

**BEFORE THE RAJASTHAN ELECTRICITY REGULATORY
COMMISSION, JAIPUR**

FILE NO.

CASE NO.

IN THE MATTER OF:

Petition under Section 86(1)(b) and other applicable provisions of the Electricity Act, 2003 for seeking approval for procurement of 160 MW RTC power for 5 years on the basis of the Model Bidding documents viz Request for Qualification (RFQ), Request for Proposal (RFP) and Power Supply Agreement (PSA) issued under MoP, Govt Guidelines dated 29th January 2019 for medium term Procurement of Electricity from Thermal Power Stations set up on Finance, Own and Operate (FOO) basis for meeting the power requirement of Rajasthan Discoms

Rajasthan Urja Vikas Nigam Limited (RUVNL)

.....Petitioner

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SYNOPSIS

The Petitioner, through the present Petition, intends to seek approval to initiate a bidding process to procure 160 MW RTC power from power generating stations for a period of 5 years. This power will be procured as per guidelines issued by Ministry of Power for procurement of medium-term power i.e. on Finance, Own and Operate basis (the "FOO") in order to meet the power deficit as assessed by the Energy Assessment Committee ("EAC").

It is significant to highlight that the EAC has in its 28th meeting dated 07.01.2022 assessed the demand of electricity and anticipated requirement of RTC capacity for meeting the demand for the period from FY 2022-23 upto FY 2029-30. Looking at un-precedented increase in demand of electricity in the post-covid era, even Central Electricity Authority has allowed/directed all retiring thermal power plants to continue its operations till FY 2029-30.

At present, there is an urgent requirement of 160 MW. EAC had considered phase out of 640 MW from Kota Thermal Power Plant during the FY 2022-23 and 1000 MW of Suratgarh Thermal Power Plant during the subsequent years. Also, state has received allocation of 281.60 MW from THDC Khurja thermal power plant. Taking into consideration, that 640 MW capacity from Kota TPP, 1000 MW capacity from Suratgarh Thermal Power Plant and 281 MW from THDC Khurja TPP is available, revised RTC deficit is as follow:

Financial Year	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30
Capacity phased-out	-640	0	-250	-250	-250	-250	-250	0
Surplus/(Deficit)	-294	-738	-1479	-2434	-3593	-4808	-6082	-7170
Tie-up on RTC basis (MW)	294	444	741	956	1159	1215	1274	1088
RTC capacity without capacity phase-out	346	-98	-307	-1021	-1930	-2895	-3919	-5007


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Further, Nuclear Power Corporation of India Ltd has intimated that RAPS-B unit-1 (Rajasthan Share 62.50 MW) outage is being taken for mandatory replacement of Enmasse Reactor Coolant Channels & reactor feeders w.e.f 27/10/2022 to 28/05/2024 (around 577 days). Therefore, deficit for FY 2022-23 will be 160.50 MW (98 MW + 62.50 MW). Hence in all fairness, we are not before this Hon'ble Commission seeking approval of the complete 738 MW that was finalised by the EAC but have only limited the sought approval to 160 MW.

Therefore, the Petitioner has approached this Hon'ble Commission for seeking approval of power procurement of 160 MW power based on the standard bidding documents issued by Ministry of Power on 'Finance Own and Operate' basis for the purpose of meeting out the power deficit. While preparing the bid document for its proposed medium-term power procurement, the Petitioner shall act as per the extant guidelines dated 29.01.2019 issued by Ministry of Power, Government of India for procurement of medium-term power.

Hence, the present Petition.

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Rajasthan Urja Vikas Nigam Limited (RUVNL)

.....Petitioner

Filed by:


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BEFORE THE RAJASTHAN ELECTRICITY REGULATORY COMMISSION, JAIPUR

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IN THE MATTER OF:

Rajasthan Urja Vikas Nigam Limited (RUVNL)

.....**Petitioner**


Executive Engineer (RA-III)
RUVNL, Jaipur

BEFORE THE RAJASTHAN ELECTRICITY REGULATORY COMMISSION, JAIPUR**Case No. of 2023****IN THE MATTER OF:**

Petition under Section 86(1)(b) and other applicable provisions of the Electricity Act, 2003 for seeking approval for procurement of 160 MW RTC power for 5 years on the basis of the Model Bidding documents viz Request for Qualification (RFQ), Request for Proposal (RFP) and Power Supply Agreement (PSA) issued under MoP, GoI Guidelines dated 29th January 2019 for medium term Procurement of Electricity from Thermal Power Stations set up on Finance, Own and Operate (FOO) basis for meeting the power requirement of Rajasthan Discoms

Rajasthan Urja Vikas Nigam Limited (RUVNL)**...Petitioner:**

To,

The Hon'ble Chairman and other members of the Hon'ble Rajasthan Electricity Regulatory Commission, Jaipur

THE HUMBLE PETITIONER IN THE ABOVE-MENTIONED PETITION**MOST RESPECTFULLY SHOWETH:**

1. That the Petitioner on behalf of Distribution Licensees i.e. Jaipur Vidyut Vitran Nigam Limited, Ajmer Vidyut Vitran Nigam Limited and Jodhpur Vidyut Vitran Nigam Limited intends to initiate a bidding process to procure 160 MW power from power generating stations for a period of 5 years on RTC basis with effect from FY 2023-24. The procurement shall be based on the guidelines dated 29.01.2019 and model bidding documents prescribed by the Ministry of Power, Government of India.


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2. That the EAC in its 28th meeting held on 07.01.2022 reviewed the demand considering the impact of providing day power in two blocks to agriculture consumers. The RTC deficit as assessed and finalised by EAC for period upto FY 2029-30 is as under:

Financial Year	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30
Capacity phased-out	-640	0	-250	-250	-250	-250	-250	0
Surplus/(Deficit)	-294	-738	-1479	-2434	-3593	-4808	-6082	-7170
Tie-up on RTC basis (MW)	294	444	741	956	1159	1215	1274	1088

Subsequently Board of Directors, RUVNL in its 48th meeting held on 08.03.2022 accorded approval for procurement of RTC power requirements as mentioned above for each year upto FY 2026-27 through tariff based competitive bidding process from conventional sources.

It is evident from the above table that 640 MW capacity was supposed to be phased out in FY 2022-23 and accordingly a deficit of 738 MW was assessed and finalised for FY 2023-24.

There is an unprecedented increase in demand of electricity in the post pandemic period. It is evident from the Ministry of Power's letter dated 26.05.2022 bearing no. 23/13/2021-R&R (Pt-1), wherein all domestic coal based power plants were directed under Section 11 of the Electricity Act, 2003 to mandatorily import coal to meet the increased demand of electricity across the country. True copy of the letter dated 26.05.2022 bearing no. 23/13/2021-R&R (Pt-1) consisting of Ministry of Power's direction under Section 11 of the Electricity Act, 2003 (along with its annexures) is annexed and marked herewith as **Annexure P-1**.


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Central Electricity Authority ("CEA") in its circular dated 20.01.2023 bearing no. CEA-TH-14-24/5/2022-TRM-Dvision/235-335 has advised not to retire any thermal units till FY 2029-30 and urged for carrying out R&M for life extension and improve flexibility and reliability of thermal units considering the expected demand scenario and availability of capacity in future.

Further, the state of Rajasthan has also witnessed substantial increase in demand of electricity. EAC for its demand projections had considered a CAGR of 6.18% for the energy requirement as per 19th Electric Power Survey (EPS) report of CEA. However, CEA in its 20th EPS report has provided the electricity requirement of Rajasthan for the period from FY 2021-22 to FY 2026-27 considering a CAGR of 8.23%.

True copy of minutes of meeting of EAC meeting held on 07.01.2022 is annexed and marked herewith as **Annexure P-2**. True copy of the circular dated 20.01.2023 bearing no. CEA-TH-14-24/5/2022-TRM-Dvision/235-335 issued by the Central Electricity Authority, Ministry of Power is annexed and marked herewith as **Annexure P-3**.

3. That the Energy Department, GoR vide its letter dated 28.12.2022 bearing no. F.2(4)Energy/2020 addressed to CMD, Rajasthan Rajya Vidyut Utpadan Nigam Ltd. ("RRVUNL") conveyed approval of the State Government to operate the old units of KSTPS units # 1 to 4 beyond 31.12.2022 till the CoD of the new 2x660 MW ultra supercritical units # 7 & 8 at Chhabra, proposed against phasing out of old units or upto 31.12.2027 whichever is later. True copy of the letter dated 28.12.2022 bearing no. F.2(4)Energy/2020 written by the Energy Department, GoR to the CMD, RRVUNL is annexed and marked herewith as **Annexure P-4**.
4. That RRVUNL which is a Government of Rajasthan undertaking and is the state electricity generating company, wrote a letter dated 05.01.2023 bearing no. RVUN/CE(PPC-PT&T)/SE(PP)/F./D.2336 to the Petitioner herein



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regarding retirement schedule of KSTPS and STPS as intimated by RRVUNL to CEA along with present status. True copy of the letter dated 05.01.2023 bearing no. RVUN/CE(PPC-PT&T)/SE(PP)/F./D.2336 written by RRVUNL to the Petitioner along with the said retirement schedule is annexed and marked herewith as **Annexure P-5**.

5. That, Ministry of Power has made an allocation of 281 MW from THDC's Khurja Thermal Power Plant to Rajasthan. This power is expected to be available from FY 2024-25. Also, Nuclear Power Corporation of India Ltd has vide its letter dated 12.10.2022 has intimated that outage of RAPS-B unit-1 (Rajasthan Share 62.50 MW) is being taken for mandatory replacement of Enmasse Reactor Coolant Channels & reactor feeders with effect from 27.10.2022 to 28.05.2024 (around 577 days). Therefore, there will be additional deficit of 62.50 MW RTC capacity during FY 2023-24. A copy of the letter issued by NPCIL is annexed and marked herewith as **Annexure P-6**.
6. Considering availability of power from Kota thermal power plant, Surigarh Thermal Power Plant and THDC's Khurja thermal power plant revised deficit as assessed by EAC is provided below:

Financial Year.	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
Capacity phased-out as considered by EAC	-640	0	-250	-250	-250	-250
Surplus/(Deficit)	-294	-738	-1479	-2434	-3593	-4808
Tie-up on RTC basis as per EAC (MW)	294	444	741	956	1159	1215
NPCIL capacity not available		-62.50				
Revised deficit considering availability of KTPS, STPS & THDC Khurja	346	-160.50	-307	-1021	-1930	-2895

7. That Ministry of Power, Government of India vide its letter No. 23/17/2013-R&R(Vol-VI) (Part 2) dated 29.01.2019 issued "Revised Guidelines for


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