



ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION

4thFloor, Singareni Bhavan, Red Hills, Hyderabad 500004

TUESDAY, THE NINTH DAY OF MAY
TWO THOUSAND AND TWENTY THREE

:Present:

Justice C.V. Nagarjuna Reddy, Chairman
Sri Thakur Rama Singh, Member

IN THE MATTER OF

Determination of Pooled Cost of Power Purchase for FY 2021-22 to be considered for FY 2022-23 under the Renewable Power Purchase Obligation (Compliance by Purchase of Renewable Energy/Renewable Energy Certificates) Regulations, 2017 ([Regulation 1 of 2017](#))

in

[O.P.No. 14 of 2023](#)

Eastern Power Distribution Company of Andhra Pradesh Limited (APEPDCL)

[O.P.No. 15 of 2023](#)

Southern Power Distribution Company of Andhra Pradesh Limited (APSPDCL)

[O.P.No. 16 of 2023](#)

Andhra Pradesh Central Power Distribution Corporation Limited (APCPDCL)

ORDER:

The Commission notified the APERC Renewable Power Purchase Obligation (Compliance by Purchase of Renewable Energy/Renewable Energy Certificates) Regulations, 2017 (Regulation No. 1 of 2017) on 31.03.2017. Clause 6.2. (1) of the said Regulations requires the Commission to issue an order relating to Pooled Cost of Power Purchase for the particular year pursuant to a petition filed by the DISCOMs. The 'Pooled Cost of Power Purchase' in Rs./kWh determined by the Commission is the rate payable by the DISCOMs to the developers who entered into the PPAs with them to sell the Renewable Energy at the 'Pooled Cost of Power Purchase' under the REC

mechanism. Clause 2(k) of the said Regulations defines the 'Pooled Cost of Power Purchase' as hereunder:

“‘Pooled Cost of Power Purchase’ means the weighted average pooled price at which the Distribution Licensee has purchased electricity in the previous year from all the long term energy suppliers excluding the purchases based on liquid fuel.

Provided that the purchases from traders, short-term purchases, and purchases from renewable sources shall not be taken into account while determining Pooled Cost of Power Purchase.”

2. Pursuant to the said Regulations, APEPDCL, APSPDCL and APCPDCL filed separate petitions on 23.01.2023, 20.02.2023, and 07.03.2023 respectively for approval of Pooled Cost of Power Purchase for FY 2021-22 to be considered for the FY 2022-23 (The computation sheets indicating the Pooled Cost of Power Purchase as filed by APEPDCL, APSPDCL and APCPDCL are attached as ANNEXURE-I, ANNEXURE-II, and ANNEXURE-III respectively).
3. The said petitions were admitted and taken on the record of the Commission as O.P.No. 14 of 2023 for APEPDCL, O.P.No.15 of 2023 for APSPDCL, and O.P.No.16 of 2023 for APCPDCL. Public Notice was hosted on the website of the Commission on 03.04.2023 in respect of said petitions inviting interested persons/stakeholders to send their views/objections/ suggestions on the said petitions to the Secretary of the Commission by 26.04.2023, i.e., the date of the public hearing. Further, it was informed in the Public Notices that the said petitions would be taken for public hearing at 11:00 AM on 26.04.2023, and interested persons/organisations desirous of being heard in person may appear before the Commission on the said date of the public hearing.
4. No objections have been received on the petitions as of the date of the Public Hearing on 26.04.2023. Sri P. Shiva Rao, learned standing counsel for the petitioners, was present during the Public Hearing.
5. Though APEPDCL, APSPDCL, and APCPDCL filed separate petitions, the Commission is required to determine a single Pooled Cost of Power Purchase by clubbing the power purchases of the three DISCOMs in accordance with clause 6.2. (1) of the said Regulations. Therefore, the Commission has decided to issue a common order in the

above petitions determining a single Pooled Cost of Power Purchase as described below by clubbing the power purchases of the three DISCOMs.

6. The Pooled Cost data submitted by the Discoms has been compared with the [order dated 01.03.2023](#), in the matter of pass-through of Fuel & Power Purchase Cost Adjustment (FPPCA), approved by the Commission for the power purchase quantum and costs from various sources for FY 2021-22 for each DISCOM. After comparison, for arriving at the Pooled Cost of Power Purchase for FY 2021-22 to be considered for FY 2022-23, the Commission hereby approve and adopt the final power purchase quantities and costs submitted by the Discoms, after excluding the purchases based on the liquid fuel, purchases from traders, short-term purchases and purchases from renewable sources in accordance with clause 2(k) of Regulation 1 of 2017. Accordingly, the Commission computed the Pooled Cost of Power Purchase for FY 2021-22 to be considered for FY 2022-23 as Rs.4.17/kWh. The details of the calculation are shown in the ANNEXURE-IV.
7. The difference between the Provisional Pooled Cost of Power Purchase at Rs.4.60/kWh and the Pooled Cost of Power Purchase now determined in this Order shall be deducted from the developers in three equal monthly instalments along with interest at SBI MCLR rate commencing from the billing month of June 2023 instead of a lump-sum deduction by the DISCOMs to avoid any undue strain on the finances of the Developers.

The Order is corrected and signed on this the 9th day of May, 2023.

Sd/-
Thakur Rama Singh
Member

Sd/-
Justice C.V. Nagarjuna Reddy
Chairman

ANNEXURE-1

APEPDCL Pooled cost for the FY 2021-22 to be considered in FY 2022-23							
Station	Energy (MU)	Amount (Rs.Crs.)			VC Rate/ kwh	FC Rate/ kwh	Avg. Rate/kw h
		Fixed Cost	Variable Cost	Total Cost			
CGS :							
NTECL Valluru Thermal Power	207.64	41.26	70.09	111.35	3.38	1.99	5.36
NLC -Stage - I	116.88	8.41	31.16	39.57	2.67	0.72	3.39
NLC -Stage - II	182.40	13.9	48.47	62.37	2.66	0.76	3.42
NPC (MAPS)	11.60	0	3.02	3.023	2.61	0.00	2.61
NPC (Kaiga Unit-I,II & III)	319.37	0	109.13	109.13	3.42	0.00	3.42
NLC Tamilnadu Power Ltd Stage.1	213.45	37.09	68.68	105.77	3.22	1.74	4.96
NLC NNTPS (New Thermal Station)	110.81	20.92	24.26	45.18	2.19	1.89	4.08
NTPC NVVNL Bundled Power (Only COAL)	68.19	0	32.01	32.01	4.69	0.00	4.69
CGS other than NTPC (1)	1230.34	121.59	386.83	508.41	3.14	0.99	4.13
NTPC (SR) Ramagundam St.I&II	696.01	47.44	197.09	244.53	2.83	0.68	3.51
NTPC (SR) Simadri Stage 1	1115.39	130.21	319.87	450.08	2.87	1.17	4.04
NTPC (SR) Simadri Stage 2	469.81	81.63	137.5	219.13	2.93	1.74	4.66
NTPC (SR) Talcheru St.II	453.17	35.08	79.16	114.24	1.75	0.77	2.52
NTPC (SR) Ramagundam St.III	200.80	17.3	56.19	73.49	2.80	0.86	3.66
NTPC Kudgi Stage-I (New Thermal Station)	340.15	96.33	132.99	229.32	3.91	2.83	6.74
Total NTPC (2)	3275.33	407.99	922.80	1330.79	2.82	1.25	4.06
Sub Total 3 (1+2)	4505.67	529.58	1309.63	1839.20	2.91	1.18	4.08
A = CGS TOTAL	4505.67	529.58	1309.63	1839.20	2.91	1.18	4.08
SGS							
APPDCL	1916.13	313.17	577.43	890.6	3.01	1.63	4.65
Godavari Gas Power Plant (Now Own Source previously GVK-I)	177.50	7.62	45.44	53.06	2.56	0.43	2.99
Sub-Total SGS	2093.63	320.79	622.87	943.66	2.98	1.53	4.51
APGenco :							
Dr.NTTPS	2734.15	249.75	893.6	1143.35	3.27	0.91	4.18
Dr.NTTPS St.IV	1083.47	100.06	337.24	437.3	3.11	0.92	4.04
RTPP-I	461.62	69.39	177.18	246.57	3.84	1.50	5.34
RTPP-ST II	595.67	81.19	227.8	308.99	3.82	1.36	5.19
RTPP -ST III	323.72	54.48	124.15	178.63	3.84	1.68	5.52
RTPP -ST IV	861.86	221.55	313.93	535.48	3.64	2.57	6.21
Sub-Total AP Genco-Thermal	6060.49	776.42	2073.9	2850.32	3.42	1.28	4.70
Hydel-AP Genco	1332.51	222.48	0	222.48	1.67	0.00	1.67
AP Genco Total	7393.00	998.90	2073.90	3072.80	2.81	1.35	4.16
B = SGS Total	9486.63	1319.69	2696.77	4016.46	2.84	1.39	4.23
IPPs:							
Thermal Powertech Corporation India (Sembcorp)	641.91	101.42	143.43	244.85	2.23	1.58	3.81
Hinduja National Power Corpn.Ltd.(HNPCL)	80.48	0	30.74	30.74	3.82	0.00	3.82
C = IPPs Sub Total	722.39	101.42	174.17	275.59	2.41	1.403944	3.814958
TOTAL (A+B+C)	14714.69	1950.69	4180.57	6131.25	2.84	1.33	4.17

ANNEXURE-II

APSPDCL Pooled Cost for the FY 2021-2022 to be considered as 2022-2023									
SL.NO		Energy (MU)	Amount (Rs.Crs.)			Avg Rate	Avg Rate	Avg Rate	
			FC	VC	TC				
I	APGENCO THERMAL								
	1 Dr.NTTPS	3052.71	278.85	997.72	1276.57	0.91	3.27	4.18	
	2 Dr.NTTPS-IV	1209.71	111.72	376.54	488.26	0.92	3.11	4.04	
	3 RTPP Stage-I	515.41	77.48	197.82	275.30	1.50	3.84	5.34	
	4 RTPP Stage-II	665.07	90.65	254.35	344.99	1.36	3.82	5.19	
	5 RTPP Stage-III	361.44	60.82	138.62	199.44	1.68	3.84	5.52	
	6 RTPP Stage-IV	962.27	247.36	350.51	597.87	2.57	3.64	6.21	
	APGENCO THERMAL TOTAL(1 to 6)	6766.60	866.89	2315.55	3182.43	1.28	3.42	4.70	
II	1 APGenco Hydel	1487.76	248.41	0.00	248.41	1.67	0.00	1.67	
	APGENCO HYDEL TOTAL(1)	1487.76	248.41	0.00	248.41	1.67	0.00	1.67	
III	1 APPDCL	2139.38	349.66	644.71	994.37	1.63	3.01	4.65	
	2 Godavari Gas Power Plant	198.18	8.51	50.73	59.24	0.43	2.56	2.99	
	SGS SUBTOTAL(1+2)	2337.56	358.17	695.44	1053.61	1.53	2.98	4.51	
	SGS TOTAL(I+II+III)	10591.92	1473.46	3010.99	4484.45	1.39	2.84	4.23	
IV	CGS STATIONS								
	1 NTPC (SR) Ramagundam I & II	777.10	53.10	220.15	273.24	0.68	2.83	3.52	
	2 NTPC (SR) Simhadri Stage 1	1245.34	140.33	357.29	497.62	1.13	2.87	4.00	
	3 NTPC (SR) Simhadri Stage 2	524.55	91.78	153.31	245.08	1.75	2.92	4.67	
	4 NTPC (SR) Talcher St. II	505.97	39.23	88.89	128.12	0.78	1.76	2.53	
	5 NTPC (SR) Ramagundam Stage-III	224.20	19.52	62.78	82.30	0.87	2.80	3.67	
	6 NTPC Kudgi Stage 1	379.78	107.56	148.55	256.11	2.83	3.91	6.74	
	7 NTECL Valluru	231.83	46.07	78.26	124.33	1.99	3.38	5.36	
	8 NLC Stage-I	130.50	9.27	34.79	44.06	0.71	2.67	3.38	
	9 NLC Stage-II	203.65	15.63	54.11	69.75	0.77	2.66	3.42	
	10 NPC (MAPS)	12.95	0.00	3.37	3.37	0.00	2.60	2.60	
	11 NPC (Kaiga Unit-I,II & III)	356.58	0.00	121.62	121.62	0.00	3.41	3.41	
	12 NTPL (NLC Tamilnadu Power Ltd Stage-1)	238.32	41.42	76.69	118.10	1.74	3.22	4.96	
	13 NLC NNTPS	123.72	23.36	27.09	50.44	1.89	2.19	4.08	
	14 NTPC NVVNL Bundled Power (Only COAL)	76.13	0.00	35.74	35.74	0.00	4.69	4.69	
	CGS TOTAL(IV)	5030.62	587.26	1462.63	2049.89	1.17	2.91	4.07	
V	1 Thermal Powertech Corporation India	716.70	113.60	159.82	273.42	1.59	2.23	3.81	
	2 Hinduja National Power Corp Ltd(HNPCL)	89.86	0.00	34.33	34.33	0.00	3.82	3.82	
	IPP TOTAL(V)	806.56	113.60	194.15	307.75	1.41	2.41	3.82	
	GRAND TOTAL (I to V)	16429.10	2174.32	4667.76	6842.08	1.32	2.84	4.16	

ANNEXURE-III

APCPDCL Pooled Cost for the FY 2021-2022 to be considered as 2022-2023									
				Amount (Rs.Crs.)					
SL.NO			Energy (MU)	FC	VC	TC	Avg RateFC	Avg RateVC	Avg RateTC
I	APGENCO THERMAL								
	1	Dr.NTTPS	1761.88	160.94	575.83	736.77	0.91	3.27	4.18
	2	Dr.NTTPS-IV	698.18	64.48	217.32	281.80	0.92	3.11	4.04
	3	RTPP Stage-I	297.47	44.72	114.17	158.89	1.50	3.84	5.34
	4	RTPP Stage-II	383.85	52.32	146.80	199.11	1.36	3.82	5.19
	5	RTPP Stage-III	208.60	35.10	80.00	115.11	1.68	3.84	5.52
	6	RTPP Stage-IV	555.38	142.77	202.30	345.06	2.57	3.64	6.21
	APGENCO THERMAL TOTAL(1 to 6)		3905.35	500.32	1336.42	1836.75	1.28	3.42	4.70
II	1	APGenco Hydel	858.66	143.37	0.00	143.37	1.67	0.00	1.67
	APGENCO HYDEL TOTAL(1)		858.66	143.37	0.00	143.37	1.67	0.00	1.67
III	1	APPDCL	1234.74	201.81	372.10	573.90	1.63	3.01	4.65
	2	Godavari Gas Power Plant	114.38	4.91	29.28	34.19	0.43	2.56	2.99
	SGS SUBTOTAL(1+2)		1349.12	206.72	401.37	608.09	1.53	2.98	4.51
	SGS TOTAL(I+II+III)		6113.14	850.41	1737.80	2588.21	1.39	2.84	4.23
IV	CGS STATIONS								
	1	NTPC (SR) Ramagundam I & II	448.51	30.66	127.07	157.73	0.68	2.83	3.52
	2	NTPC (SR) Simhadri Stage 1	718.75	89.75	206.23	295.98	1.25	2.87	4.12
	3	NTPC (SR) Simhadri Stage 2	302.74	53.04	88.45	141.49	1.75	2.92	4.67
	4	NTPC (SR) Talcher St. II	292.02	22.65	51.37	74.02	0.78	1.76	2.53
	5	NTPC (SR) Ramagundam Stage-III	129.40	11.29	36.24	47.53	0.87	2.80	3.67
	6	NTPC Kudgi Stage 1	219.19	62.07	85.74	147.81	2.83	3.91	6.74
	7	NTECL Valluru	133.80	26.59	45.17	71.76	1.99	3.38	5.36
	8	NLC Stage-I	75.32	5.35	20.08	25.43	0.71	2.67	3.38
	9	NLC Stage-II	117.54	9.02	31.23	40.26	0.77	2.66	3.42
	10	NPC (MAPS)	7.47	0.00	1.94	1.94	0.00	2.60	2.60
	11	NPC (Kaiga Unit-I,II & III)	205.80	0.00	70.17	70.17	0.00	3.41	3.41
	12	NTPL (NLC Tamilnadu Power Ltd Stage-1)	137.55	23.90	44.26	68.16	1.74	3.22	4.96
	13	NLC NNTPS	71.40	13.48	15.63	29.11	1.89	2.19	4.08
	14	NTPC NVVNL Bundled Power (Only COAL)	43.94	0.00	20.63	20.63	0.00	4.70	4.70
	CGS TOTAL(IV)		2903.43	347.80	844.22	1192.02	1.20	2.91	4.11
V	1	Thermal Powertech Corporation India	413.64	65.06	92.75	157.81	1.57	2.24	3.82
	2	Hinduja National Power Corp Ltd(HNPCL)	51.86	0.00	19.81	19.81	0.00	3.82	3.82
	IPP TOTAL(V)		465.51	65.06	112.57	177.62	1.40	2.42	3.82
	GRAND TOTAL (I to V)		9482.08	1263.27	2694.58	3957.85	1.33	2.84	4.17

ANNEXURE - IV**Pooled Cost of Power Purchase for FY 2021-22 (To be considered for FY 2022-23)**

APDISCOMS Pooled Cost for the FY 2021-2022 to be considered as 2022-2023									
SL.NO		Energy (MU)	Amount (Rs.Crs.)			Avg Rate FC	Avg RateV C	Avg Rate TC	
			FC	VC	TC				
I	APGENCO THERMAL								
	1 Dr.NTPPS	7548.7	689.5	2467.2	3156.7	0.91	3.27	4.18	
	2 Dr.NTPPS-IV	2991.4	276.3	931.1	1207.4	0.92	3.11	4.04	
	3 RTPP Stage-I	1274.5	191.6	489.2	680.8	1.50	3.84	5.34	
	4 RTPP Stage-II	1644.6	224.1	628.9	853.1	1.36	3.82	5.19	
	5 RTPP Stage-III	893.8	150.4	342.8	493.2	1.68	3.84	5.52	
	6 RTPP Stage-IV	2379.5	611.7	866.7	1478.4	2.57	3.64	6.21	
	APGENCO THERMAL TOTAL(1 to 6)	16732.5	2143.6	5725.9	7869.5	1.28	3.42	4.70	
II	1 APGenco Hydel	3678.9	614.3	0.0	614.3	1.67	0.00	1.67	
	APGENCO HYDEL TOTAL(1)	3678.9	614.3	0.0	614.3	1.67	0.00	1.67	
III	1 APPDCL	5290.3	864.6	1594.2	2458.9	1.63	3.01	4.65	
	2 Godavari Gas Power Plant	490.1	21.0	125.4	146.5	0.43	2.56	2.99	
	SGS SUBTOTAL(1+2)	5780.3	885.7	1719.7	2605.4	1.53	2.98	4.51	
	SGS TOTAL(I+II+III)	26191.69	3643.58	7445.57	11089.15	1.39	2.84	4.23	
IV	CGS STATIONS								
	1 NTPC (SR) Ramagundam I & II	1921.6	131.2	544.3	675.5	0.68	2.83	3.52	
	2 NTPC (SR) Simhadri Stage 1	3079.5	360.3	883.4	1243.7	1.17	2.87	4.04	
	3 NTPC (SR) Simhadri Stage 2	1297.1	226.4	379.3	605.7	1.75	2.92	4.67	
	4 NTPC (SR) Talcher St. II	1251.2	97.0	219.4	316.4	0.77	1.75	2.53	
	5 NTPC (SR) Ramagundam Stage-III	554.4	48.1	155.2	203.3	0.87	2.80	3.67	
	6 NTPC Kudgi Stage 1	939.1	266.0	367.3	633.2	2.83	3.91	6.74	
	7 NTECL Valluru	573.3	113.9	193.5	307.4	1.99	3.38	5.36	
	8 NLC Stage-I	322.7	23.0	86.0	109.1	0.71	2.67	3.38	
	9 NLC Stage-II	503.6	38.6	133.8	172.4	0.77	2.66	3.42	
	10 NPC (MAPS)	32.0	0.0	8.3	8.3	0.00	2.60	2.60	
	11 NPC (Kaiga Unit-I,II & III)	881.8	0.0	300.9	300.9	0.00	3.41	3.41	
	12 NTPL (NLC Tamilnadu Power Ltd Stage-1)	589.3	102.4	189.6	292.0	1.74	3.22	4.96	
	13 NLC NNTPS	305.9	57.8	67.0	124.7	1.89	2.19	4.08	
	14 NTPC NVVNL Bundled Power (Only COAL)	188.3	0.0	88.4	88.4	0.00	4.69	4.69	
	CGS TOTAL(IV)	12439.72	1464.63	3616.47	5081.10	1.18	2.91	4.08	
V	1 Thermal Powertech Corporation India	1772.3	280.1	396.0	676.1	1.58	2.23	3.81	
	2 Hinduja National Power Corp Ltd(HNPCL)	222.2	0.0	84.9	84.9	0.00	3.82	3.82	
	IPP TOTAL(V)	1994.46	280.07	480.89	760.96	1.40	2.41	3.82	
	GRAND TOTAL (I to V)	40625.87	5388.28	11542.92	16931.21	1.33	2.84	4.17	

Sd/-
Thakur Rama Singh
Member

Sd/-
Justice C.V. Nagarjuna Reddy
Chairman