



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत प्रणाली परियोजना प्रबोधन प्रभाग

Power System Project Monitoring Division

के वि प्रा / पीएस / पीएसपीएम / 07/07/2018 /

CEA /PS/PSPM/07/07/2018/

दिनांक:12.10.2018

Dated: 12.10.2018

सेवा में /To,

(संलग्न सूची के अनुसार) / (As per attached list)

विषय: पीएमडीपी -2015 के तहत कवर इंटर स्टेट ट्रांसमिशन सिस्टम के लिए जेकेपीडीडी द्वारा प्रस्तावित योजना में परिवर्तन को अंतिम रूप देने के लिए दिनांक 10/09/2018 को बुलाई गयी बैठक का कार्यवृत्त

Subject: Minutes of meeting held on 10/09/18 to finalize change in scheme proposed by JKPDD for intra state transmission system and other issues covered under PMDP-2015

महोदय,

पीएमडीपी -2015 के तहत कवर इंटर स्टेट ट्रांसमिशन सिस्टम के लिए जेकेपीडीडी द्वारा प्रस्तावित योजना में परिवर्तन को अंतिम रूप देने के लिए दिनांक 10/09/2018 को कार्यवृत्त मुख्य अभियंता (विद्युत प्रणाली परियोजना प्रबोधन प्रभाग) , के वि प्रा द्वारा बुलाई गयी बैठक का कार्यवृत्त संलग्न है ।

संलग्नक: यथोपरि।

सादर / Yours Sincerely,

(संजय जैन) / (Sanjay Jain)

निदेशक/ Director

जानकारी के लिए अग्रेषित प्रतिलिपि/ Copy forwarded for information to:

1. संयुक्त सचिव (ट्रांस), विद्युत मंत्रालय, श्रम शक्ति भवन, रफी मार्ग, नई दिल्ली-110001
2. सदस्य (विद्युत प्रणाली), केविप्रा के प्रधान निजी सचिव

**List of Addressees:**

<b>S. No</b>	<b>Name and designation</b>	<b>Address</b>	<b>Telephone/Fax/email</b>
1	ED (BDD), PGCIL Saudamini, Plot No.2, Sector 29, Near IFFCO Chowk, Gurgaon (Haryana) - 122001	Ph: 0124- 2571800/2571900 Fax:01242571990/ 2571922/2571760/09810530 571	Sh. Supratim Das (GM)7042499408 tcsarmah@powergridindia.com supratimdas@powergridindia.com ajaiku@hotmail.com
2	Er. Mohammad Muzaffar Matoo Development Commissioner, Power Srinagar, Kashmir	Power Development Department Exhibition Road, Srinagar	Tel: 0194-2491340 (M) 09419001131 dcpjkpdd@gmail.com
3	Chief Engineer (PSP & A – I), CEA	PSPA-I Division, Central Electricity Authority, Sewa Bhawan, R K Puram, New Delhi-110066	Ph: 011-2673 2305 ravindergupta_cea@nic.in ravindergupta_cea@rediffmail.com awd.cea@gmail.com awdesh@nic.in
4	COO (CTU-Planning) Powergrid Corporation of India Ltd.,	Powergrid Corporation of India Ltd., Saudamini , Plot No.2, Sector-29, Gurgaon, Haryana-122001	ashok@powergridindia.com ajaiku@hotmail.com
5	RECTPCL Chief Executive Officer, REC Transmission Projects Company Ltd	RECTPCL 12-21, Upper Ground Floor, Antriksh Bhawan, 22-K.G. Marg, New Delhi-110001	Tel: 011-41020101, 011-47964796, Fax: 011-47964747, M: 9910027256 <a href="mailto:bhupender_g@yahoo.com">bhupender_g@yahoo.com</a> <a href="mailto:Bhupender.g@gmail.com">Bhupender.g@gmail.com</a>
6	Shri Avinash Dubey Chief Engineer, S&O Wing, Jammu	Power Development Department System & Operation Wing Jammu, Gladni Complex, Narwal, Jammu	sojpd@gmail.com
7	Shri Sudhir Gupta Superintending Engineer, S&O Wing, Jammu	Power Development Department System & Operation Wing Jammu, Gladni Complex, Narwal, Jammu	09419181570 sesocr2@gmail.com

**Minutes of meeting taken by Chief Engineer (PSPM), CEA New Delhi, on 10.09.2018 regarding (i) 220/33kV Chowadhi (New) Substation (ii) 220/66kV Samba (New) Substation (iii) 220/66kV Kathua-II (Ghatti) (New) Substation and associated Transmission Lines for strengthening of Intra-State Transmission Works in J&K covered under PMDP-2015**

List of participants is enclosed at Annexure-I.

1. Chief Engineer (PSPM), CEA welcomed all the participants and informed that he had taken a meeting on 07.08.2018 to review the progress of transmission works covered under PMDP-2015 wherein JKPDD had informed that some of the 220kV D/C line in Jammu region are presently running at full load and LILOing of these lines at Chowadi, Nagrota and Samba substations as proposed in PMDP 2015 scheme may cause further overloading of these transmission lines and requested that utilisation/optimization of some of the transmission works is needed to be studied further. Accordingly this meeting has been called to discuss the issue and firm up modifications/changes if any.
  
2. CE(PSP&A-I), CEA informed that JKPDD vide their letter no. CA/S&O/4932-39 dated 13.08.2018 had proposed modifications in PMDP 2015 scheme in Jammu Region. The changes proposed as well as earlier approved scope of works is given below:

<b>Sr. No.</b>	<b>Original Scope</b>	<b>Modifications suggested by PDD in letter dated 13.08.2018</b>
1)	<b>Transmission Lines</b>	
i)	LILO of both ckts of 220kV D/C Hiranagar - Bishna Tr. Line (8kms) at 220/66kV Samba(JK) S/s.	LILO of 220kV D/C line is proposed to be deleted and new 220kV D/C transmission line from Samba (JK) to Samba (PG) is proposed to be included.
ii)	LILO of Hiranagar - Gladni (ISTS) 220kV S/C Tr. Line (8 kms) at 220/33kV Chowadhi S/s	LILO line at Chowadhi S/s is proposed to be deleted and replaced with new 65Kms 220kV D/C transmission line from Samba (JK) to Chowadhi and Chowadhi to Nagrota.
iii)	LILO of one circuit of Barn-Kishenpur 220kV D/C transmission line at 220/33kV Nagrota S/s	
2)	<b>Sub-sation</b>	
a)	<b>New Substation</b>	
(i)	220/33kV Chowadhi (53.33x3) MVA + (53.33x1) MVA (spare) including LILO of Hiranagar Gladni (ISTS) 220 kV S/C Tr. Line (8kms)	No Change
(ii)	220/66kV Samba (53.33x3)MVA+ (53.33x1)MVA (spare) including D/C LILO of Hiranagar Bishna Tr. Line (8kms)	No Change

3. The representative of PGCIL informed that packages for construction of 220/66kV Samba, Kathua and 220/33kV Chowadhi S/s along with LILO lines have already been

awarded by PGCIL in May/June, 2018 and major changes in scope of work are not possible at this stage.

#### **4. 220/66kV AIS Samba sub-station**

The representative of JKPDD informed that a 160 MVA, 220/66 kV Substation under PMDP-15 is being constructed in district Samba about 5kms west of existing 3x315 MVA, 400/220kV Substation of PGCIL at Jatwal (Samba) for catering to industrial load of Industrial Complex Samba. As per the sanctioned scheme under PMDP-15, it is proposed to LILO both circuits of existing Hiranagar –Bishnah 220kV D/C transmission line at 220/66 kV Samba (JK). The transformation capacity of Samba(JK) substation is proposed to be 320 MVA by the end of 13<sup>th</sup> five-year plan i.e. 2021-22. About 10kms ahead, another 100MVA, 220/33kV substation at Ramgarh is also proposed during 13<sup>th</sup> five-year plan for which again LILO of Hiranagar –Bishnah 220 kV D/C transmission line is proposed. The present transformation capacity of Bishnah 220/132kV substation is 320MVA. So, by the end 13<sup>th</sup> five-year plan, Hiranagar –Bishnah 220kV D/C line with ACSR Zebra, shall cater to requirement of 740MVA transformation capacity.

Representative of JKPDD suggested that instead of LILO of both circuits of existing Hiranagar –Bishnah 220kV D/C line at 220/66 kV Samba (JK), a new 220 kV D/C line may be constructed from 400/220kV Samba (PG) Substation to 220/66 kV Samba (JK) Substation, which may further be extended to connect to Ramgarh substation in future. He further stated that the length of 220 kV LILO line is 8 km and length of proposed Samba (PG) – Samba(JK) 220 kV D/C line would be approximately 5 km. PGCIL stated that actual length would be ascertained after completing survey of Samba(PG) - Samba(JK) 220 kV D/C line.

It was observed that the modified proposal of JKPDD would not have any cost implication over and above approved DPR cost therefore the proposal of JKPDD i.e Samba(PG) - Samba(JK) 220 kV D/C line was agreed in place of LILO of both circuits of existing Hiranagar –Bishnah 220kV D/C line at 220/66 kV Samba (JK).

PGCIL shall construct 220kV D/C transmission line from 220KV Samba (JK) to 400/220kV Samba (PG) up to the earmarked space for future bays with a provision that at dead end tower, LILO arrangement with one circuit of Jatwal - Bishnah 220kV D/C line is possible as an interim arrangement. JKPDD assured that LILO of Hiranagar -Bishnah 220kV D/C line at Samba (PG) would be completed before the completion of Samba (JK) to Samba (PG) 220kV D/C line.

PGCIL representative intimated that no spare line bays are presently available at 400/220 kV Samba (PG) Substation for termination of 220kV New line from 220kV Samba (JK) to Samba (PG). The matter of 2 nos. line bays at Samba (PG) Substation would be taken up in the forthcoming NRPC/SCM. 2nos line bays at 220/66kV Samba (JK) S/s shall become spare and same would be utilized for future Ramgarh feeders.

**5. 220/33kV AIS Chowadhi Sub-station**

JKPDD representative stated that presently 100MVA load at 220/132kV Gladni substation is being catered through existing Hiranagar – Gladni 220kV S/C transmission line, which is further proposed to be looped in at new Chowadhi s/s. The capacity of this substation shall further be augmented to 320MVA by the end of 13<sup>th</sup> Five Year Plan i.e. 2021-22. Therefore, Hiranagar - Gladni S/C 220kV transmission line shall have to cater load of 420MVA by the end of year 2021-22, resulting overloading of this line on very first day when Chowadhi s/s is commissioned.

**6. 220/33kV Grid Station Nagrota: -**

JKPDD representative stated that Barn-Kishenpur 220 kV D/C transmission line, which is already supplying power to existing and fully loaded 320MVA, 220/132kV Barn substation, is proposed to be looped in at new 100MVA, 220/132kV substation at Nagrota. The capacity of 220/132kV substation Barn, is presently being augmented from 320MVA to 370MVA by installing another 50MVA, 220/132kV transformer for Konkan Railways Project of Jammu - Srinagar railway line. During 13<sup>th</sup> Five Year Plan, Barn substation is also proposed to be augmented to 530MVA by installing another 160MVA, 220/132kV transformer. Therefore, by the end of 13<sup>th</sup> Five Year Plan, Barn-Kishenpur 220 kV D/C transmission line shall have to supply power to total installed capacity of 630MVA which may again results in overloading of this line for which rotational curtailment shall have to be imposed at lower voltage level.

JKPDD representative proposed to construct a new 220kV D/C transmission line from 400/220kV Samba(PG) s/s to proposed new 220/33kV substation at Nagrota and further looping in this line at proposed new 220/33kV substation at Chowadhi.

PGCIL representative intimated that 220kV line bays for present modification proposed by JKPDD are not available at 400/220kV Samba (PG) substation and this line shall be new scope of work. As there was change in scope as well as additional cost on transmission project, the modification suggested by JKPDD was not agreed and the scheme for LILO work at 220/33kV Chowadhi and Nagrota S/s was kept same as per approved DPR under PMDP-15.

7. PGCIL representative informed that as per approved DPR under PMDP-15, a LILO of Hiranagar –Thein 220kV D/C transmission line at 220/66kV Kathua substation is to be implemented by them and they have already approved route alignment of LILO lines and 220/66 kV Kathua substation is also under construction but the Hiranagar - Thein 220 kV D/C line is yet to be completed by JKPDD, which shall be a bottleneck for charging the 220/66kV Kathua Substation.

JKPDD representative informed that Hiranagar –Thien 220kV D/C transmission line could not be commissioned due to minor pending work. He stated that 220 kV line would be commissioned before completion of 220/66kV Kathua S/s.

8. PGCIL representative intimated that as per DPR under PMDP-15, 2nos 132kV line bays are to be constructed at 132kV Habak Substation, however as decided during a meeting on 07.06.2018 and 08.06.2018 at Bemina with JKPDD (a copy of MOM dated 08/06/2017 attached), due to the space constraints, the said line bays have been shifted to 132kV Waganpora Substation. Further also there is resultant change in route alignment of 132kV D/C underground cable from **Habak-Khanyar (14Kms)** to **Wagaonpora-Khanyar (8kms)**.
  
9. RECTCL representative informed that Kargil - Padum (Zanaskar) 220kV S/C line, Phyang (PGCIL) - Diskit (Nubra) 220kV S/C line, Padum(Zanaskar) S/s, Diskit(Nubra) s/s and line bays at Phyang and Kargil s/s could not be awarded due to low estimated cost. He further stated that they had carried out survey in September 2017 to re-estimate the cost and based on survey, BOQ and cost estimate of the transmission system was prepared and forwarded to JKPDD on 5th December 2017. The estimated cost based on the site survey is Rs 1196.48 Crore and JKPDD vide letter dated 05.02.2018 suggested to change the route of line to Drass - Padum instead of Kargil - Padum citing the reason that nearby area of Kargil Substation has become denser and JKPDD has faced severe ROW problem while executing 66 kV Line from Chutuk HEP. JKPDD advised RECTPCL to explore/re-survey the possibilities of taking this line to Padum(Zanskar) from 50 MVA, 220/66 kV Drass s/s by PGCIL. Accordingly, RECTPCL reworked the BOQ & Cost estimates.

RECPTL representative further informed that they had submitted revised cost estimate (RCE) for Rs 1064.45 Crore to JKPDD on 21.02.2018 after rerouting the line (length of the Drass - Padum line is 196 km against the 207 km Kargil – Padum line) and JKPDD forwarded the cost estimate to PGCIL (PMA for Project) on 20.03.2018. PGCIL submitted their comments to RECPTCL on 13.04.2018. As decided in cost committee meeting held on 31.05.2018 and RECPTL resubmitted cost estimate to JKPDD on 01.06.2018 for their review. JKPDD has to review the estimate and submit final estimates to RECTPCL for further necessary action. RECPTL representative stated that during meeting between Ministry of Power and Energy Minister, J&K on 08.06.2018 in MoP, New Delhi, it was decided that considering the high cost of proposed transmission system, JKPDD would submit detailed justification regarding criticality of this system for reliable power in the remote area of J&K for review and approval of revised project cost by Ministry of Power. He informed that after finalization of the revised cost estimate tender document for above projects would be floated.

After detailed deliberations, the following changes in the scope were agreed.

Sr. No.	Original Scope	Modifications suggested by PDD in letter dt 13.08.2018/	Modification Agreed

		<b>Changes As per MOM with PDD</b>	
1)	<b>Transmission Lines</b>		
i)	LILO of Hiranagar-Bishnah 220 kV D/C Tr. Line (8kms) 220/66kV Samba(JK).	JKPDD proposed LILO line is to be deleted and new line 220kV D/C transmission line from Samba(JK) to Samba (PG) is to be constructed.	<i>LILO of Hirangar-Bishna 220 kV D/C line at 220/66kV Samba(JK) agreed to be deleted. New 220kV D/C line from 220/33 kV Samba(JK)-400/220 Samba(PG) to be constructed with provision of LILO at Dead end (Towers) with one circuit of 220kV Jatwal-Bishna TL till the 220kV Line bays to be constructed at 400/220kV Samba(PG) Substation.</i>
ii)	LILO of Hiranagar Gladni (ISTS) Tr. Line (8kms) at 220/33kV Chowadhi S/s	As per PDD proposal, D/C LILO line has to be deleted and new 65Kms line 220kV D/C TL from Samba to Chowadhi & Chowadhi to Nagrota is proposed.	<i>No change agreed upon, same as per approved DPR and original scope under PMDP-15.</i>
iii)	LILO of Barn-Kishenpur transmission line at 220/33kV Nagrota S/s		
iv)	132kV D/C U/G Khanyar-Habak TL	132kV D/C U/G Wagaonpora-Khanyar TL.	POWERGRID has already awarded as per MOM with PDD dated 08.06.2017.
2)	<b>Sub-sation</b>		
a)	<b>New Substations</b>		
(i)	220/33kV Chowadhi (53.33x3)MVA+(53.33x1) MVA (spare) including S/C LILO of Hiranagar Gladni (ISTS) Tr. Line (8kms)	No Change	No Change
(ii)	220/66kV Samba (53.33x3)MVA+(53.33x1) MVA (spare) including D/C LILO of Hiranagar Bishnah Tr. Line (8kms)	No Change	No Change
b)	<b>Extension Substations</b>		
i)	132kV extension at Habak for 2nos line bays	132kV extension at Wagonpora 2 nos line bays.	Due to space constraints, PGCIL has already awarded as per MOM with JKPDD dated 08.07.2017 (Members noted the same).
<b>Following decisions were also taken in the meeting:</b>			
3	220 kV D/C Hiranagar - Their existing TL shall be commissioned by PDD before commissioning of 220/66kV Kathua Substation.		

<b>4</b>	RECPTCL will discuss the issue of Phyang-Diskit line and Drass – Padum line in place of Kargil – Padum line alongwith associated substations bays and ratify the proposed changes with CE (PSP&A-I), CEA, at the earliest.
----------	--

Meeting ended with thanks to the chair.



**List of Participants**

**CEA**

- |                           |                                  |
|---------------------------|----------------------------------|
| 1. Sh. B K Arya           | Chief Engineer (PSPM) – In Chair |
| 2. Sh Ravinder Gupta      | Chief Engineer (PSPA-I)          |
| 3.Sh. Awdhesh Kumar Yadav | Director (PSPA-I)                |
| 4.Sh. Sanjay Jain         | Director (PSPM)                  |
| 5. Sh. R K Tiwari         | Deputy Director (PSPM)           |

**POWERGRID**

- |                        |             |
|------------------------|-------------|
| 1. Sh. Tarun Bajaj     | DGM         |
| 2. Sh. Deepak Chaudhry | Manager     |
| 3.Sh. Gautam Sharma    | Dy. Manager |
| 4. Sh. AK Vaish        | Consultant  |

**RECTPCL**

- |                      |               |
|----------------------|---------------|
| 1. Sh. Vivek Agarwal | Chief Manager |
|----------------------|---------------|

**JKPDD**

- |                     |   |
|---------------------|---|
| 1.Sh. Avinash Dubey | Chief Engineer (S&O Wing), Jammu              |
| 1. Sh. Sudhir Gupta | Superintending Engineer, (S&O Wing),<br>Jammu |