



सेंद्रल ट्रान्समिशन यूटिलिटी ऑफ इंडिया लिमिटेड

(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)

(भारत सरकार का उद्यम)

CENTRAL TRANSMISSION UTILITY OF INDIA LTD.

(A wholly owned subsidiary of Power Grid Corporation of India Limited)

(A Government of India Enterprise)

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As per distribution list

Subject: Finalization of sharing of bays at Bikaner-III PS as well as for reallocation of connectivity from Bikaner-IV PS to Bikaner-III PS and Barmer-I PS to Fatehgarh-IV PS(Sec-II)- Minutes of Meeting

Dear Sir/Ma'am,

Please find enclosed minutes of the Meeting for Finalization of sharing of bays at Bikaner- III PS as well as for reallocation of connectivity from Bikaner-IV PS to Bikaner-III PS and Barmer-I PS to Fatehgarh-IV PS(Sec-II) in Northern Region held on 2nd January 2024(Tuesday)

Thanking you,

Yours faithfully,

(V Thiagarajan)

Sr. General Manager(CTU)

Distribution List:

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Minutes of meeting held on 02.01.2024 for deliberation on sharing of bays at Bikaner-III PS as well as reallocation of connectivity from Bikaner-IV PS to Bikaner-III PS & Barmer-I PS to Fatehgarh-IV PS

List of participants is enclosed at Annex-1.

It was informed that in the 23rd & 25th CMETS NR meetings held on 29.08.2023 & 31.10.2023 respectively, in view of availability of margins in respective bays, connectivity to various entities were granted in sharing with other entities at Bikaner-III PS & Fatehgarh-IV PS(Sec-II). Subsequently, CTUIL received requests from some applicants to review sharing of connectivity agreed among entities for various reasons. Based on the request, it was decided to discuss the matter in a separate meeting.

The matter related to Fatehgarh-IV PS was deliberated first followed by matter related to Bikaner-III PS

A. Fatehgarh-IV PS(Sec-II)

It was informed that in the 23rd CMETS NR meeting held on 29.08.2023, M/s Avaada Energy Pvt. Ltd. (50 MW) was granted connectivity at Fatehgarh-IV PS(Sec-II) in sharing with M/s Radiant Star Solar(200 MW) through 220 kV line bay. Therefore, only 50 MW balance margin was available at Fatehgarh-IV PS(Sec-II) on that bay. Subsequently, M/s Radiant applied for enhancement of connectivity of 100 MW at Fatehgarh-IV PS(Sec-II). However, in view of non-availability of 100 MW in Fatehgarh-IV (Sec-II), the connectivity of M/s Radiant(100 MW) was agreed to be granted at Barmer-I PS in the 25th CMETS NR meeting.

Subsequently, M/s Avaada vide letter dated 17.11.23 informed that they have submitted application for 250 MW at same site and location & expansion of the same project. In view of the above, M/s Avaada requested that, in case of margin constraint at Fatehgarh-IV PS, total connectivity of 300 MW (50+250 MW) may be granted together at Barmer-I PS.

CTUIL informed that as there is limitation at Fatehgarh-IV PS(Sec-II) due to no. of 400/220 kV ICTs & considering connectivity quantum already granted, additional connectivity of 250 MW to Avaada cannot be granted at Fatehgarh-IV PS(Sec-II). Therefore, it was proposed that based on the request of M/s Avaada, 50 MW connectivity granted to M/s Avaada at Fatehgarh-IV PS(Sec-II) shall be reviewed and same shall be considered for grant at Barmer-I PS along with other application of 250 MW by M/s Avaada in the ensuing CMETS NR meeting. Further, it was also informed that the transmission system for Avaada (50 MW) shall also be revised (from Fatehgarh-IV PS(Sec-II) to Barmer-I PS) as per application priority based on CMETS NR discussion. M/s Avaada agreed for the same.

CTUIL informed that considering shifting of 50 MW connectivity of M/s Avaada from Fatehgarh-IV PS(Sec-II) to Barmer-I PS, about 100 MW of connectivity can be accommodated at Fatehgarh-IV PS(Sec-II) in 220 kV bay granted to M/s Radiant Star.

RE applicants enquired whether they can shift a part of their connectivity from Barmer-I PS to Fatehgarh-IV PS(Sec-II) and retain the remaining connectivity quantum at Barmer-I PS. Regarding this, CTUIL informed that under GNA Regulations, a single application connectivity cannot be split up and granted at different pooling station. However, if applicants (except RPPDs) with connectivity of above 100 MW wish to shift 100 MW to Fatehgarh-IV PS(Sec-II), then they can reduce their application connectivity quantum and installed capacity to 100 MW or below.

Accordingly, the list of applicants granted connectivity at Barmer-I PS as per application priority were asked for their willingness

The details of option exercised by applicants granted connectivity at Barmer-I are as below:

Sl. No.	Applicant Name	Application Number	Appl. Date	Connectivity Quantum (MW)	Option exercised to shift connectivity to Fatehgarh-IV PS (Sec-II)
1	Teq Green Power XV Pvt. Ltd.	2200000153	11.07.2023	300	Not opted
2	ACME Cleantech	2200000161	29.07.2023	400	Not opted
3	Eden Renewable Cadet Pvt. Ltd.	2200000181	11.08.2023	300	Not present (Considered as not opted)
4	Radiant Star Solar Park Pvt. Ltd.	2200000212	28.08.2023	100	Opted
5	Enren-I Energy Pvt. Ltd.	2200000286	30.09.2023	300	NA

Based on the options exercised, it was decided to shift connectivity of M/s Radiant Star (App No. 220000212-100 MW) to Fatehgarh-IV PS(Sec-II) along with the earlier granted connectivity of 200 MW. The details of revised transmission system for M/s Avaada(50 MW) & Radiant Star(100 MW) shall be confirmed in the ensuing CMETS NR meeting. M/s Avaada & M/s Radiant agreed for the same.

B. Bikaner-III PS

It was informed that as part of Transmission system for Rajasthan REZ Ph-4 (Part-1), Bikaner-III PS is being established (Awarded on 27/12/23) for evacuation of 7.7 GW from Bikaner-II PS (3.7 GW) & Bikaner-III PS (4 GW). As per the above scheme, 5x500 MVA ICTs along with 5 no. of 220 kV line bays for RE applicants are being implemented at Bikaner-III PS. Connectivity of 1617 MW at 220 kV (incl. Renew Dinkar) and 2400 MW connectivity at 400 kV was granted at Bikaner-III PS (4017 MW) as below:

S. No.	Name of Applicant	Connectivity Quantum (MW)	Bay allocated
Connectivity Granted at 400 kV			
1	MRS Build Vision Pvt. Ltd.	1000	1
2	Sunbreeze Renewable	1400	2
	Total(A)	2400	
Connectivity Granted at 220 kV			
1	TP Saurya	300	1
2a	Proteus Energy*	217	1
2b	Avaada RJBikaner	50	
2c	Sunsure Solarpark RJ One	50	
3	ACME Cleantech	300	1
4a	Juniper Cosmic*	150	1
4b	Renew Dinkar Urja	200	
5a	Sunsure Solarpark RJ One*	50+50+50+50	1
5b	Saimaa Solar	150	
	Total(B)	1617	
	Total Connectivity (A+B)	4017	

* Lead in case of sharing

CTUIL highlighted the major developments related to Bikaner-III PS as below:

- In the 23rd CMETS NR meeting held on 29.08.2023, connectivity of M/s Avaada RJ Bikaner(50 MW) was agreed to be granted in sharing with M/s Proteus(217 MW) at Bikaner-III PS.
- Further, in the 25th CMETS meeting held on 31.10.2023, another application of 50 MW by M/s Sunsure was also granted in sharing with M/s Proteus on same bay (S. No. 2c).

- During 25th CMETS NR meeting and vide mail dated 30.10.2023, M/s Sunsurre requested CTUIL to explore option to grant the connectivity of 5x50MW(including 50 MW being shared with M/s Proteus) at a single bay.
- M/s Avaada vide letter dated 01.11.2023 informed that they have submitted application for 600 MW at same site and location and expansion of the same project (50 MW at Bikaner-III).
- M/s Avaada requested CTUIL that in case of margin constraint at Bikaner-III PS, total connectivity of 650 MW (including 50 MW being shared with M/s Proteus at Bikaner-III PS) may be granted together at Bikaner-IV PS.
- M/s Renew Dinkar Urja was granted connectivity of 200 MW in sharing with M/s Juniper Green Cosmic (150 MW). M/s Renew vide letter dated 09.11.2023 informed that they are not going ahead with the project and withdrew the connectivity of 200 MW for which application was also closed subsequently.

CTUIL informed that review of sharing among different entities as requested by M/s Sunsurre shall be discussed first followed by reallocation of connectivity from Bikaner-IV PS to Bikaner-III PS.

CTUIL informed that as per Avaada's request, 50 MW Connectivity may be considered along with the 600 MW application at Bikaner-IV PS for deliberations in next CMETS-NR meeting. However, it is to be noted that, in case of shifting of 50 MW connectivity to Bikaner-IV PS, transmission system for connectivity under GNA shall change. M/s Avaada agreed for the same

Considering the above request of Sunsurre, Avaada (50 MW) and withdrawal by Renew Dinkar Urja (200 MW), CTUIL proposed the sharing of connectivity at 220 kV bays at Bikaner-III PS as below:

S. No.	Name of Applicant	Connectivity Quantum (MW)	Bay allocated	Margin in Bay (MW)
Connectivity Granted at 400 kV				
1	MRS Build Vision Pvt. Ltd.	1000	1	NIL
2	Sunbreeze Renewable	1400	2	NIL
	Total(A)	2400		
Connectivity Granted at 220 kV				
1	TP Saurya	300	1	NIL
2	Proteus Energy*	217	1	83
3	ACME Cleantech	300	1	NIL
4a	Juniper Cosmic*	150	1	NIL
4b	Saimaa Solar	150		
5	Sunsure Solarpark RJ One*	50+50+50+50+50	1	50
	Total(B)	1367		
	Total Connectivity (A+B)	3767		133

* Lead in case of sharing

Regarding the above proposal,

- M/s Saimaa informed that they do not agree for above proposed sharing with Juniper as the location of M/s Juniper is about 30 km away from their location. M/s Saimaa informed that though they applied via Land BG route, after the grant of connectivity, they have acquired land near to the same location considering their sharing with Sunsurre which is also located in the nearby area.
- M/s Sunsurre indicated that with proposed sharing arrangement of Saimaa Solar, their additional 50 MW connectivity in sharing may also be adjusted at this bay with total 400 MW connectivity.

- CTU informed that, earlier also their 50 MW was considered in above bay making it 200 MW. Now, for additional 50 MW, this won't be possible in view of margins available in Proteus bay as well as S/s very close to technical limits for allocation.

M/s Sunsure & M/s Saimaa were asked to discuss mutually and finalize their sharing arrangement and confirm the same to CTUIL on or before 07.01.2023. It was also informed that in case no communication is received by CTUIL from M/s Sunsure and M/s Saimaa, the existing sharing arrangements between the two shall be continued.

Further, as mentioned in the in-principle intimation, duly signed sharing agreements were to be submitted within one (1) month of the intimation by M/s Sunsure & M/s Saimaa as well as M/s Proteus & M/s Sunsure. As the time period has already elapsed, M/s Sunsure, Saimaa as well as M/s Proteus are to share their sharing agreements within a week.

Proposed Reallocation from Bikaner-IV to Bikaner-III PS

CTUIL informed that at Bikaner-III PS connectivity was granted upto 4 GW due to limitation of 765/400 kV ICT (6x1500 MVA) under N-1 contingency considering injection from Bikaner-II through 400 kV 2xD/c line. Accordingly, with total connectivity of 4017 MW at Bikaner-III PS, the Bikaner-III PS was closed for new grant of connectivity in 25th CMETS NR meeting. Subsequent applications received at Bikaner complex were granted at Bikaner-IV PS.

Now, after withdrawal of 200 MW application by M/s Renew Dinkar Urja, the connectivity at 220 kV & total connectivity at Bikaner-III PS has been reduced to 1417 MW & 3817 MW respectively.

In the 25th CMETS-NR meeting held on 31.10.2023, transmission system for evacuation of 3.6 GW from Bikaner-IV PS (Ph-4 Part-3) was discussed and agreed. The scheme was also approved in the 70th NRPC meeting held on 18.11.2023. The scheme is to be taken up for approval by NCT and MoP. In addition, Bikaner-IV PS (Ph-4 Part-3a) transmission scheme for evacuation of additional 2.4 GW capacity was also discussed in the joint study meeting held on 28/12/23.

With the above new transmission schemes at Bikaner-IV, it is observed that cumulative connectivity upto about 4600 MW may now be granted at Bikaner-III PS. However, such connectivity grant (above 4000 MW) shall be linked to Bikaner-IV transmission system. This would facilitate additional RE integration in Bikaner complex including Bikaner-III PS.

Considering request of Avaada (50 MW), CTUIL informed that connectivity of 650 MW to M/s Avaada at Bikaner-III PS can be granted if margin for 650 MW remains at Bikaner-III PS after reallocation option exercised by other applicants at Bikaner-IV PS who are above M/s Avaada (600 MW) in application priority. In case there is no margin for 650 MW after reallocation, the connectivity of combined capacity of 650 MW shall be considered for grant at Bikaner-IV PS. M/s Avaada agreed for the same.

Accordingly, after excluding Avaada (50 MW) and considering withdrawal by Renew Dinkar Urja (200 MW), connectivity granted at Bikaner-III PS now remains 3767 MW (2400 MW at 400 kV & 1367 MW at 220 kV).

Therefore, CTUIL informed that additional connectivity of 833 MW (4600-3767) may be considered for shifting from Bikaner-IV PS to Bikaner-III PS based on application priority & willingness.

CTUIL also informed that 5 no. of 500 MVA 400/220kV ICTs at Bikaner-III PS are being implemented. Considering margins availability (as now connectivity at 220kV level stands at 1367 MW) and optimal utilization of 400/220 kV ICTs, it will be preferred to allocate margin at 220kV level.

Accordingly, applicants as per the application priority were offered to shift their connectivity from Bikaner-IV PS to Bikaner-III PS.

List of applicants granted connectivity at Bikaner-IV PS as per the application priority and the option exercised is as below:

Sl. No.	Applicant Name	Application Number	App. Date	Connectivity Quantum(MW)	Shifting Option exercised at Bikaner-III PS
1	NTPC Renewable Energy Limited	2200000179	02.08.2023	500	Opted to shift connectivity to 220 kV (2 bays) Bikaner-III PS.
2	Deshraj Solar Energy Pvt. Ltd.	2200000184	11.08.2023	300	Opted to shift connectivity to 220 kV Bikaner-III PS
3	Solarcraft Power India 17 Pvt. Ltd.	2200000210	05.09.2023	300	Not applicable*
4	NTPC Renewable Energy Limited	2200000244	07.09.2023	150	Not applicable*
5	First Energy Private Limited	2200000221	11.09.2023	100	Opted to shift connectivity to Bikaner-III PS in sharing
6	Sunsure Solarpark Fourteen Pvt. Ltd.	2200000285	30.09.2023	300	Not applicable No further margins to shift

* After NTPC (500 MW) & Deshraj Solar(300 MW), the remaining margin for shifting was only 33 MW. However, considering the inherent margins in the system as well as unutilized bay sharing margins of Juniper(150 MW) & Proteus (33 MW) , it was considered that connectivity of total 100 MW can still be accommodated at Bikaner-III PS, but only in sharing. Accordingly, M/s Solarcraft(300 MW) & M/s NTPC(150 MW) were asked if they wish to reduce the connectivity quantum to 100 MW for shifting to Bikaner-III PS. Both Solarcraft(300 MW) & NTPC(150 MW) denied to reduce connectivity quantum. Subsequently, First energy Private Ltd(100 MW) opted to shift connectivity to Bikaner-III PS

M/s NTPC and M/s Deshraj also requested for early implementation of 220 kV line bays at Bikaner-III PS. Regarding this, CTUIL informed that even though connectivity is granted at Bikaner-III PS, the Connectivity and GNA shall be made effective only after commissioning of Bikaner-IV PS and associated system. Therefore, evacuation of power in case of early commissioning of the projects shall be based on real time margins available in the system with deemed T-GNA as per 22.4 of GNA Regulations. NTPC and Deshraj were asked to send the formal request in regard to early implementation of 220 kV bays along with the Bay schedules. Both agreed for the same.

NTPC enquired that, as 250 MW at Bikaner-III PS was available for grant with Bikaner-III system, can connectivity of 250 MW out of the 500 MW application be granted with the Bikaner-III system timeline. Regarding this CTUIL informed that under GNA regulations, there is no provision to grant single connectivity application with multiple start dates for different quantum. Therefore, for the entire connectivity quantum of 500 MW the start date shall be matching with the Bikaner-IV system. However, under 22.4 of GNA regulations, there is a provision for Connectivity grantee to seek part effectiveness and CTUIL after considering the margins in the transmission may make such part Connectivity and corresponding GNA effective, subject to availability of transmission system. Therefore, at the time of commissioning the project, M/s NTPC may request for the same and same shall be dealt as per GNA Regulations based on the margin availability in transmission system at that time.

It was also informed that M/s First Energy (100 MW) is proposed to be granted connectivity in sharing with M/s Juniper considering the existing sharing arrangement of M/s Sunsurre(200 MW) & M/s Saimaa(150 MW). However, in case M/s Saimaa agrees for sharing with M/s Juniper(150 MW), then the connectivity to M/s First Energy shall be granted in sharing with M/s Proteus(217 MW). However, M/s Saimaa and M/s Sunsurre may revert on revised sharing arrangement by 07.01.2023, if any. In case of no response, the proposed sharing arrangement of First Energy with Juniper shall be considered as final for discussion in CMETS meeting. Further sharing arrangement of M/s Sunsurre & Saimaa will also proceed as per earlier grant.

Summary of deliberations

(i). Fatehgarh-IV PS(Sec-II)

- 1) It was proposed to shift connectivity of M/s Avaada (50 MW) from Fatehgarh-IV PS(Sec-II) and to be considered for grant along with its other application of 250 MW at Barmer-I PS in next CMETS-NR meeting
- 2) It was proposed to shift connectivity of M/s Radiant Star (100 MW) from Barmer-I PS to Fatehgarh-IV PS(Sec-II) and to be considered for grant in sharing with its earlier granted connectivity of 200 MW to M/s Radiant in next CMETS-NR meeting.

(ii). Bikaner-III PS

- 1) It was proposed to shift connectivity of M/s Avaada (50 MW) from Bikaner-III PS and to be considered for grant along with its other application of 600 MW at Bikaner-IV PS in next CMETS-NR meeting
- 2) As no response has been received on review of earlier granted sharing arrangement of M/s Sunsure(200 MW) & M/s Saimaa(150 MW) by both entities, their sharing arrangement shall continue as earlier..
- 3) It was proposed to shift connectivity of M/s NTPC (500 MW), Deshraj Solar(300 MW) & First Energy(100 MW) from Bikaner-IV PS to Bikaner-III PS
- 4) M/s First Energy(100 MW) shall be granted connectivity in sharing with M/s Juniper (150 MW).
- 5) Sunsure(200 MW) & Saimaa(150 MW) as well as Proteus(217 MW) & Sunsure(50 MW) to submit the sharing arrangement to CTUIL
- 6) In view of total connectivity of 4667 MW granted at Bikaner-III PS, the substation shall be closed for further grant of connectivity with no enhancement margin at any bay

Based on above, proposed final connectivity arrangement at Bikaner-III PS is as below, same shall be take up in CMETS-NR meeting for finalisation:

S. No.	Name of Applicant	Connectivity Quantum (MW)	Bay allocated	Margin in Bay (MW)
Connectivity Granted at 400 kV				
1	MRS Build Vision Pvt. Ltd.	1000	1	NIL
2	Sunbreeze Renewable	1400	2	NIL
	Total(A)	2400		
Connectivity Granted at 220 kV				
1	TP Saurya	300	1	NIL
2a	Proteus Energy*	217	1	NIL
2b	Sunsure Solarpark RJ One	50		
3	ACME Cleantech	300	1	NIL
4a	Juniper Cosmic*	150	1	NIL
4b	First Energy Private Limited	100#		
5a	Sunsure Solarpark RJ One*	200	1	NIL
5b	Saimaa Solar	150		
6	NTPC Renewable Energy Limited	500#	2	NIL
7	Deshraj Solar Energy Pvt. Ltd.	300#	1	NIL
	Total(B)	2267		
	Total Connectivity (A+B)	4667	8	NIL

* Lead in case of sharing

With Bikaner-IV System

The meeting concluded with a vote of thanks.

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List of Participants

NRPC

Shri D.K. Meena SE(O)

CTU

Shri Ashok Pal Dy. COO (CTU)

Shri Kashish Bhambhani GM (CTU)

Shri Sandeep Kumawat DGM (CTU)

Shri R Narendra Sathvik Manager (CTU)

Shri Roushan Kumar Engineer (CTU)

Shri Madhusudan Meena Engineer (CTU)

SECI

Shri R.K.Agarwal Consultant

Shri Himanshu Gulati Sr. Engineer

Applicants/Grantees

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Shri Pavan Kumar Gupta	Juniper Green Cosmic Private Limited
Shri Vasundhara Sen	First Energy Private Limited
Shri Vishal Saxena	Enren-I Energy Private Limited
Shri Kumar Vipul	Radiant Star Solar Park Private Limited
Shri Ajay Pradhan	ACME Cleantech Solutions Pvt Limited
Shri S. Saravan Kumar	ACME Cleantech Solutions Pvt Limited
Shri Tushar Garg	TEQ Green Power XV Private Limited
Shri Ishant Choudhary	Proteus Energy Private Limited
Shri Animesh Manna	NTPC Renewable Energy Limited
Shri Shubham Roy	Deshraj Solar Energy Private Limited
Shri Kapil Pandey	Deshraj Solar Energy Private Limited
Shri Angshuman Rudra	Avaada Energy Private Limited
Shri Ashish Agarwal	Solarcraft Power India 17 Private Limited
Shri Tarunveer Singh	Sunsure Solarpark Rj One Pvt Limited
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