

Before
UTTARAKHAND ELECTRICITY REGULATORY COMMISSION
Petition No. 06 of 2024

In the Matter of:

Application seeking approval for the investment on the following projects:

- (a) Construction of 2x5 MVA, 33/11 kV Substation at Akri Barjula, Tehri (G) and its associated 33 kV line on ACSR Dog Conductor and XLPE cable from 33/11 kV S/s Nyulisain (Kirtinagar) alongwith 01 no. 33 kV Bay at 33/11 kV S/s Nuylisain.
- (b) Construction of 2x12.5 MVA, 33/11 kV Substation at Lodhiwala, Bhagwanpur (Roorkee) and its associated 33 kV line & 33 kV "Bay" at 33/11 kV S/s Dada Jalalpur Line alongwith 06 no. 11 kV O/G Feeders.

And

In the Matter of:

Uttarakhand Power Corporation Ltd.,
Victoria Cross Vijeta Gabar Singh Urja Bhawan,
Kanwali Road, Dehradun.

...Petitioner

Coram

Shri D.P. Gairola	Member (Law) /Chairman (I/c)
Shri M.L. Prasad	Member (Technical)

Date of Order: February 02, 2024

ORDER

This Order relates to the part (a) of the Petition i.e. 'Construction of 2x5 MVA, 33/11 kV Substation at Akri Barjula, Tehri (G) and its associated 33 kV line on ACSR Dog Conductor and XLPE cable from 33/11 kV S/s Nyulisain (Kirtinagar) alongwith 01 no. 33 kV Bay at 33/11 kV S/s Nuylisain' filed by Uttarakhand Power Corporation Limited (hereinafter referred to as "UPCL" or "the Petitioner" or "the licensee") seeking approval of the Commission. Further, pertaining to the part (b) of the Petition i.e. 'Construction of 2x12.5 MVA, 33/11 kV Substation at Lodhiwala, Bhagwanpur (Roorkee) and its

associated 33 kV line & 33 kV “Bay” at 33/11 kV S/s Dada Jalalpur Line alongwith 06 no. 11 kV O/G Feeders’ shall be dealt through a separate Order.

Background

2. The Petitioner vide its letter No. 2868/Dir (Project)/UPCL/UERC (C-4) dated 22.11.2023 submitted its Petition for investment approval of two projects mentioned as (a) & (b) above under the provisions of the Clause 11 of Distribution and Retail Supply Licence and Clause 40 of UERC (Conduct of Business) Regulations, 2014 read with relevant provision of the Electricity Act, 2003, and the Rules and Regulations made thereunder.
3. The Petitioner in its Petition under the facts of the case has submitted that:
 - (1) To ensure reliable power supply, improved voltage profile and to meet future load growth, the Petitioner is proposing the construction of 02 No. 33/11 kV S/s & their associated 45.50 km. 33 kV & 26.00 km. 11 kV lines.
 - (2) The estimated cost of the project is Rs. 36.66 Cr., which shall be met through loan (70%) from REC and Equity (30%) from State Government.
 - (3) The land for most of the substations is already acquired and for remaining substations, shall be made available by the respective Electricity Distribution Division of UPCL. The project is proposed to be implemented partially on turnkey basis and the duration of the project is 02 years. The details of substations and lines are as follows:-

“

<i>Abstract of details of 02 no. 33/11 kV S/s alongwith their associated 33 kV Line</i>								
S. N.	Name of the Project	District	Fund Resources	BoD Approval	Capacity	Length of 33 kV Line (km.)	Length of 11 kV Feeders (Km.)	Total Cost (Rs. in Lakh)
1	Construction of 2x5 MVA, 33/11 kV S/s at Akri-Barjula, Tehri (G) and its associated (16.00 km.) 33 kV line on ACSR Dog Conductor and XLPE cable from 33/11 kV S/s Kirtinagar, Nyulisain	Tehri (G)	SASCI FY 2023-24	Approved in 113 th BoD	2x5	16.00	0.00	1083.00

<i>Abstract of details of 02 no. 33/11 kV S/s alongwith their associated 33 kV Line</i>								
S. N.	Name of the Project	District	Fund Resources	BoD Approval	Capacity	Length of 33 kV Line (km.)	Length of 11 kV Feeders (Km.)	Total Cost (Rs. in Lakh)
2	Construction of new 2x12.5 MVA, 33/11 kV S/s at Lodhiwala (Bhagwanpur) and its associated 33 kV lines and 06 no. 11 kV feeders	Haridwar	70% Loan from financial institutions & 30% State Equity		2x12.5	29.50	26.00	2583.00
Total					-	45.50	26.00	3666.00

”

(4) The Petitioner has provided Detailed Project Report (DPR) alongwith its Petition showing examination of an economic technical system, outline of works to be undertaken, salient features and particulars and cost benefit analysis. The Petitioner has submitted that the proposed works shall not have any adverse environmental effect.

4. The Petitioner has also enclosed copy of resolution passed by the Board of Directors in its 113th BoD meeting held on 13.10.2023 in support of its aforesaid Petition. Since this Order pertaining to the construction of 2x5 MVA 33/11 kV S/s at Akri-Barjula, the relevant extract of resolution passed by BoD pertaining to the financing of the said project is detailed below: -

”

ITEM NO. 113.08: *Construction of 2x5 MVA, 33/11 kV S/s at Akri-Barjula, Tehri (G) and its associated (16.00 km.) 33 kV line on ACSR Dog Conductor and XLPE cable from 33/11 kV S/s Kirtinagar, Nyulisain.*

RESOLVED THAT *in view of deliberations in the meeting, approval of the Board of Directors be and is hereby accorded for construction of 01 no. new 33/11 kV sub-station with 2x5 MVA capacity along with its associated (16.00 km.) 33 kV line on ACSR Dog Conductor and XLPE cable with an estimated cost of approximately Rs. 1083.00 Lakh with a variation of +20% in the total estimated cost subject to the investment approval from Hon’ble UERC:*

Sl. No.	Name of 33/11 kV Sub-station	Capacity (MVA)	Length (km.)	Estimated Cost (Rs. in Lakh)
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1	Akri-Barjula, Kirtinagar, Srinagar (Pauri Garhwal)	2x5	-	1083.38
2	Associated new 33 kV line from 33/11 kV S/s, Nyulisain (Kirtinagar)	-	16.00	
TOTAL		10	16.00	1083.38

‘RESOLVED FURTHER THAT approval of the Board be and is hereby also accorded that:

- a) Rs. 7.58 Cr. shall be met under the scheme for Special Assistance to States for Capital Investment SASCI of Government of India as interest free loan repayable in next 10 years in equal trenches.*
- b) Rs. 0.70 Cr. shall be met from State Government as equity under the scheme for Scheme for Special Assistance to State for Capital Investment SASCI of Government of India.*
- c) Rs. 2.55 Cr. shall be met either by state Government or from UPCL through its own funds.’*

”

5. The Petitioner has enclosed a document pertaining to ‘Scheme for Special Assistance to State for Capital Investment (SASCI)’ vide which an approval of ‘Construction of 33 kV S/s at Akri, Barjula’ amounting to Rs. 10.36 Cr. has been approved for a loan of Rs. 8.28 Cr. through the SASCI scheme.
6. On examination of the Petition & DPR certain deficiencies/infirmities were identified and accordingly, the Commission vide its letter No. 1005 dated 29.12.2023 directed the Petitioner to submit/furnish its compliance on the following latest by **15.01.2024**: -

“

Construction of 2x5 MVA, 33/11 kV S/s at Akri-Barjula, Tehri (G) and its associated (16.00 km.) 33 kV line on ACSR Dog Conductor and XLPE cable from 33/11 kV S/s Kirtinagar, Nyulisain.

1. UPCL is required to furnish the soft copy in MS excel format of item-wise cost breakup for ‘Construction of SGR building’ and ‘Land development & other Civil works’ pertaining to the proposal for ‘Construction of 2x5 MVA, 33/11 kV S/s at Akri-Barjula, Tehri (G) and its associated (16.00 km.) 33 kV line on ACSR Dog Conductor and XLPE cable from 33/11 kV S/s Kirtinagar, Nyulisain’. Further, UPCL is required to furnish the reasons for high expenditure on account of ‘Land development & other Civil works’.
2. It is observed that cost of several items mentioned in the cost breakup of expenditures are not matching with the latest ‘Weighted average rates of stock material’ for March, 2023 which is available in UPCL’s website. UPCL is required

to clarify in this regard and furnish reference of each 'Centralized Material' items used in its estimates.

3. *UPCL is required to furnish the soft copy in MS excel format for the expected saving in line losses in the payback period calculations for proposed 33/11 kV S/s at Akri-Barjula, Tehri (G). Further, it is observed that UPCL has not accounted for any AT&C losses in its Cost Benefit Analysis (CBA) calculation.*

Furthermore, UPCL has considered that depreciation is payable to it and accordingly while calculating cash profit in column M has added the same and computed the payback period, while the depreciation should be adjusted for repayment of loan as the special assistance scheme to State for capital investment under which the instant proposal has been filed is not a grant rather a loan at 0% which is liable to be returned to the exchequer i.e. the government. UPCL is required to clarify and resubmit the revised CBA calculation.

4. *UPCL is required to furnish the copy of Terms & Conditions of loan under special assistance scheme to State for capital investment.*
5. *UPCL is required to furnish the reasons for not approaching the Commission for prior investment approval for 'Construction of 33 kV line & Bay from 132/33 kV S/s Srinagar to Sumari for giving 5 MVA load connection to NIT Sumari' which is approved under special assistance to State for capital investment for UPCL amounting to Rs. 8.24 Cr.*
6. *UPCL is required to furnish Pole/Section-wise drawing for the proposed 16 Kms. line on ACSR Dog Conductor & XLPE cable from 33/11 kV S/s Kirtinagar, Nyulisain to proposed 33/11 kV S/s.*
7. *UPCL is required to confirm regarding any forest clearances/railway crossing approval requirement for the proposed 33/11 kV S/s at Kirtinagar, Nyulisain.*
8. *On examination of the line chart, it is observed that 33/11 kV S/s Kirtinagar (2x5 MVA), 33/11 kV S/s Bagwaan and proposed 33/11 kV S/s Akri-Barjula (2x5 MVA) are being/proposed to be fed through single run ACSR Dog conductor line emanating from 220/132/33 kV S/s Srinagar (G). UPCL is required to clarify regarding the same from power reliability perspective of the aforesaid 33/11 kV S/s."*

7. *In response to the deficiencies, UPCL vide its letter dated 12.01.2024 submitted its compliance and furnished the following:*

"

1. *It is pertinent to mention that the cost of civil works (land development) is more as the quantum of work involved includes major work for land development for creation of terrace for construction of control room building, switchyard and approach road. In the DFC dated: 28-11-2023, the cost has also been optimized and accordingly the Government Order was issued by GoUK dated: 19-12-2023. The project outlay of Rs. 10.83 Cr. has now been revised to Rs. 9.56 Cr.*

The soft copy in MS excel format of item-wise cost breakup for “Construction of SGR Building” and “Land development & other civil works” pertaining to the proposal for “Construction of 2x5 MVA, 33/11 kV S/s at Akri-Barjula, Tehri (G) is being sent via email.

2. *The estimate has been framed according to rates mentioned in SAP module of August, 2023. Therefore, they are not matching with the SIR of March 2023. The copy of Weighted Average Rates of stock material" for August, 2023 is being annexed as Annexure-A.*
3. *Since, the commercial aspect shall remain the same in case the consumer are fed from the existing or new proposed system, therefore commercial losses have not been taken into account.*

Furthermore, while calculating payback period, depreciation has been added back in net profit as the depreciation is a non cash expenses and calculation as per column M has been done accordingly. Payback period is calculated to find out in how much time total project cost is to be recovered.

4. *The Government Order dated: 19.12.2023 regarding the Terms & Conditions of loan under special assistance scheme to State for capital investment is being annexed...*
5. *It is to bring to the kind notice of Hon'ble Commission that a Review Meeting of HPC was held on dated: 05-09-2023. The work related to “Construction of 33 kV line & Bay from 132/33 kV S/s Srinagar to Sumari for giving 5 MVA load connection to NIT Sumari” has been directed to exclude from SASCI Scheme by HPC.*
6. *The Pole/Section-wise drawing for the proposed 16 Kms. line on ACSR Dog Conductor & XLPE cable from 33/ 11 kV S/s Kirtinagar, Nyulisain to proposed 33/ 11 kV S/s is being annexed...*
7. *It is to bring to kind notice of Hon'ble Commission that as of now no railway crossing is involved and no issue of forest clearance is known to be existing as 11 kV line is already available on the same route.*
8. *33/11 kV S/s Bagwaan (2x5 MVA) and 33/11 kV Substation Kirtinagar are being fed through to separate 33 kV feeders on ACSR Dog Conductor from 220/132/33 kV S/s Srinagar (G)...*

33/11 kV S/s Jamnikhal and 33/ 11 kV S/s Devprayag are connected by 33 kV feeder on ACSR Dog Conductor which will serve the purpose of N-1 contingency.”

8. UPCL in its submission dated 12.01.2024 has enclosed a letter providing details of Terms & Conditions of SASCI scheme, the extract of the same are mentioned below:-

“ ...

वित्त व्यय मंत्रालय भारत सरकार के पत्र संख्या 44(1)PF-S/2023-24(CAPEX)- Uttarakhand दिनांक 29.09.2023 द्वारा भारत सरकार को प्रेषित की परियोजनाओं के क्रमांक-18 पर विकास खण्ड

कीर्तिनगर पट्टी अकरी-बारजूला में प्रस्तावित 33/11 के0वी0 उपसंस्थान के निर्माण कार्य हेतु रू0 955.73 लाख की प्रशासकीय एवं वित्तीय स्वीकृति प्रदान करते हुए भारत सरकार द्वारा Scheme for Special Assistance to States for Capital Investment (SASCI) 2023-24 योजनान्तर्गत अवमुक्त की गयी धनराशि के सापेक्ष रू0 05.52 करोड (रू0 पाँच करोड बावन लाख मात्र) को व्यय किये जाने की निम्न लिखित शर्तों/प्रतिबन्धों के अधीन श्री राज्यपाल महोदय सहर्ष स्वीकृति प्रदान करते हैं:-

1. उपरोक्त धनराशि विषयगत कार्य हेतु Scheme for Special Assistance to States for Capital Investment 2023-24 Part-I के अन्तर्गत भारत सरकार द्वारा अनुमोदित ऋण के सापेक्ष अवमुक्त 2/3 प्रथम किश्त के रूप में स्वीकृत की जा रही है।
2. उक्त ऋण ब्याज मुक्त होगा, जिस परियोजना हेतु ऋण की धनराशि अवमुक्त की जा रही है, उसके पूर्ण होने की तिथि अथवा 03 वर्ष, जो भी पहले हो, की अवधि Moratorium Period होगा।
3. Moratorium Period समाप्त होने की तिथि से 10 वर्ष की अवधि में निगम द्वारा ऋण का 10 समान किश्तों में Repayment किया जाएगा।
4. प्रत्येक वित्तीय वर्ष में कम से कम एक किश्त राजकोष में जमा किया जाना आवश्यक होगा।
5. यदि अंश-पूँजी अथवा ऋण के अनुपात के संबंध में भविष्य में कोई परिवर्तन किया जाता है, तो तत्समय तदनुसार ही संशोधन किया जा सकता है।
6. उपाकालि लिमिटेड को द्वारा उक्तानुसार स्वीकृत/अवमुक्त की जा रही धनराशि के आहरण/व्यय हेतु नियोजन विभाग के शासनादेश दिनांक 10.03.2023 में उल्लिखित शर्तों का अनुपालन सुनिश्चित करते हुए स्वीकृत धनराशि दिनांक 31.03.2024 तक अनिवार्य रूप से उपयोग कर जी0एफ0आर0 2017 डी0एस0 फार्म-12 बी प्रारूप पर उपयोगिता प्रमाण पत्र नियोजन एवं वित्त विभाग को उपलब्ध कराते हुए शासन को अवगत कराया जायेगा।
7. उपरोक्त धनराशि विषयगत कार्य हेतु Scheme for Special Assistance to States for Capital Investment (SASCI) 2023 & 24 Part-1 के अन्तर्गत भारत सरकार द्वारा अनुमोदित ऋण क्रमशः रू0 10.36 करोड के सापेक्ष अवमुक्त धनराशि रू0 5.52 करोड प्रथम किश्त के रूप में स्वीकृत की जा रही है।
8. उक्त स्वीकृत धनराशि को उपरोक्त कार्य के अतिरिक्त किसी अन्य कार्य में व्यय नहीं किया जायेगा तथा अतिरिक्त धनराशि की स्वीकृति की प्रत्याशा में कोई अन्य व्यय नहीं किया जायेगा एवं समय-समय पर निर्गत वित्तीय एवं मित्तव्ययता सम्बन्धी नियमों एवं दिशा-निर्देशों का कड़ाई से अनुपालन सुनिश्चित किया जायेगा।
9. स्वीकृत धनराशि का आहरण प्रबन्ध निदेशक, द्वारा एक सप्ताह के भीतर अवमुक्त की जायेगी। यह भी सुनिश्चित किया जाये कि धनराशि अनावश्यक रूप से बैंकों में पार्किंग के रूप में न रखी जाय।
10. कार्य की आगणन में सम्मिलित की जा रही GST देयता में प्राविधानित मदों की धनराशि पर वास्तविक एवं नियमानुसार व्यय सुनिश्चित किया जाए उक्त मद में व्यय की जाने वाली धनराशि पर भिन्नता हेतु विभाग/कार्यदायी संस्था स्वयं जिम्मेदार रहेंगे।
11. मदवार विश्लेषण विभाग के अधीक्षण अभियंता द्वारा स्वीकृत अनुमोदित दरों के आधार तथा जी दरें शेड्यूल ऑफ रेट्स में स्वीकृत नहीं है, अथवा बाजार भाव से ली गयी हो की स्वीकृति नियमानुसार अधीक्षण अभियंता से अनुमोदन करना आवश्यक होगा।

12. N.S.I मदों कार्य हेतु शा0सं0-50/XXVII(7)/2012 दिनांक 12.04.2012ए 152/887/मार्गसि0/रा0यो0आ0/2021, दिनांक: 04.02.2021 एवं 103/XXV132/2007 टी0सी0-1 दिनांक 21 जुलाई 2022 का अनुपालन सुनिश्चित करते हुये उत्तराखण्ड अधिप्राप्ति नियमावली (संशोधित), 2017 के अनुसार, कार्यवाही की जाये।
13. कार्य पर मदवार उतना ही व्यय किया जाये जितनी मदवार धनराशि स्वीकृत की गयी है। स्वीकृत धनराशि से अधिक व्यय कदापि न किया जाए।
14. विस्तृत आंगणन में प्राविधानित डिजायन एवं मात्राओं हेतु सम्बन्धित कार्यदायी संस्था पूर्ण रूप से उत्तरदायी होंगे।
15. वित्त विभाग, उत्तराखण्ड शासन के शासनादेश संख्या 475/XXVII(7)/2008 दिनांक 15.12.2008 के अनुसार निर्धारित प्रपत्र पर कार्यदायी संस्था से एम0ओ0यू0 अवश्य हस्ताक्षरित किया जाना सुनिश्चित किया जाय। कार्य के निष्पादन हेतु एक समय सारिणी निर्धारित की जायेगी तथा कार्य को समयबद्ध रूप से पूर्ण किया जायेगा। विलम्ब अथवा अन्य किसी भी कारणों से आगणन का पुनरीक्षण अनुमन्य नहीं किया जायेगा। ”
9. On receipt of the aforesaid reply from the Petitioner dated 12.01.2024 w.r.t. ‘Construction of 2x5 MVA, 33/11 kV S/s at Akri-Barjula, Tehri (G) and its associated (16.00 km.) 33 kV line on ACSR Dog Conductor and XLPE cable from 33/11 kV S/s Kirtinagar, Nyulisain’, the Commission decided to admit the instant Petition of the Petitioner.
10. The Petitioner vide its e-mail dated 01.02.2024 furnished the financing details w.r.t. the revised cost of Rs. 09.56 Cr. as follows: -

“Proposed revised financing for construction of 33/11 kV S/s at Akri-Barjula along with its associated 33 kV line and 33 kV Bay in view of the revised project outlay sanctioned vide Govt. of Uttarakhand G. O. no. 1169/I(2)/2023-06(3)/01/2023 dated 19-12-2023

Total Project Outlay	:	Rs. 9.56 Cr.
Loan to be taken under SASCI	:	Rs. 6.69 Cr.
Equity to be taken under SASCI	:	Rs. 1.59 cr.
Equity by Govt. of Uttarakhand/Self funding by UPCL through REC	:	Rs. 1.28 Cr.

The above financial model shall be subject to the approval from the Central/State Government.”

Commission’s Observations, Views & Directions: -

11. On examination of the Petition and subsequent submissions of the Petitioner, following has been observed: -

2x5 MVA, 33/11 kV Substation Akri-Barjula, Tehri (G): -

- (1) The Petitioner in its DPR has mentioned that presently the power supply to Village-Tikoli, Amoli, Jakhand, Maikhandi, Kandikhal, Silod, Pidhoi, Dholangi, Tokhandi, Lusi, Nyuli, Semi Semla, Arkhodi Dang, Khola, Mulana, Rani Hat Gorsali, Bairagna, Akri Barjula etc is being fed through approx 215 km. (including all branches) long 11 kV feeder Kandikhal emanating from 33/11 kV Substation Kirtinagar. As this existing 11 kV feeder is very long and cater supply to consumers of more than 100 villages, hence, problem of low voltage (about 8.5 kV to 9.9 kV) is common in the connected region. Therefore, in order to improve reliability and quality of power supply and to cater the increase in demand in nearby area, the construction of a new 33/11 kV Substation Akri Barjula alongwith its associated 33 kV lines and 33 kV Bay at 33/11 kV Substation Kirtinagar are proposed.
- (2) Further, the Petitioner under Justification in its DPR has mentioned that the existing 11 kV feeder passes through forest area in tough and remote hilly terrain. Fault arising on a feeder branch trips the entire Kandikhal feeder thereby affecting more than 100 villages in the entire valley. In order to restore the power supply the entire 11 kV feeder of 215 km. length is to be patrolled and all branches have to be individually inspected for restoration of supply, which is extremely time-consuming and involves the entire line staff. Further, the consumers face problem of low voltage (about 8.5 kV to 9.9 kV at 11 kV), fluctuations, frequent outages and poor power quality is rampant. As a result of this, approximately 4,500 consumers are affected due to inadequate power supply.

With the construction of proposed substation, SAIFI/SAIDI & MAIFI as mandated in the regulations would also considerably improve.

- (3) Besides above, the Petitioner has mentioned that development of a major Railway Station at village Maletha is in progress, which would be the prime station for Rishikesh-Karnprayag Railway Line. The new substation would assist in reducing the load of Bagwan & Kirtinagar substations in the future.

Considering the development of the area, pumping schemes are also proposed in the region. The proposed substation would provide multiple options to reliably feed aforesaid critical loads in the future. It would provide a more reliable source of electricity, reducing downtime and disruptions caused by line faults, weather-related issues, or other unforeseen events and would strengthen the electrical infrastructure for alternate supply options during natural calamities/disasters. Consumer services are expected to improve with the construction of the proposed substation and would facilitate revenue realization and ease of bill deposition and lodging of complaints by the consumers. Therefore, in view of maintaining qualitative and quantitative power supply the construction of proposed substation would be of prime importance. The construction of the substation would generate regional employment and stimulate economic activity in the area as quality power supply is the backbone of development & growth.

- (4) With regard to Project outlay from the submission of the Petitioner dated 12.01.2024, it has been observed that now the Project outlay has been revised to Rs. 9.56 Cr. from Rs. 10.83 Cr. and the same has been confirmed from Terms & Conditions of SASCI scheme detailed at Para 8 above which states that administrative & financial approval has been accorded for Rs. 9.56 Cr. for the proposed 33/11 kV S/s Akri-Barjula, Tehri (Garhwal).
- (5) With regard to the cost benefit analysis, the Petitioner has furnished its revised cost benefit analysis considering load growth as 5% vide its submission dated 12.01.2024 stating that the payback period for the proposed 33/11 kV S/s Akri-Barjula, Kirtinagar would be 12 years & 08 months. In this context, it has been observed that while calculating the total revenue generated by UPCL at Column G, the Petitioner has assumed 'Nil' losses in its network. Thus, after considering prudent value of losses the said payback period would further increase. However, as proposed 33/11 kV S/s Akri-Barjula is a power infrastructure developmental project which would help in improving the quality & reliability of power supply to the residents of villages in the region and it is anticipated that the load growth

would substantially increase with the upcoming Railway Station in the region, this would certainly help in making the proposed project more viable.

- (6) With regard to the cost considered for the estimation, it is observed that while preparing DPR/estimates, the Petitioner has not mentioned the reference used for the estimates against each item. The Commission is of the view that the Petitioner should indicate the information of basis of unit rates of the centralized materials used in its estimates for capital investment in a separate column with details of S. No. & reference month of weighted average rates of stock material.
- (7) With regard to the reliability aspect of the proposed 33/11 kV S/s Akri-Barjula (2x5 MVA), the Petitioner in its submission dated 12.01.2024 has submitted the revised line chart and submitted that 33/11 kV S/s Jamnikhal & 33/11 kV S/s Devprayag are connected by 33 kV feeder through ACSR Dog conductor which will serve the purpose of 'N-1' contingency.

It is prudent to highlight that Regulation 3.6 (4) of UERC (Distribution Code) Regulations, 2018 provides that: -

"(4) In every Sub-Station of capacity 10 MVA and above there shall be a provision for obtaining alternate 33 kV supply to the Sub-Station in case of a failure in the incoming supply."

In this regard, the Commission is of the view that the responsibility of long-term planning of distribution system lies with the distribution licensee. However, in the instant matter from the revised line chart submitted by the Petitioner, it is observed that neither the 'N-1' line contingency is truly available for 33/11 kV S/s Kirtinagar nor it is available for the proposed 33/11 kV S/s Akri-Barjula. The Petitioner should strengthen its 33 kV line network as it is expected that in near future the load of the Kirtinagar and around areas would exponentially increase with coming-up of proposed Railway Station at Maletha which is in close proximity to the proposed 33/11 kV S/s Akri-Barjula.

12. Considering the expected improvement in the quality & reliability of power supply to the residents of villages namely Tikoli, Amoli, Jakhand, Maikhandi, Kandikhal, Silod, Pidhoi, Dholangi, Tokhandi, Lusi, Nyuli, Semi Semla, Arkhodi Dang, Khola, Mulana, Rani Hat Gorsali, Bairagna, Akri Barjula etc which are at present being fed through approx 215 km. (including all branches) long 11 kV feeder Kandikhal emanating from 33/11 kV Substation Kirtinagar and prospective commercial activities expected after the operationalization of upcoming Railway Station at Maletha, the Commission hereby grants in-principle approval for the proposed Construction of 2x5 MVA, 33/11 kV Substation at Akri Barjula, Tehri (G) and its associated 33 kV line on ACSR Dog Conductor and XLPE cable from 33/11 kV S/s Nyulisain (Kirtinagar) alongwith 01 no. 33 kV Bay at 33/11 kV S/s Nuylisain subject to the fulfillment of the conditions mentioned below:

- (1) The Petitioner is directed to obtain the prices through competitive bidding for the works allowed by the Commission under the prevailing Rules & Regulations.
- (2) All the loan conditions as may be laid down by the funding agency under Scheme for Special Assistance to States for Capital Investment (SASCI) 2023-24 (Part-1) in their detailed sanction letter are strictly complied with.
- (3) The Commission may verify/check the proposed works to be executed by the Petitioner at any point of time during/post execution of the works from the perspective of Quality, Optimum utilization of resources, Benefits accrued from the proposed investments etc.
- (4) The Petitioner should comply to the following CEA and UERC Regulations and amendments thereof while Construction and Operation & Maintenance of the lines & S/s and should ensure the compliance of relevant standards and the Project should be executed with due diligence so that minimal incidents of break downs/fault occurrences/ hindrances are faced during operation & maintenance: -
 - (a) Central Electricity Authority (Safety requirements for construction, operation and maintenance of electrical plants and electric lines) Regulations, 2011.

- (b) Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022.
 - (c) Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2023.
 - (d) UERC (Distribution Code) Regulations, 2018
- (5) The Petitioner shall, within one month of the Order, submit letter from the State Government or any such documentary evidence in support of its claim for equity funding (if any) agreed by the State Government or any other source in respect of the proposed schemes.
 - (6) After completion of the aforesaid schemes, the Petitioner shall submit the completed cost and financing of the schemes.
 - (7) The cost of servicing the project cost shall be allowed in the Annual Revenue Requirement of the Petitioner after the assets are capitalized and subject to prudence check of cost incurred.

Ordered accordingly.

(M.L. Prasad)
Member (Technical)

(D.P. Gairola)
Member (Law)