



**ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION**

4<sup>th</sup> Floor, Singareni Bhavan, Red Hills, Hyderabad 500 004

FRIDAY, THE TWENTY NINTH DAY OF APRIL  
TWO THOUSAND AND TWENTY TWO

:Present:

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

**IN THE MATTER OF**

Determination of Pooled Cost of Power Purchase for FY 2019-20 to be considered for FY 2020-21 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. 108 of 2021

Eastern Power Distribution Company of Andhra Pradesh Limited (APEPDCL)

O.P.No. 111 of 2021

Southern Power Distribution Company of Andhra Pradesh Limited (APSPDCL)

**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 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. In pursuant to the said Regulations, APSPDCL and APEPDCL filed separate petitions on 29.10.2021 and 30.10.2021 respectively for approval of Pooled Cost of Power Purchase for FY 2019-20 to be considered for the FY 2020-21. (The computation sheets indicating the Pooled Cost of Power Purchase as filed by APEPDCL and APSPDCL are attached as ANNEXURE-I and ANNEXURE-II respectively).
3. The said petition were admitted and taken on the record of the Commission as O.P.No. 108 of 2021 for APEPDCL, and O.P.No.111 of 2021 for APSPDCL. Public Notices were hosted on the website of the Commission on 23.11.2021 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 22.12.2021, 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 22.12.2021 through the web, and interested persons/organisations desirous of being heard in person may appear before the Commission on the said date of the public hearing.
4. Despite hosting the Public Notices on the website of the Commission, no objections were received as of the date of the first Public Hearing on 22.12.2021. Therefore, the Commission provided one more opportunity to the stakeholders for filing views/objections/ suggestions by hosting fresh Public Notices on the Commission’s website and the next date of hearing was fixed for 02.02.2022. During the next hearing on 02.02.2022, Sri Vishal Gupta, learned counsel representing Indian Wind Power Association stated that as certain data relating to the power purchases was not available, he was unable to file his clients' objections. The Commission suggested to him to send an email to Sri P. Shiva Rao, learned standing counsel for the petitioners, on the details of data required to be furnished and posted the matter for

the next hearing on 16.03.2022. The final hearing of the matter took place on 16.03.2022. Sri P.Shiva Rao, learned standing counsel for the petitioners and Sri Vishal Gupta, learned counsel for some of the objectors, and Sri M.Venugopal Rao, objector were present during the final hearing. Sri Vishal Gupta, learned counsel, submitted that after going through the filings of the petitioners, his clients did not find any particular defect or error in the calculation, and the commission may accordingly determine the Pooled Cost of Power Purchase. Sri M.Venugopal Rao, learned objector suggested that at least in the future, the Regulation may be amended so as to determine the Pooled Cost of Power Purchase in line with the present market prices.

5. Though APEPDCL and APSPDCL filed separate petitions, the Commission is required to determine a single Pooled Cost of Power Purchase by clubbing the power purchases of both the 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 both the DISCOMs.
6. The commission in the order dated 30.03.2022 in O.P.No.15 of 2021 and O.P.No 37 of 2021 in the matter of True-up of Retail Sale of Electricity for FY 2019-20 in respect of APEPDCL and APSPDCL respectively, determined the True-up of power purchase quantum and costs from various sources for FY 2019-20 for each DISCOM. Therefore, for arriving at the Pooled Cost of Power Purchase for FY 2019-20 to be considered for FY 2020-21, the Commission adopted the final power purchase quantities and costs determined from various sources in the above order 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 2019-20 to be considered for FY 2020-21 as Rs.4.02/kWh. The details of the calculation are shown in the ANNEXURE-III.
7. The difference between the Provisional Pooled Cost of Power Purchase at Rs.3.741/kWh and the Pooled Cost of Power Purchase now determined in this Order shall be paid to the developers in six equal monthly instalments commencing from the billing month of May 2022

to facilitate the DISCOMs to make payments in a staggered manner rather than by a lump-sum payment to avoid any undue strain on the finances of the DISCOMs.

The Order is corrected and signed on this the 29<sup>th</sup> day of April 2022.

**Sd/-**  
**Thakur Rama Singh**  
**Member**

**Sd/-**  
**Justice C.V. Nagarjuna Reddy**  
**Chairman**

**Sd/-**  
**P. Rajagopal Reddy**  
**Member**





## ANNEXURE - I

APEPDCL POOLED COST for the FY 2019-20 to be considered for FY 2020-21							
Station	Energy (MU)	Amount (Rs.Crs.)			VC Rate/kwh	FC Rate/kwh	Avg. Rate/kwh
		Fixed Cost	Variable Cost	Total Cost			
CGS :							
NTECL Vatturu Thermal Power	128.89	58.12	49.57	107.70	3.85	4.51	8.36
NLC -Stage - I	112.97	8.56	30.61	39.17	2.71	0.76	3.47
NLC -Stage - II	195.40	16.79	53.01	69.79	2.71	0.86	3.57
NPC (MAPS)	20.56	0.00	5.82	5.82	2.83	0.00	2.83
NPC (Kaiga Unit-I,II & III)	297.09	0.00	110.05	110.05	3.70	0.00	3.70
NLC Tamilnadu Power Ltd Stage.1	222.08	46.49	85.75	112.24	2.96	2.09	5.05
NLC NNTPS (New Thermal Station)	9.51	1.71	2.18	3.90	2.30	1.80	4.10
NTPC NVVNL Bundled Power (Only COAL)	61.80	0.00	29.67	29.67	4.80	0.00	4.80
NTPC NSM Phase-II, Bundled Power (COAL)	1013.20	0.00	438.38	438.38	4.33	0.00	4.33
CGS other than NTPC (1)	2061.50	131.67	785.05	916.72	3.81	0.64	4.45
NTPC (SR) Ramagundam St.I&II	654.51	47.30	170.57	217.86	2.61	0.72	3.33
NTPC (SR) Simadri Stage 1	998.83	141.98	344.11	486.09	3.45	1.42	4.87
NTPC (SR) Simadri Stage 2	398.27	73.74	133.75	207.48	3.36	1.85	5.21
NTPC (SR) Talcheru St.II	387.70	31.48	78.01	109.49	2.01	0.81	2.82
NTPC (SR) Ramagundam St.III	172.86	13.38	44.47	57.85	2.57	0.77	3.35
NTPC WR & NR Stations (Only for Sep'19)	109.30	24.09	41.01	65.10	3.75	2.20	5.96
NTPC Kudgi Stage-I (New Thermal Station)	251.25	110.80	94.58	205.38	3.76	4.41	8.17
Total NTPC (2)	2972.73	442.76	906.49	1349.25	3.05	1.49	4.54
Less : surcharge (3)							
NTECL Vatturu Thermal Power		-20.92	0.00	-20.92			
NTPC		-16.54	0.00	-16.54			
NTPC NSM Phase-II, Bundled Power (COAL)		0.00	0.00	0.00			
Total surcharge	0.00	-37.46	0.00	-37.46			
A = CGS TOTAL (1+2)	5034.22	536.98	1691.54	2228.52	3.36	1.07	4.43
APGPCL ST-I	9.39	0.98	3.19	4.16	3.40	1.04	4.43
APGPCL ST-II	42.18	3.37	14.61	17.98	3.46	0.80	4.26
APPDCL	2278.35	330.94	698.41	1029.35	3.07	1.45	4.52
Godavari Gas Power Plant (Now Own Source previously GVK-I)	215.08	8.89	63.46	72.36	2.95	0.41	3.36
APGenco :							
Dr NNTPS	2411.09	227.32	801.18	1028.50	3.32	0.94	4.27
Dr.NNTPS St.IV	1024.17	112.70	319.32	432.02	3.12	1.10	4.22
RTPP-I	417.51	87.36	158.87	246.23	3.81	2.09	5.90
RTPP-ST II	623.85	84.81	238.08	322.89	3.82	1.36	5.18
RTPP -ST III	192.05	86.73	73.07	159.80	3.80	4.52	8.32
RTPP -ST IV	754.36	25.72	289.43	315.15	3.84	0.34	4.18
Hydel	1205.72	206.60	0.00	206.60	0.00	1.71	1.71
GENCO RTPP Stage-IV Suppl FC for 2019-20	0.00	88.68	0.00	88.68			
APGENCO Sub Total	6628.75	919.93	1879.94	2789.87	2.84	1.39	4.22
B = SGS Total	9173.75	1264.11	2659.61	3923.72	2.90	1.38	4.28
Thermal Powertech Corporation Ind	835.09	101.08	147.57	248.66	2.32	1.59	3.92
Srivathsa	3.38	0.16	0.99	1.15	2.93	0.48	3.41
KSK	731.95	112.65	201.31	313.96	2.75	1.54	4.29
C = IPPs Sub Total	1370.41	213.89	349.87	563.77	2.55	1.56	4.11
TOTAL (A+B+C)	15578.39	2014.98	4701.03	6716.01	3.02	1.29	4.31

## ANNEXURE - II

Station	Energy (MU)	Fixed Cost	Variable Cost	Total Cost	VC Rate/kwh	FC Rate/kwh	Rate/kwh
<b>CGS (A)</b>							
NTECL Valluru Thermal Power	376.09	169.60	144.66	314.26	3.85	4.54	8.39
NLC -Stage - I	329.66	74.98	80.32	155.30	2.74	0.75	3.47
NLC -Stage - II	570.18	48.98	154.68	203.66	2.74	0.25	3.51
NPC (MAPS)	59.90	0.00	16.98	16.98	2.83	0.00	2.83
NPC (Kaga Unit II & III)	866.90	0.00	321.13	321.13	3.70	0.00	3.70
NLC Tamilnadu Power Ltd Stage 1	648.03	135.66	191.85	327.51	2.99	2.00	5.55
NLC NTPS (New Thermal Station)	27.75	5.00	6.37	11.38	2.30	1.80	4.10
NTPC NSM Phase-II Bundled Power (COAL)	180.32	0.00	86.59	86.59	4.80	0.00	4.80
CGS (B) (1) NTPC (1)	2956.53	0.00	1279.20	1279.20	4.33	0.00	4.33
NTPC (SR) Ramagundam St I&II	6015.46	384.22	2290.78	2575.00	3.81	0.64	4.45
NTPC (SR) Simadri Stage 1	1909.86	138.02	497.71	635.73	2.51	0.72	3.23
NTPC (SR) Simadri Stage 2	2914.59	414.30	1004.10	1418.41	3.45	1.42	4.87
NTPC (SR) Talcheru St II	1162.16	215.16	390.27	605.43	3.36	1.85	5.21
NTPC (SR) Ramagundam St III	1131.30	91.85	227.63	319.49	2.01	0.81	2.82
NTPC (SR) Ramagundam St III	504.42	39.04	129.77	168.81	2.57	0.77	3.35
NTPC WR & NR Stations (Only for Sep 1)	318.94	70.29	119.68	189.97	3.75	2.20	5.95
NTPC Kudgi Stage-I (New Thermal Station)	733.16	323.31	275.98	599.29	3.76	4.41	8.17
<b>Total NTPC (2)</b>	<b>8674.43</b>	<b>1291.98</b>	<b>2645.14</b>	<b>3937.13</b>	<b>3.05</b>	<b>1.49</b>	<b>4.54</b>
Less : surcharge							
NTECL Valluru Thermal Power		-48.28	0.00	-48.28			
NTPC		-61.07	0.00	-61.07			
NTPC NSM Phase-II, Bundled Power (COAL)		0.00	0.00	0.00			
<b>Total surcharge (3)</b>	<b>0.00</b>	<b>-109.35</b>	<b>0.00</b>	<b>-109.35</b>			
<b>A = CGS TOTAL (1+2)</b>	<b>14689.89</b>	<b>1566.86</b>	<b>4935.92</b>	<b>6502.78</b>	<b>3.36</b>	<b>1.07</b>	<b>4.43</b>
APGPCL ST-I	27.41	2.85	9.31	12.15	3.40	1.04	4.43
APGPCL ST-II	123.09	9.84	42.62	52.46	3.46	0.80	4.26
APPDCL	6648.22	965.68	2037.97	3003.65	3.07	1.45	4.52
Godavan Gas Power Plant (Now Own Source previously GVK-I)	627.60	25.95	185.19	211.14	2.95	0.41	3.36
<b>APGenco :</b>							
Dr.NTPS	7035.58	663.33	2337.84	3001.17	3.32	0.94	4.27
Dr.NTPS St.IV	2988.52	328.86	931.76	1260.62	3.12	1.10	4.22
RTPP-I	1218.30	254.92	463.58	718.50	3.81	2.09	5.90
RTPP-ST II	1820.39	247.47	694.73	942.20	3.82	1.36	5.18
RTPP -ST III	560.39	253.09	213.21	466.30	3.80	4.52	8.32
RTPP -ST IV	2201.24	75.06	844.55	919.61	3.84	0.34	4.18
Hydel	3518.31	602.87	0.00	602.87	0.00	1.71	1.71
GENCO RTPP Stage-IV Suppl FC for 2019-20	0.00	258.77	0.00	258.77			
<b>APGENCO Sub Total</b>	<b>19342.73</b>	<b>2684.37</b>	<b>5485.67</b>	<b>8170.04</b>	<b>2.84</b>	<b>1.39</b>	<b>4.22</b>
<b>B = SGS , Total</b>	<b>26769.05</b>	<b>3688.68</b>	<b>7760.75</b>	<b>11449.43</b>	<b>2.90</b>	<b>1.38</b>	<b>4.28</b>
Thermal Powertech Corporation India	1853.18	294.96	430.62	725.59	2.32	1.59	3.92
Srivathsa	9.87	0.47	2.89	3.36	2.93	0.48	3.41
KSK	2135.82	328.71	587.42	916.13	2.75	1.54	4.29
<b>C = IPPs Sub.Total</b>	<b>3998.87</b>	<b>624.15</b>	<b>1020.94</b>	<b>1645.08</b>	<b>2.55</b>	<b>1.56</b>	<b>4.11</b>
<b>TOTAL (A+B+C)</b>	<b>45457.81</b>	<b>5879.69</b>	<b>13717.61</b>	<b>19597.30</b>	<b>3.02</b>	<b>1.29</b>	<b>4.31</b>



**ANNEXURE - III****Pooled Cost of Power Purchase for FY 2019-20 (To be considered for FY 2020-21)**

Station	Total Energy Purchased (MU)	Total Fixed Cost	Total Variable Cost	Other Cost	Total Cost	Avg Rate/ kwh Total
<b>APGENCO-Thermal</b>						
Dr. NTPPS Stage-I,II & III	7,704	756	2,214	0	2,970	3.86
Dr. NTPPS Stage-IV	3,160	339	834	0	1,174	3.71
RTPP Stage-I	1,488	287	495	0	782	5.25
RTPP Stage-II	1,433	277	492	0	769	5.37
RTPP Stage-III	495	265	168	0	433	8.76
RTPP Stage-IV	1,122	225	436	0	660	5.89
<b>Total APGENCO-Thermal</b>	<b>15,402</b>	<b>2,149</b>	<b>4,639</b>	<b>0</b>	<b>6,788</b>	<b>4.41</b>
<b>APPDCL</b>						
APPDCL Stage-I	9,173	1,034	2,498	0	3,532	3.85
<b>Total APPDCL</b>	<b>9,173</b>	<b>1,034</b>	<b>2,498</b>	<b>0</b>	<b>3,532</b>	<b>3.85</b>
<b>APGENCO-Hydel</b>						
Srisaillam Right Bank Power House	885	205	0	0	205	2.32
Nagarjunasagar Right Canal Power House	111	22	0	0	22	1.99
Nagarjunasagar Tail Pond Power House(AP)	30	51	0	0	51	16.95
Upper Sileru Power House	674	72	0	0	72	1.07
Lower Sileru Power House	1,077	138	0	0	138	1.28
Donkarayi Canal Power House	81	7	0	0	7	0.93
Machkund Power House (AP Share)	327	37	0	0	37	1.12
Tungabhadra Dam Power House (AP Share)	119	25	0	0	25	2.09
<b>Total APGENCO-Hydel</b>	<b>3,303</b>	<b>557</b>	<b>0</b>	<b>0</b>	<b>557</b>	<b>1.68</b>
<b>CGS</b>						
NTPC(SR) Ramagundam I & II	655	139	431	0	570	8.71
NTPC(SR) Simhadri Stage-I	2,473	345	739	0	1,084	4.39
NTPC(SR) Simhadri Stage-II	896	206	267	0	473	5.28
NTPC(SR) Talcher Stage-II	1,194	89	190	0	279	2.34
NTPC(SR) Ramagundam- Stage-III	505	38	116	0	154	3.05
NTPC-Kudgi	357	319	133	0	452	12.64

Vallur Thermal Power Plant	557	135	144	0	279	5
NLC TS-II Stage- I	271	24	76	0	100	3.69
NLC TS-II Stage- II	455	45	128	0	173	3.8
NPC-MAPS	107	0	19	0	19	1.78
NPC-KAIGA unit I,II,III,IV	832	0	254	0	254	3.05
Tuticorin Thermal Power Station	805	139	205	0	344	4.27
NLC- NNTPS	248	50	62	0	111	4.49
JNNSM Ph-1 Thermal	288	32	79	0	111	3.84
JNNSM Ph-2 Thermal	3,900	289	1,160	0	1,449	3.71
<b>Total CGS</b>	<b>13,543</b>	<b>1,849</b>	<b>4,002</b>	<b>0</b>	<b>5,851</b>	<b>4.32</b>
<b>APGPCL</b>						
APGPCL I	31	2	8	0	11	3.48
APGPCL II	101	6	27	0	34	3.31
<b>Total APGPCL</b>	<b>132</b>	<b>8</b>	<b>35</b>	<b>0</b>	<b>43</b>	<b>3.35</b>
<b>Gas Power Plant</b>						
Godavari Gas Power Plant	877	61	209	0	270	3.08
<b>Total Gas Power Plant</b>	<b>877</b>	<b>61</b>	<b>209</b>	<b>0</b>	<b>270</b>	<b>3.08</b>
<b>IPPs - Others</b>						
Srivathsa (Exclusive APEPDCL)	10	0	3	0	3	3.4
KSK Mahanadi (MT)	2,567	407	678	0	1,085	4.23
Sembcorp Energy India Ltd (SEIL)	1,693	293	355	0	648	3.83
HNPCL	942	0	360	0	360	3.82
<b>Total IPPs Others</b>	<b>5,212</b>	<b>701</b>	<b>1,396</b>	<b>0</b>	<b>2,097</b>	<b>4.02</b>
<b>Total</b>	<b>47,642</b>	<b>6,372</b>	<b>12,780</b>	<b>0</b>	<b>19,152</b>	<b>4.02</b>

**Sd/-**  
**Thakur Rama Singh**  
**Member**

**Sd/-**  
**Justice C.V. Nagarjuna Reddy**  
**Chairman**

**Sd/-**  
**P. Rajagopal Reddy**  
**Member**