

**Before**  
**UTTARAKHAND ELECTRICITY REGULATORY COMMISSION**  
**Petition No. 12 of 2023**

**In the Matter of:**

Investment approval for DPR for 400/220 kV (2x315 MVA) GIS Substation Landhora and its associated lines for inclusion in the Transmission Project of PTCUL Transmission Plan under UTSDIP Scheme under ADB Funding in place of 400/220 kV AIS Substation Landhora and its associated lines.

**AND**

**In the Matter of:**

Power Transmission Corporation of Uttarakhand Limited (PTCUL).

**...Petitioner**

**CORAM**

**Shri D.P. Gairola, Member (Law)/Chairman (I/C)**

**Shri M. K. Jain, Member (Technical)**

**Date of Order: April 12, 2023**

**ORDER**

This Order relates to the Petition filed by Power Transmission Corporation of Uttarakhand Ltd. (hereinafter referred to as “PTCUL” or “the Petitioner”) vide letter Nos. 353/MD/PTCUL/UERC dated 01.02.2023 seeking approval of the Commission for the revised DPR for 400/220 kV (2x315 MVA) GIS Substation Landhora and its associated lines in place of 400/220 kV AIS Substation Landhora and its associated Lines under Para 11 of Transmission Licence. [Licence No. 1 of 2003]

2. The current Petition of the Petitioner includes a similar scope of work pertaining to the construction of 400/220 kV S/s at Landhora and its associated lines for which the investment approval has already been accorded earlier by the Commission. The details of the approval is as shown in the Table below:

**Table:1**

<b>Name of the Project/Scheme</b>	<b>Date of approval by the Commission</b>	<b>Project cost including IDC as per earlier DPR (Rs. Crore)</b>	<b>Cost approved by the Commission including IDC (Rs. Crore)</b>
AIS Substation Landhora and Construction of LILO of 400 kV Kashipur-Puhana Line at 400 kV Substation Landhora and Construction of LILO of 220 kV Manglore-Nara line at proposed 400/220/132 kV Substation Landhora.	26.04.2022	235.49	204.54

3. The Petitioner submitted that in the current Petition, the initially proposed AIS S/s at Landhora is replaced by the GIS S/s at Landhora giving reasons for the same which are reiterated below:

“ ...

- i *The cost of Construction of 400/220 kV AIS Substation, Landhora amounting to Rs. 151.67 Cr. (based on PTCUL SoR 2021-22) is included in the UTSDIP scheme PPR ID: 11283 (Uttarakhand Transmission Strengthening & Distribution Improvement programme) under ADB Funding.*
- ii *400/220 kV Substation , Landhora is proposed to strengthen the 400 kV and 220 kV Transmission network and to meet the growing domestic and industrial load demand in Roorkee and nearby areas of Haridwar District.*
- iii *The land area required for the construction of 400/220 kV AIS substation switchyard along with control room, store room, administrative building, and residential building etc. is approx. 8.0 hectares, but at present only 3.854 hectares of land is in PTCUL possession.*
- iv *The status of land was informed to Asian Development Bank (ADB) Consultation Mission during the visit at PTCUL (21-26 Nov. 2022).*

- v As per the draft AIDE MEMOIRE forwarded by ADB Mission, point No. 10 “The bidding for the transmission line packages will be commenced in January 2023 to ensure the integration between the packages is well aligned. The bidding for the remaining packages will commence after the acquisition of land required for the two substations (Landhora and Serverkhera). The mission was further briefed that these two substations may be converted from air insulated substations (AIS) to gas insulated substations (GIS) if the land required for building AIS cannot be acquired by 30 January 2023.”
- vi As per the finding of joint visit carried out to the project site by Project Implementation, Roorkee, Engineering-Substation Design, Engineering-Line Design and Civil Project wing, the construction of 400/220 kV GIS Substation at Landhora on the available land is possible.
- vii As per the BOQ and other inputs for construction of 400/220 kV GIS Substation at Landhora, the DPR cost for construction of 400/220 kV (2x315MVA) GIS Substation, Landhora and associated Lines comes out to Rs.237.31 Cr. considering new funding pattern approved by HPC vide letter no. 1374/1(2)/2022/05-12/2004 dated 25/10/2022 for UTSDIP scheme PPR ID: 11283 and PTCUL SOR for FY 2022-23.”
4. The Petitioner submitted that the revised estimates for GIS S/s and its associated lines have been prepared taking PTCUL SoR for FY 2022-23. The revised cost of GIS S/s alongwith its associated lines (including price contingency @6.8%, contingency @3%, project overheads @ 5%, cost of land and IDC) is as given below:

**Table:2**

<b>Sl. No.</b>	<b>Particulars</b>	<b>Cost (Rs. Crore)</b>
1	400/220 kV GIS S/s Landhora	145.99
2	LILO of 400 kV Kashipur-Puhana Line at 400 kV S/s Landhora	31.22
3	LILO of 220 kV Manglore-Nara Line at 400 kV S/s Landhora	60.09
	<b>Total</b>	<b>237.31</b>

### **Commission's Views**

5. In light of the submission of the revised DPR through the aforesaid Petition, Commission observes that due to change of AIS S/s to GIS S/s and consideration of rates as per the SoR of 2022-23 in place of 2021-22 there is a minor revision in the overall Project Cost as per the earlier DPR of Rs. 235.49 Crore submitted by the Petitioner. The Commission hereby grants in-principle approval to the revised DPR and allows the Petitioner to go ahead with construction of 400/220 kV GIS S/s at Landhora and its associated LILO lines and reiterates the following conditions laid down in the earlier Order while granting investment approval for the aforesaid project which reads as:

- “(i) After completion of the projects the Petitioners shall submit the completed cost and financing of the same.*
- (ii) The cost of servicing 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.”*

6. The Commission directs PTCUL to comply with the above conditions alongwith other conditions laid down in the earlier Order dated 26.04.2022 and take necessary action to expeditiously complete the approved work.

Ordered accordingly.

(M.K. Jain)  
Member (Technical)

(D.P. Gairola)  
Member (Law)/Chairman (I/C)