

**TSTRANSCO's Replies to Sri M. Venugopala Rao, Senior Journalist, Hyderabad**  
**in O.P.No.9 of 2023 & I.A. No.6 of 2023 of the Hon'ble TSERC**  
(TSTRANSCO Resource Plan for 5<sup>th</sup> Control period & 6<sup>th</sup> Control period)

Sl. No.	Objection/Suggestion	Reply of TSTRANSCO																																																																
1	<p>In the revised resource plan, TSTRANSCO has shown availability of surplus power during the fifth control period as given below:</p> <table><tr><th></th><th>2024-25</th><th>2025-26</th><th>2026-27</th><th>2027-28</th><th>2028-29</th></tr><tr><td>1. Energy Availability</td><td>120222.65</td><td>126791.41</td><td>126440.73</td><td>126018.08</td><td>121516.01</td></tr><tr><td>2. Energy Requirement</td><td>84996.88</td><td>89766.97</td><td>94773.75</td><td>100285.88</td><td>105956.88</td></tr><tr><td>3. Surplus energy</td><td>35225.77</td><td>37024.22</td><td>31666.98</td><td>25732.20</td><td>15559.03</td></tr></table> <p>In the revised resource plan, TRANSCO has reduced availability of surplus power during the 5<sup>th</sup> control period by about 1000 MU per annum compared to the surplus projected by it in the earlier resource plan submitted by it to the Commission. While TSDISCOMs have tried to show in their replies given to our submissions after the earlier public hearing that there will be no availability of surplus power during the 5<sup>th</sup> control period based on their subsequent presumptions, TSTRANSCO has shown that there will be a marginal reduction only in the projected availability of surplus power as per its revised resource plan compared to the surplus projected in its earlier resource plan. Our earlier submission dated 28.06.2023 hold good for the revised</p>		2024-25	2025-26	2026-27	2027-28	2028-29	1. Energy Availability	120222.65	126791.41	126440.73	126018.08	121516.01	2. Energy Requirement	84996.88	89766.97	94773.75	100285.88	105956.88	3. Surplus energy	35225.77	37024.22	31666.98	25732.20	15559.03	<p>A) Due to the Combined impact of delay of commissioning of new generating stations, LIS projections received from I&amp;CAD Department and availability as per historical actual PLFs, the Discoms had revised the energy surplus / deficit as per the Additional Information submitted by the Discoms vide their letter dated 16-09-2023 as follows.</p> <table><tr><th rowspan="3">Particular</th><th colspan="5">Impact of Energy Balance in Telangana State</th></tr><tr><th colspan="5">5th Control Period</th></tr><tr><th>2024-25</th><th>2025-26</th><th>2026-27</th><th>2027-28</th><th>2028-29</th></tr><tr><td>Energy Availability</td><td>93191</td><td>100071</td><td>99840</td><td>99136</td><td>96449</td></tr><tr><td>Energy Requirement</td><td>90587</td><td>94885</td><td>99371</td><td>104310</td><td>109354</td></tr><tr><td>Surplus/(Deficit)</td><td>2604</td><td>5186</td><td>469</td><td>(5174)</td><td>(12905)</td></tr><tr><td>% of Surplus to Availability</td><td>3%</td><td>5%</td><td>0%</td><td>-5%</td><td>-12%</td></tr></table> <p>B) In spite of repeated requests to the Ministry of Power, Govt. of India for 100 % power allocation to Telangana state from TSTPP as per the AP Re-organisation Act, 2014, the MOP has clarified that the request cannot be acceded to since cabinet accorded approval for allocation</p>	Particular	Impact of Energy Balance in Telangana State					5th Control Period					2024-25	2025-26	2026-27	2027-28	2028-29	Energy Availability	93191	100071	99840	99136	96449	Energy Requirement	90587	94885	99371	104310	109354	Surplus/(Deficit)	2604	5186	469	(5174)	(12905)	% of Surplus to Availability	3%	5%	0%	-5%	-12%
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<p>projections of TSTRANSCO in its revised resource plan and, as such, we are not repeating the same here. This surplus is after considering availability of 1390.813 MW from TSTPP of NTPC, instead of the earlier 1600 MW for Telangana, thereby giving up the claim for allocation of total capacity of the project for the state. Future addition of NCE is taken into account @4% per annum on the total solar energy availability during the 5<sup>th</sup> control period. In addition to the existing major lift irrigation schemes of Kaleshwaram LI load of 5068 MW, flood flow canal loads of 156 MW and Sita Rama LI loads of 650 MW, the proposed Palamur-Rangareddy LI loads of 5375 MW and additional 1 TMC loads t Link-II and Link-IV of Kaleshwaram LI scheme including Manchippa, Yacharam Thanda and New Manchippa of 3013 MW are taken into account for projecting availability and requirement of energy during the 5<sup>th</sup> control period.</p>	<p>of 85% power to Telangana from TSTPP. Further, SRPC vide letters dated 28.07.2023 and 28.09.2023 has allocated 1.926% from the balance 15% unallocated quota to Telangana and remaining power in the unallocated quota is allocated to the other needy states. Thus the total share to Telangana state would be tentatively 86.926% only i.e., 1390.813 MW out of 1600 MW.</p> <p>C)</p> <ul style="list-style-type: none"><li>(i) The Proposed Additional 1 TMC loads at Link-I &amp; Link-IV of Kaleshwaram LI Schemes including Manchippa, YacharamThanda &amp; New Manchippa loads were considered for 5<sup>th</sup> control period. These works may be completed during 2024-25 as per the progress.</li><li>(ii) Lift Irrigation works are Deposit Contributory works which are funded by Govt., of Telangana and certain LI works which were proposed during 4<sup>th</sup> control period were not completed and are under progress as these works are depended on the progress of I&amp;CAD pump house works. Further LIS at Dharmasagar in Warangal District proposed during 4<sup>th</sup> control period was not taken up as there is no response from I&amp;CAD department for executing the same.</li><li>(iii) The true up of the LI Works proposed during 4<sup>th</sup> control period were submitted year on year.</li></ul>
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In the revised resource plan also, TSTRANSCO has not given any information and analysis of implementation of its resource plan for the 4<sup>th</sup> control period. It has simply revised the projected capital cost under the revised resource plan for the 5<sup>th</sup> control period to Rs.3781.65 crore against the earlier projected Rs.3322.34 crore, The investment plan does not include the cost of lift irrigation substations and associated lines, as they are going to be funded by the department of irrigation. Proposals of TSTRANSCO show that most of the proposed investments are for strengthening the existing system. In view of the same, analysis of the implementation of TRANSCO’s resource plan for the 4<sup>th</sup> control period gains added importance to ascertain whether requirement of transmission capacity for the 5<sup>th</sup> control period has already been added, with the projections of requirements for the 4<sup>th</sup> control period turning out to be unrealistic and inflated. Second, whether the proposed projects and works have been implemented in scheduled timelines and within the limits of approved costs also need to be examined. Whether transmission capacity has been added to meet peak demand actually reached during the 4<sup>th</sup> control period or exceeded it substantially also needs to be examined. If the resource plan has been implemented as projected/approved for the 4<sup>th</sup> control period, with substantial shortfall, it implies that TSTRANSCO must have collected transmission tariffs more than what has been due and such variation in revenue needs to be trued down. Appropriate lessons need to be drawn from the experience during the 4<sup>th</sup> control period for preparing and finalizing its resource plan for the 5<sup>th</sup> control period. Therefore, we once gain request the Hon’ble Commission to direct TSTRANSCO to submit analysis of implementation of its resource plan for the 4<sup>th</sup> control period and provide us the same to enable us to study it and make further submissions.

Analysis of implementation of Resource Plan for the 4<sup>th</sup> control period is as follows :

	Completed	Works in progress	Carry forward to 5 <sup>th</sup> Control Period	Cancelled
220kV Schemes	38%	13%	21%	28%
132kV Schemes	32%	14%	34%	20%

In respect of 400kV Transmission schemes including 400kV LIS, against the total forecasted amount for the first 4 years of 4<sup>th</sup> Control Period (FY2019-20 to FY 2022-23), the actual expenditure is within the proposed forecasted amount and there is no cost overrun in Project cost. No forecasted amount is proposed during last year of 2023-24. However the spillover of forecasted project cost during the first 4 years is proposed to be met during the year 2023-24 of 4<sup>th</sup> Control Period.

2) The Peak Load reached (MW) has been on par with the Resource Plan projections. The actual vs projected peak load (in MW) is as shown below :

Particulars	Unit	2019-20	2020-21	2021-22	2022-23
Peak Load (MW) at Grid Level - Projected	MW	13168	13810.04	14919.42	16013.62
Peak Load reached (MW) at Grid Level - Actuals	MW	13168	13688	14160	15497
Date		28.02.2020	26.03.2021	29.03.2022	30.03.2023

3) Also, the actual addition of infrastructure (EHT sub-stations, Power Transformers and transmission lines) against the projected growth in the Resource Plan for the 4<sup>th</sup> control period is as follows:

Item	Total Added during 2019-24 (up to 10/23)	Proj as per RP for 2019-24
EHT Sub-stations (incl. LIS , Bulk Loads & Generators)		
400 KV	10	7
220 KV	22	23
132 KV	18	51
Total :	50	81
Power Transformers (PTRs-Nos.)	227	154
Transmission Lines (in CKm) (incl. LIS , Bulk Loads, Generators & Inter-state Lines)		
400 KV	1845	1968.39
220 KV	1838	1657.55
132 KV	1155	1948.93
Total:	4838	5574.87

		<p>The works during the FY2020-21 and FY2021-22 were affected by Covid pandemic.</p> <p>4) The variation in revenue due to Resource Plan projections and actual expenditure is being monitored by the TSERC and the same is being adjusted annually by truing up/truing down against the Annual Performance Review (True up) filings made by TSTRANSCO for each year of the 4<sup>th</sup> Control Period by the Hon'ble Commission.</p>
3	We request the Hon'ble Commission to provide us an opportunity to make further submissions after receiving responses of TSTRANSCO to our submission and during the public hearing.	