

KTPS O&M Passing of credits to TSDISCOMS - Non Tariff Income

Net Fixed Assets as per Hon'ble TSERC:

Year	GFA	ADDITIONS	Accum.Dep	DEP	NFA
2014 - 15	1187.67	48.13	804.20	53.96	377.64
2015 - 16	1235.80	51.84	858.16	40.07	389.41
2016 - 17	1287.64	5.39	898.23	17.01	377.79
2017 - 18	1293.03	5.52	915.24	17.01	366.30
2018 - 19	1298.55	18.73	932.25	17.01	368.02
2019 - 20	1317.28		949.26	16.86	351.16

Particulars	(in Crs.)	Receipts during	
		FY 22-23	FY 23-24
Total Sale Value	485.05	242.525	242.525
Less: Net Fixed Assets in Regulatory Accounts as on 31.03.2020	351.16	175.58	175.58
Net Profit to be passed on the DISCOMS as NTI	133.89	66.95	66.95



**TELANGANA STATE ELECTRICITY
REGULATORY COMMISSION,
HYDERABAD**

**Aggregate Revenue Requirement (ARR)
and Determination of Generation Tariff
of 3rd Control Period 2014 - 2019
for
Telangana State Power Generation
Corporation Limited (TSGENCO)**

5th June, 2017

• **Return on Capital Employed (RoCE):**

The RoCE has been worked out in accordance with Clause 12.1, Regulation No.1 of 2008 except for KTPP II, wherein, the CERC Regulations, 2014 is adopted. The Commission here by approves a total RoCE of Rs.8,177.75 Cr against the claim of Rs.9,646.97 Cr for the control period 2014-19.

Table 4.7. RoCE for FY 2014-15 (₹ Cr)

Plant		GFA Opening	Acc dep	Net block	Working capital	WACC	RoCE
KTPS O&M	Filings	1154.95	804.20	350.75	492.07	14.00%	117.99
	Approved	1187.67	804.20	383.47	415.40	13.40%	107.05
RTS-B	Filings	69.36	40.99	28.37	38.45	14.00%	9.36
	Approved	65.97	40.99	24.98	34.84	13.40%	8.02
KTPS Stage V	Filings	2196.60	1621.73	574.87	287.72	14.00%	120.76
	Approved	2121.30	1621.73	499.57	235.45	13.40%	98.49
KTPP Stage 1	Filings	2664.55	636.88	2027.67	356.18	14.00%	333.74
	Approved	2529.96	442.07	2087.89	328.03	13.10%	316.43
KTPS Stage VI	Filings	2474.07	408.84	2065.23	434.43	14.00%	349.95
	Approved	2388.52	408.84	1979.68	396.61	13.18%	313.13
KTPP Stage II	Filings	0.00	0.00	0.00	0.00	14.00%	0.00
	Approved	0.00	0.00	0.00	0.00	13.19%	0.00
Nagarjuna Sagar Complex HES	Filings	1104.80	634.86	469.94	56.52	14.00%	73.70
	Approved	1095.93	635.50	460.43	40.73	13.40%	67.16
Srisaillam LBPH	Filings	3383.25	963.92	2419.33	139.10	14.00%	358.18
	Approved	3375.66	963.92	2411.74	119.73	13.40%	339.22
Small Hydel	Filings	121.85	62.17	59.68	9.15	14.00%	9.64
	Approved	120.29	58.04	62.25	8.08	13.40%	9.42
Mini Hydel	Filings	31.30	14.58	16.72	1.96	14.00%	2.62
	Approved	31.30	14.58	16.72	1.51	13.40%	2.44
Pochampadu-II	Filings	30.07	3.24	26.83	2.02	14.00%	4.04
	Approved	29.60	3.24	26.36	1.87	13.40%	3.78
Priyadarshini Jurala HES	Filings	702.76	89.68	613.08	31.44	14.00%	90.23
	Approved	687.11	89.68	597.43	29.51	13.36%	83.78
Lower Jurala HES	Filings	0.00	0.00	0.00	0.00	14.00%	0.00
	Approved	0.00	0.00	0.00	0.00	13.35%	0.00
Pulichinthala HES	Filings	0.00	0.00	0.00	0.00	14.00%	0.00
	Approved	0.00	0.00	0.00	0.00	12.88%	0.00

Fixed charges approved

The total fixed charges approved by the Commission for the third control period (2014-19) are Rs.20,184.98 Cr as against Rs.22,885.17 Cr claimed in the petition.

Table 4.13. Fixed charges for FY 2014-15(₹ Cr)

Plant		Depreciation	O & M Expenses	ROCE	Fixed charges
KTPS O&M	Filings	68.74	372.90	117.99	559.63
	Approved	53.96	372.90	107.05	533.91
RTSB	Filings	2.71	32.37	9.36	44.44
	Approved	2.71	32.37	8.02	43.10
KTPS Stage V	Filings	32.00	143.40	120.76	296.16
	Approved	12.63	143.40	98.49	254.52
KTPP Stage 1	Filings	194.81	96.00	333.74	624.55
	Approved	183.85	96.00	316.43	596.28
KTPS Stage VI	Filings	181.69	96.00	349.95	627.64
	Approved	181.69	96.00	313.13	590.82
KTPP Stage II	Filings	0.00	0.00	0.00	0.00
	Approved	0.00	0.00	0.00	0.00
Nagarjuna Sagar Complex HES	Filings	34.85	58.53	73.70	167.08
	Approved	34.85	50.91	67.16	152.92
Srisailem LBPH	Filings	113.91	47.98	358.18	520.07
	Approved	113.91	41.29	339.22	494.42
Small Hydel	Filings	4.17	21.44	9.64	35.25
	Approved	4.00	18.53	9.42	31.95
Mini Hydel	Filings	0.98	3.64	2.62	7.24
	Approved	0.03	3.14	2.44	5.61
Pochampadu-II	Filings	1.00	3.45	4.04	8.49
	Approved	1.00	3.10	3.78	7.88
Priyadarshini Jurala HES	Filings	22.79	21.16	90.23	134.18
	Approved	22.79	19.39	83.78	125.96
Lower Jurala HES	Filings	0.00	0.00	0.00	0.00
	Approved	0.00	0.00	0.00	0.00
Pulichinthala HES	Filings	0.00	0.00	0.00	0.00
	Approved	0.00	0.00	0.00	0.00
Total	Filings	657.65	896.88	1,470.21	2,997.24
	Approved	611.42	877.04	1,348.92	2,837.38

Table 4.14. Fixed charges for FY 2015-16 (₹ Cr)

Plant		Depreciation	O & M	RoCE	Fixed charges
KTPS O&M	Filings	68.74	396.32	115.51	580.57
	Approved	40.07	396.32	103.53	539.92
RTSB	Filings	2.71	34.40	12.60	49.71
	Approved	2.71	34.40	10.88	47.99
KTPS Stage V	Filings	32.00	152.40	119.09	303.49
	Approved	11.31	152.40	98.03	261.74
KTPP Stage 1	Filings	194.81	102.06	313.22	610.09
	Approved	184.28	102.06	295.28	581.62
KTPS Stage VI	Filings	181.69	102.06	318.94	602.69
	Approved	181.69	102.06	283.47	567.22
KTPP Stage II	Filings	0.00	2.41	11.15	13.56
	Approved	0.00	2.41	10.60	13.01
Nagarjuna Sagar Complex HES	Filings	34.85	62.42	75.80	173.07
	Approved	31.93	52.95	62.64	147.52
Srisaillam LBPH	Filings	113.91	51.17	342.38	507.46
	Approved	113.91	42.94	323.44	480.29
Small Hydel	Filings	4.17	22.86	9.32	36.35
	Approved	4.01	19.27	8.94	32.22
Mini Hydel	Filings	0.98	3.88	2.50	7.36
	Approved	0.03	3.27	2.45	5.75
Pochampadu-II	Filings	1.00	3.68	3.91	8.59
	Approved	1.00	3.22	3.65	7.87
Priyadarshini Jurala HES	Filings	22.79	22.57	87.32	132.68
	Approved	22.79	20.17	80.81	123.77
Lower Jurala HES	Filings	21.29	9.25	91.34	121.88
	Approved	21.29	11.27	86.14	118.70
Pulichinthala HES	Filings	0.00	0.00	0.00	0.00
	Approved	0.00	0.00	0.00	0.00
Total	Filings	678.94	965.48	1,503.09	3,147.49
	Approved	617.85	962.49	1,302.88	2,883.22

Table 4.15. Fixed charges for FY 2016-17 (₹ Cr)

Plant		Depreciation	O & M	RoCE	Fixed charges
KTPS O&M	Filings	68.74	421.29	119.59	609.62
	Approved	17.01	421.29	102.65	540.95
RTSB	Filings	2.71	36.57	14.11	53.39
	Approved	2.71	36.57	11.03	50.31
KTPS Stage V	Filings	32.00	162.00	115.11	309.11
	Approved	10.25	162.00	96.25	268.50
KTPP Stage 1	Filings	194.81	108.48	288.18	591.47
	Approved	185.35	108.48	273.90	567.73
KTPS Stage VI	Filings	181.69	108.48	296.66	586.83
	Approved	181.69	108.48	257.97	548.14
KTPP Stage II	Filings	253.85	117.14	519.42	890.41
	Approved	164.67	117.14	499.42	781.23
Nagarjuna Sagar Complex HES	Filings	46.82	66.56	159.51	272.89
	Approved	31.67	55.07	58.40	145.14
Srisaillam LBPH	Filings	113.91	54.56	326.99	495.46
	Approved	113.91	44.66	308.54	467.11
Small Hydel	Filings	4.17	24.38	8.79	37.34
	Approved	4.00	20.05	8.43	32.48
Mini Hydel	Filings	0.98	4.14	2.37	7.49
	Approved	0.90	3.40	2.47	6.77
Pochampadu-II	Filings	1.00	3.93	3.78	8.71
	Approved	1.00	3.35	3.52	7.87
Priyadarshini Jurala HES	Filings	22.79	24.07	84.39	131.25
	Approved	22.79	20.97	77.92	121.68
Lower Jurala HES	Filings	58.65	46.89	211.68	317.22
	Approved	58.65	27.28	152.39	238.32
Pulichinthala HES	Filings	2.71	5.08	11.65	19.44
	Approved	2.71	2.06	15.23	20.00
Total	Filings	984.83	1,183.56	2,162.23	4,330.62
	Approved	887.59	1,181.99	1,812.23	3,881.81

Table 4.16. Fixed charges for FY 2017-18 (₹ Cr)

Plant		Depreciation	O & M	RoCE	Fixed charges
KTPS O&M	Filings	68.74	447.81	110.96	627.51
	Approved	17.01	447.81	101.31	566.13
RTSB	Filings	2.71	38.87	13.81	55.39
	Approved	2.71	38.87	10.74	52.32
KTPS Stage V	Filings	32.00	172.20	111.11	315.31
	Approved	10.23	172.20	95.32	277.75
KTPP Stage 1	Filings	194.81	115.32	260.67	570.80
	Approved	184.10	115.32	249.43	548.85
KTPS Stage VI	Filings	181.69	115.32	271.02	568.03
	Approved	181.69	115.32	233.86	530.87
KTPP Stage II	Filings	339.79	124.56	644.31	1108.66
	Approved	171.01	124.56	476.95	772.52
Nagarjuna Sagar Complex HES	Filings	46.82	70.98	153.14	270.94
	Approved	31.55	57.27	54.19	143.01
Srisaillam LBPH	Filings	113.91	58.19	311.09	483.19
	Approved	113.91	46.44	293.19	453.55
Small Hydel	Filings	4.17	26.00	8.27	38.44
	Approved	3.94	20.85	7.91	32.70
Mini Hydel	Filings	0.98	4.41	2.24	7.63
	Approved	0.89	3.54	2.36	6.79
Pochampadu-II	Filings	1.00	4.19	3.65	8.84
	Approved	1.00	3.49	3.39	7.88
Priyadarshini Jurala HES	Filings	22.79	25.67	81.23	129.69
	Approved	22.79	21.81	74.88	119.48
Lower Jurala HES	Filings	66.95	67.18	277.75	411.88
	Approved	66.95	29.88	195.45	292.28
Pulichinthala HES	Filings	19.16	28.84	82.72	130.72
	Approved	18.62	7.04	45.33	70.99
Total	Filings	1,095.53	1,299.54	2,331.97	4,727.04
	Approved	909.80	1,279.01	1,759.37	3,948.18

Table 4.17. Fixed charges for FY 2018-19 (₹ Cr)

Plant		Depreciation	O & M	RoCE	Fixed charges
KTPS O&M	Filings	57.05	475.98	102.12	635.15
	Approved	17.01	475.98	100.02	593.01
RTSB	Filings	2.71	41.32	13.52	57.55
	Approved	2.71	41.32	10.46	54.49
KTPS Stage V	Filings	32.00	183.06	107.13	322.19
	Approved	8.81	183.06	94.39	286.26
KTPP Stage 1	Filings	194.81	122.58	233.19	550.58
	Approved	182.97	122.58	225.15	530.70
KTPS Stage VI	Filings	181.69	122.58	245.41	549.68
	Approved	181.69	122.58	209.77	514.04
KTPP Stage II	Filings	339.79	132.34	596.14	1068.27
	Approved	171.01	132.34	454.36	757.71
Nagarjuna Sagar Complex HES	Filings	46.82	75.70	146.80	269.32
	Approved	31.49	59.56	50.02	141.07
Srisaïlam LBPH	Filings	113.91	62.05	295.22	471.18
	Approved	113.91	48.30	277.85	440.06
Small Hydel	Filings	4.17	27.73	7.75	39.65
	Approved	3.91	21.68	7.41	33.00
Mini Hydel	Filings	0.98	4.70	2.12	7.80
	Approved	0.89	3.68	2.24	6.81
Pochampadu-II	Filings	1.00	4.47	3.52	8.99
	Approved	1.00	3.63	3.26	7.89
Priyadarshini Jurala HES	Filings	22.79	27.37	78.07	128.23
	Approved	22.79	22.69	71.84	117.32
Lower Jurala HES	Filings	66.95	71.64	268.43	407.02
	Approved	66.95	31.07	186.43	284.45
Pulichinthala HES	Filings	19.16	30.76	80.07	129.99
	Approved	19.16	8.29	53.34	80.79
Total	Filings	1,083.84	1,382.26	2,179.47	4,645.57
	Approved	903.74	1,356.92	1,644.37	3,905.03



Telangana State Electricity Regulatory Commission
5th Floor, Singareni Bhavan, Red Hills, Lakdi-ka-pul, Hyderabad 500 004

ORDER

ON

**True-up for 3rd control period for FY 2014-15 to FY 2018-19,
Determination of Capital Cost of New Stations,
Approval of Business Plan, Capital Investment Plan and
MYT for 4th control period for FY 2019-20 to FY 2023-24**

FOR

**Telangana State Power Generation Corporation Limited
(TSGenco)**

22.03.2022

Stations	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20
KTPS-VI	-	-	-	-	-	57.12
NSHES	0.20	0.02	0.38	-	-	-
SLBHES	3.02	-	0.35	-	-	-
PJHEP	-	-	0.20	0.61	-	-
MHS	-	-	-	-	0.11	-
Head Quarters					0.02	
Total	3.22	16.50	0.93	0.61	0.12	57.12

- 4.3.5 While approving the additional capitalization for existing stations for FY 2014-15 and FY 2015-16, the Commission has considered the additional capitalization approved in the GTO dated 05.06.2017 and has deducted the decapitalised asset as submitted by the Petitioner. The additional capitalization claimed by the Petitioner and approved by the Commission for FY 2014-15 and FY 2015-16 are shown in the Table below:

Table 29: Additional capitalization approved for FY 2014-15 and FY 2015-16

Rs. in crore

Station	FY 2014-15			FY 2015-16		
	GTO	Petition	Approved	GTO	Petition	Approved
Thermal						
KTPS-O&M	48.13	48.13	48.13	51.84	51.84	51.84
KTPS-V	6.21	6.21	6.21	1.80	1.80	1.80
KTPS-VI	9.79	9.79	9.79	0.51	0.51	0.51
RTS-B	20.12	20.12	20.12	6.65	6.65	6.65
KTPP-I	18.45	18.45	18.45	11.27	11.27	-5.21
Hydel						
Nagarjuna Complex	1.48	1.48	1.28	0.00	0.00	-0.02
Srisaillam LB	-2.97	-2.97	-2.97	3.37	3.37	3.37
Small Hydel	0.25	0.25	0.25	0.00	0.00	0.00
Mini Hydel	0.04	0.04	0.04	0.00	0.00	0.00
Pochampad-II	0.00	0.00	0.00	0.00	0.00	0.00
Priyadarshini Jurala	0.62	0.62	0.62	1.18	1.18	1.18

- 4.3.6 The Commission noted that TSGenco has claimed some of additional capitalization for FY 2016-17 to FY 2018-19 which are related to expenses for Repair & Maintenance (R&M) spares and for civil & other works other than the generating station. Therefore, the Commission sought the justification for the same. The Commission has considered the submission made by TSGenco vide its response to the Commission's queries while approving the additional capitalization. The Commission has not allowed such additional capitalization claimed by TSGenco on account of spares and works incurred other than the ones on the generating station. However, the Commission has approved

additional capitalization for ash pond, electrostatic precipitator, renovation and modernisation of stations, R&M, etc., which are necessary for efficient and successful operation of the generating stations.

4.3.7 In addition, the Commission has gone through the submission of TSGenco on capitalisation of Nagarjuna Sagar Tail Pond Dam in FY 2017-18. The Commission approves the additional capitalization of Rs.809.73 crore as per the Auditor's Certificate submitted by TSGenco. The Commission has also observed that this additional capitalization is in line with its Order in I.A.No.33 of 2018 in O.P.No.26 of 2016 dated 03.01.2019.

4.3.8 Additional capitalization claimed by the Petitioner for FY 2016-17 to FY 2018-19 and approved by the Commission considering Clause 10.9 of Regulation No.1 of 2008, after prudence check are summarised in the Table below:

Table 30: Additional capitalization approved for FY 2016-17 to FY 2018-19

Rs. in crore

Station	FY 2016-17			FY 2017-18			FY 2018-19		
	GTO	As Filed	Approved	GTO	As Filed	Approved	GTO	As Filed	Approved
Thermal									
KTPS-O&M	0.00	6.28	5.39	0.00	5.62	5.52	0.00	21.85	18.73
KTPS-V	0.00	5.33	0.63	0.00	1.02	0.00	0.00	23.39	19.54
KTPS-VI	0.00	95.60	95.60	0.00	25.51	25.48	0.00	11.01	10.58
RTS-B	0.00	0.02	0.02	0.00	0.50	0.00	0.00	34.28	34.28
KTPP-I	0.00	0.00	0.00	0.00	27.83	5.63	0.00	0.25	0.00
Hydel									
Nagarjuna Complex	0.00	13.62	13.25	809.73	809.73	809.73	0.00	0.65	0.65
Srisailem LB	0.00	0.00	-0.35	0.00	0.00	0.00	0.00	0.00	0.00
Small Hydel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
Mini Hydel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.11
Pochampad II	0.00	0.00	0.00	0.00	0.14	0.14	0.00	0.00	0.00
Priyadarshini Jurala	0.00	0.00	-0.20	0.00	0.88	0.25	0.00	2.12	1.71

New Stations:

4.3.9 The Commission had provisionally approved capital cost and additional capitalization for new generating stations in the GTO dated 05.06.2017. The capital cost approved by the Commission for new stations are as under:

Table 31: Capital Cost approved in GTO dated 05.06.2017

Rs. in crore

Stations	Capital Cost on Year of COD	Capital Cost till Cut-off date	Total Capital Cost
KTPP-II	3229.78	240.84	3470.62
Lower Jurala	1332.59	210.19	1542.78
Pulichintala	228.21	205.64	433.85



Telangana State Electricity Regulatory Commission
5th Floor, Singareni Bhavan, Red Hills, Lakdi-ka-pul, Hyderabad 500 004

ORDER

ON

**MID-TERM REVIEW AND TRUING UP THE
GENERATION TARIFF
FOR FY 2019-20 TO FY 2021-22
AND
REVISED TARIFF FOR FY 2022-23 AND FY 2023-24
FOR THE EXISTING STATIONS OF**

**TELANGANA STATE POWER GENERATION
CORPORATION LIMITED (TSGENCO)**

23.03.2023

based on the documents in support of the assets capitalisation has approved the GFA with additional capitalisation and decapitalisation of assets in respective financial years. The GFA claimed by TSGENCO and approved by the Commission is as shown in the Table below:

Table 4.9: GFA claimed and approved for MTR

Rs.in crore

Sl. No.	Name of the Station	2019-20		2020-21		2021-22	
		Claimed	Approved	Claimed	Approved	Claimed	Approved
1	KTPS-O&M	776.51	776.51	0.00	0.00	0.00	0.00
2	KTPS-V	2149.48	2149.48	2152.85	2152.84	2188.98	2188.98
3	KTPS-VI	2530.48	2530.48	2496.11	2473.36	2512.68	2473.36
4	KTPS-VII	4602.87	4602.87	4777.14	4777.14	4969.67	4968.94
5	RTS-B	127.04	127.04	128.76	127.04	128.78	127.04
6	KTPP-I	2548.83	2548.83	2549.84	2548.83	2554.02	2548.83
7	KTPP-II	3408.75	3408.75	3442.87	3430.90	3526.20	3514.22
8	BTPS	0.00	0.00	0.00	0.00	4871.17	4871.17
9	Nagarjuna Complex	1920.80	1920.80	1921.60	1920.80	1922.32	1920.80
10	Srisailem LB	3375.71	3375.71	3376.25	3375.71	3376.73	3375.71
11	Small Hydel	120.54	120.54	121.40	120.54	122.17	121.31
12	Mini Hydel	31.23	31.23	31.38	31.23	31.51	31.23
13	Pochampad-II	29.74	29.74	29.88	29.74	30.01	29.74
14	Priyadarshini Jurala	690.68	690.68	691.13	690.68	703.27	690.68
15	Lower Jurala	1617.59	1617.59	1622.18	1622.02	1625.65	1625.49
16	Pulichintala	433.85	433.85	443.15	438.56	444.22	439.63
Total		24364.10	24364.10	23784.54	23739.38	29007.38	28927.11

4.7.6 As per clause 10.10 of Regulation No.1 of 2019 stipulates that the depreciation shall be determined for assets capitalised at the time of Truing-up along with the Mid-term Review based on documentary evidence of assets capitalised by the Petitioner, subject to the Prudence Check of the Commission, such that the depreciation is allowed proportionately from the date of capitalisation.

4.7.7 The Commission after prudence check and based on approved GFA has determined the depreciation in accordance with clause 10.10 of Regulation No.1 of 2019 with additional capitalisation and decapitalisation of assets in respective financial years. The depreciation claimed by TSGENCO and approved by the Commission is as shown in the Table below:

Table 4.10: Depreciation claimed and approved for MTR

Rs.in crore

Sl. No.	Name of the Station	2019-20		2020-21		2021-22	
		Claimed	Approved	Claimed	Approved	Claimed	Approved
1	KTPS-O&M	243.82	16.86	0.00	0.00	0.00	0.00