations						
7	Nagarjuna Complex	112.14	117.47	123.08	128.99	135.22	616.91
8	Srsailam LBHES	94.06	98.59	103.37	108.40	113.70	518.12
9	Small Hydel(Pochapad -I, Singur, Nizam sagar & Palaur HES)	36.99	38.88	40.87	42.96	45.17	204.87
10	Mini Hydels(Pedda pally HES)	6.27	6.59	6.93	7.29	7.66	34.75
11	Pochampad Stage -II	6.17	6.48	6.81	7.16	7.53	34.15
12	Priya dharshini Jurala	37.42	39.34	41.36	43.49	45.74	207.35
13	Lower Jurala HES	29.03	30.49	32.08	33.73	35.45	160.77
14	Pulichinthala HES	44.50	46.86	49.37	51.98	54.74	247.45
	Sub total	366.58	384.69	403.87	424.01	445.21	2024.36
	Total (Thermal & Hydel Stations)	1,766.18	1,261.55	1,325.45	1,388.42	1,453.82	7,195.42
i	Leave enchashment to pensioners	5.78	14.38	19.38	15.07	20.11	74.72
ii	Medical allowance to pensioners	5.58	5.91	6.27	6.64	7.04	31.44
iii	Licence & regulatory fee		1.50			1.50	3.00
iv	Water Charges	27.54	46.67	51.73	62.05	68.32	256.31
	Total (Existing station)	1,805.08	1,330.01	1,402.83	1,472.18	1,550.79	7,560.89
	KTPS VII	175.01	181.15	187.58	194.11	200.93	938.78
	BTPS		191.71	457.6176	473.8176	490.4064	1613.55
	Grand Total	1980.09	1,702.87	2,048.03	2,140.11	2,242.13	10,113.22


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Annexure A5-i
EMP (FY2019-24) including provisions

CPI Inflation		5.40%						Provisions			
S.No	Name of the Station	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2019-24	(Rs in Crs) Avg of 2014-19	Provisions towards Salaries	Provisions towards PRC	Total
	Thermal Stations	1	2	3	4	5		6	1	2	3
1	KTPS O&M	504.76	0.00	0.00	0.00	0.00	504.76	372.19	20.23	92.26	112.49
2	KTPS-V	155.78	164.19	173.05	182.38	192.22	867.62	108.00	16.34	25.62	41.96
3	KTPS VI	155.78	164.19	173.05	182.38	192.22	867.62	108.00	16.34	25.62	41.96
4	RTS -B	74.88	78.92	83.18	87.67	92.40	417.05	56.14	1.41	14.30	15.71
5	KTPP-I	132.13	139.26	146.77	154.69	163.03	735.87	98.45	10.75	17.61	28.37
6	KTPP-II	148.84	156.87	165.34	174.26	183.66	828.97	108.93	12.90	21.14	34.04
	Sub Total	1172.17	703.42	741.37	781.37	823.53	4221.88	808.13	77.98	196.54	274.52
	Hydel Stations										
7	Nagarjuna Complex	92.88	97.89	103.17	108.74	114.61	517.29	72.62	3.47	12.87	16.34
8	Srisailem LBHES	78.34	82.57	87.02	91.72	96.67	436.32	61.56	3.84	9.62	13.46
9	Small Hydel(Pochapad -I, Singur, Nizam sagar & Dalair HES)	34.55	36.41	38.38	40.45	42.63	192.43	26.30	0.35	6.47	6.83
10	Mini Hydels(Peddapally HES)	5.86	6.18	6.51	6.86	7.23	32.64	4.46	0.06	1.10	1.16
11	Pochampad Stage -II	5.76	6.07	6.40	6.74	7.11	32.07	4.38	0.06	1.08	1.14
12	Priya dharshini Jurala	34.72	36.59	38.57	40.65	42.84	193.36	27.29	1.15	4.80	5.96
13	Lower Jurala HES	25.58	26.96	28.41	29.95	31.56	142.47	20.27	1.54	2.68	4.22
14	Pulichinthala HES	42.58	44.88	47.30	49.85	52.54	237.16	35.06	0.00	5.63	5.63
	Sub total	320.27	337.55	355.76	374.96	395.19	1783.74	251.95	10.48	44.26	54.73
	Total (Thermal & Hydel Stations)	1492.45	1040.98	1097.14	1156.33	1218.72	6005.62	1060.08	88.46	240.80	329.26


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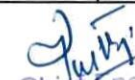
Annexure A5-ii
R&M (FY2019-24)

WPI	4.26%							(Rs in Crs)
S.No	Name of the Station	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2019-24	Kn
	Thermal Stations	1	2	3	4	5		
1	KTPS O&M	43.26	0.00	0.00	0.00	0.00	43.26	5.37%
2	KTPS-V	35.16	35.29	36.58	36.58	36.58	180.19	1.56%
3	KTPS VI	35.98	35.98	35.98	35.98	35.98	179.88	1.36%
4	RTS -B	9.67	9.67	9.67	9.67	9.67	48.36	7.27%
5	KTPP-I	29.41	29.73	29.73	29.73	29.73	148.34	1.10%
6	KTPP-II	30.34	30.69	34.65	35.84	36.17	167.68	0.85%
	Sub Total	183.82	141.35	146.61	147.80	148.13	767.72	1.67%
	Hydel Stations							
8	Nagarjuna Complex	12.72	12.72	12.72	12.72	12.72	63.58	0.63%
9	Srisailem LBHES	9.35	9.35	9.35	9.35	9.35	46.76	0.27%
10	Mini Hydel(Pochampad-I ,Singur, Nizam sagar & Peddapally HES)	1.91	1.91	1.91	1.91	1.91	9.55	1.51%
11	Mini Hydels(Peddapally HES)	0.32	0.32	0.32	0.32	0.32	1.62	0.99%
12	Pochampad Stage -II	0.32	0.32	0.32	0.32	0.32	1.59	1.03%
13	Priya dharshini Jurala	1.69	1.69	1.69	1.69	1.69	8.45	0.23%
14	Lower Jurala HES	1.97	1.97	2.04	2.07	2.10	10.15	0.12%
15	Pulichinthala HES	1.00	1.02	1.06	1.08	1.10	5.27	0.22%
	Sub total	29.28	29.30	29.41	29.47	29.51	146.98	
	Total (Thermal & Hydel Stations)	213.10	170.66	176.02	177.27	177.64	914.69	



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Annexure A5 iii								
A&G (FY2019-24)								
Inflation	4.81%							(Rs in Crs)
S.No	Name of the Station	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2019-24	Avg of 2016-19
	Thermal Stations	1	2	3	4	5		6
1	KTPS O&M	18.68	0.00	0.00	0.00	0.00	18.68	17.82
2	KTPS-V	11.90	12.47	13.07	13.70	14.35	65.48	11.35
3	KTPS VI	11.90	12.47	13.07	13.70	14.35	65.48	11.35
4	RTS -B	6.05	6.34	6.64	6.96	7.30	33.30	5.77
5	KTPP-I	4.33	4.54	4.76	4.99	5.23	23.85	4.13
6	KTPP-II	4.89	5.12	5.37	5.63	5.90	26.91	4.66
	Sub Total	57.74	40.94	42.91	44.97	47.13	233.70	21.98
	Hydel Stations							
7	Nagarjuna Complex	7.68	8.05	8.44	8.84	9.27	42.27	7.33
8	Srisailem LBHES	7.32	7.67	8.04	8.42	8.83	40.27	6.98
9	Smam Hydel (Pochampadu-I, Singur, Nizam sagar & Debari HES)	0.90	0.95	0.99	1.04	1.09	4.97	0.86
10	Mini Hydels(Peddapally HES)	0.15	0.16	0.17	0.18	0.18	0.84	0.15
11	Pochampadu Stage -II	0.15	0.16	0.17	0.17	0.18	0.83	0.14
12	Priya dharshini Jurala	1.39	1.45	1.52	1.60	1.67	7.63	1.32
13	Lower Jurala HES	1.78	1.86	1.95	2.04	2.14	9.77	1.69
14	Pulichinthala HES	1.37	1.43	1.50	1.57	1.65	7.51	1.30
	Sub total	20.73	21.72	22.77	23.86	25.01	114.09	19.78
	IT Initiatives (Provisions)	0.70	5.50	15.00	4.00	2.00	27.20	
	Total (Thermal & Hydel Stations)	79.17	68.16	80.68	72.84	74.15	374.99	


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Annexure A5-I							
E&M (FY2014-19) (excluding medical & other welfare expenses)							
CPI Inflation	5.45%						(Rs in Crs)
S.No	Name of the Station	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	Avg of 2014-19
	Thermal Stations	1	2	3	4	5	6
1	KTPS O&M	181.75	515.87	263.93	326.70	572.71	372.19
2	KTPS-V	55.03	154.59	80.77	99.77	149.82	108.00
3	KTPS VI	55.03	154.59	80.77	99.77	149.82	108.00
4	RTS -B	26.36	74.90	38.13	47.17	94.16	56.14
5	KTPP-I	57.77	161.96	58.42	75.07	139.01	98.45
6	KTPP-II	-	0.02	70.10	89.84	166.82	108.93
	Sub Total	375.93	1,061.94	592.13	738.30	1,272.34	808.13
	Hydel Stations	-	-	-	-	-	
7	Nagarjuna Complex	35.98	98.15	48.45	59.52	120.98	72.62
8	Srisailam LBHES	29.92	80.81	42.48	54.29	100.30	61.56
9	Small Hydel(Pochapad -I ,Singur, Nizam sagar & Palair HES)	13.23	37.28	18.01	20.99	42.01	26.30
10	Mini Hydels(Pedda pally HES)	2.24	6.32	3.05	3.56	7.13	4.46
11	Pochampad Stage -II	2.21	6.21	3.00	3.50	7.00	4.38
12	Priya dharshini Jurala	12.54	34.87	21.09	25.83	42.11	27.29
13	Lower Jurala HES	-	5.89	10.34	15.87	24.67	20.27
14	Pulichinthala HES	(0.00)	-	0.77	8.05	35.06	35.06
	Sub total	96.12	269.54	147.19	191.61	379.27	251.95
	Total (Thermal & Hydel Stations)	472.06	1331.47	739.31	929.92	1651.61	1060.08

* The average of three years employee cost is considered in respect of KTPP-II
 The average of two years employee cost is considered in respect of LJHES
 The one year (FY2018-19) employee cost in respect of PCHES

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Annexure A5-I						
Medical and other welfare expenditure						
S.No	Name of the Station	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
	Thermal Stations	1	2	3	4	5
1	KTPS O&M	1.60	2.30	3.15	3.50	3.30
2	KTPS-V	1.17	1.12	1.30	1.74	1.59
3	KTPS VI	1.17	1.12	1.30	1.74	1.59
4	RTS -B	0.87	1.16	1.09	1.42	1.41
5	KTPP-I	1.50	1.86	0.92	1.25	1.43
6	KTPP-II	-	-	1.10	1.51	1.72
	Sub Total					
	Hydel Stations					
7	Nagarjuna Complex	1.69	1.94	2.07	3.13	3.14
8	Srisaialam LBHES	1.32	1.35	1.78	1.94	2.04
9	Small Hydel(Pochapad -I .Singur, Nizam sagar & Palair HES)	0.55	0.54	0.51	0.61	0.74
10	Mini Hydels(Pedda pally HES)	0.09	0.09	0.09	0.10	0.13
11	Pochampad Stage -II	0.09	0.09	0.08	0.10	0.12
12	Priya dharshini Jurala	0.63	0.74	0.41	0.58	0.71
13	Lower Jurala HES	-	-	0.41	0.58	0.71
14	Pulichinthala HES	0.00	-	0.02	0.21	0.50
	Sub total					
Total (Thermal & Hydel Stations)		10.68	12.31	14.22	18.42	19.12

* The average of three years employee cost is considered in respect of KTPP-II
The average of two years employee cost is considered in respect of LJHES
The one year (FY2018-19) employee cost in respect of PCHES

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Annexure A5-II								
R&M (FY2014-19)								
WPI	4.26%							(Rs in Crs)
S.No	Name of the Station	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	Avg of 2014-19	Kn
	Thermal Stations	1	2	3	4	5		
1	KTPS O&M	73.12	73.14	91.75	50.27	35.03	64.66	5.37%
2	KTPS-V	42.56	38.91	31.29	26.78	26.79	33.26	1.56%
3	KTPS VI	42.56	38.91	31.29	26.78	26.79	33.26	1.36%
4	RTS -B	6.41	4.93	8.33	5.65	6.02	6.27	7.27%
5	KTPP-I	31.47	42.18	22.04	19.14	26.07	28.18	1.10%
6	KTPP-II	0.00	0.00	26.45	22.97	31.28	26.90	0.85%
	Sub Total	196.12	198.07	211.13	151.60	151.98	181.78	1.67%
	Hydel Stations							
7	Nagarjuna Complex	4.21	10.19	10.80	8.29	7.11	8.12	0.63%
8	Srisailem LBHES	10.81	3.20	15.14	7.01	8.69	8.97	0.27%
9	Small Hydel(Pochapad -I, Singur, Nizam sagar & Palair HES)	0.48	0.41	1.33	3.18	3.74	1.83	1.51%
10	Mini Hydels(Peddapally HES)	0.08	0.07	0.23	0.54	0.63	0.31	0.99%
11	Pochampad Stage -II	0.08	0.07	0.22	0.53	0.62	0.30	1.03%
12	Priya dharshini Jurala	1.19	1.40	1.73	2.24	1.51	1.61	0.23%
13	Lower Jurala HES	0.00	0.04	1.73	2.24	1.51	1.88	0.12%
14	Pulichinthala HES	0.00	0.00	0.07	0.44	0.95	0.95	0.22%
	Sub total	16.85	15.37	31.24	24.47	24.77	23.97	
	Total (Thermal & Hydel Stations)	212.96	213.44	242.37	176.06	176.75	205.75	

* The average of three years GFA and R&M is considered in respect of KTPP-II
The average of two years GFA and R&M is considered in respect of LJHES


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	GFA (FY2014-19)				
FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	Avg of 2014-19
1	2	3	4	5	
1187.67	1235.80	1287.64	1200.63	1112.87	1,205
2121.30	2127.51	2129.31	2134.64	2135.66	2,130
2388.52	2398.31	2398.82	2494.42	2519.93	2,440
65.97	86.09	92.74	92.76	93.26	86
2529.96	2548.41	2559.68	2559.68	2587.51	2,557
0.00	3039.35	3039.35	3045.77	3360.74	3,149
8293.42	11435.47	11507.54	11527.90	11809.97	10,915
1095.93	1097.41	1097.41	1248.02	1948.10	1297.37
3375.66	3372.69	3376.06	3376.06	3376.06	3375.31
120.59	120.84	120.84	120.84	120.84	120.79
31.30	31.35	31.35	31.35	31.35	31.34
29.60	29.60	29.60	29.60	29.74	29.63
687.11	687.73	688.91	688.91	689.79	688.49
0	1141.99	1515.33	1542.75	1549.18	1545.96
0	0.00	226.98	364.48	442.63	442.63
5340.20	6482	7086.48	7,402	8188	6899.59
13633.62	17917.08	18594.02	18929.90	19997.65	17814.45


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Annexure A5-III							
A&G (FY2014-19)							
Inflation		4.81%					(Rs in Crs)
S.No	Name of the Station	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	Avg of 2016-19
	Thermal Stations	1	2	3	4	5	6
1	KTPS O&M	14.27	19.16	9.58	16.99	26.89	17.82
2	KTPS-V	8.87	10.92	11.03	11.67	11.35	11.35
3	KTPS VI	8.87	10.92	11.03	11.67	11.35	11.35
4	RTS -B	4.34	2.23	5.21	6.08	6.02	5.77
5	KTPP-I	4.85	2.75	4.55	3.98	3.87	4.13
6	KTPP-II	-	1.92	4.57	4.78	4.64	4.66
	Sub Total	41.20	47.91	45.97	55.17	64.13	7.33
	Hydel Stations						
8	Nagarjuna Complex	5.50	7.49	7.57	7.37	7.05	7.33
9	Srisailem LBHES	5.18	6.65	7.06	6.92	6.96	6.98
10	Small Hydel(Pochapad -I ,Singur, Nizam sagar & Palair HES)	0.47	0.68	0.74	0.85	0.99	0.86
11	Mini Hydels(Pedda pally HES)	0.08	0.11	0.13	0.14	0.17	0.15
12	Pochampad Stage -II	0.08	0.11	0.12	0.14	0.17	0.14
13	Priya dharshini Jurala	1.05	1.12	1.60	1.29	1.08	1.32
14	Lower Jurala HES	-	0.53	1.03	1.70	1.69	1.69
15	Pulichimthala HES	-	-	0.06	0.25	1.30	1.30
	Sub total	12.37	16.69	18.31	18.66	19.41	19.78
	Total (Thermal & Hydel Stations)	53.57	64.60	64.28	73.83	83.54	73.88

* The average of two years A&G expenses are considered in respect of LJHES

The one year (FY2018-19) A&G expenses in respect of PCHES


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