



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

No. CEA/PS/PSPM/1/60/CFS/2018 / 1212-20

Dated 10/07/2018

सेवा में,

(संलग्न सूची के अनुसार)

**विषय:** श्रीनगर-लेह 220 केवी ट्रांसमिशन लाइन, एलस्टेंग 220/132/33kV सबस्टेशन और एलस्टेंग-जैनकोटे 220 केवी डी/सी ट्रांसमिशन लाइन की समीक्षा करने के लिए मुख्य अभियंता (विद्युत प्रणाली परियोजना प्रबोधन प्रभाग) द्वारा 20.06.2018 को ली गई बैठक का कार्यवृत्त ।

**Subject:** Minutes of meeting taken by Chief Engineer (PSPM), CEA on 20.06.2018 to review the physical progress of Srinagar - Leh 220 kV Transmission Line by PGCIL, Alusteng 220/132/33kV S/S & Alusteng - Zainakote 220kV D/C Transmission Line being constructed by JKPDD

महोदय,

श्रीनगर-लेह 220 केवी ट्रांसमिशन लाइन, एलस्टेंग 220/132/33kV सबस्टेशन और एलस्टेंग-जैनकोटे 220 केवी डी/सी ट्रांसमिशन लाइन की समीक्षा करने के लिए मुख्य अभियंता (विद्युत प्रणाली परियोजना प्रबोधन प्रभाग) द्वारा 20.06.2018 को ली गई बैठक का कार्यवृत्त संलग्न है ।

**संलग्नक:** यथोपरी ।

भवदीय,  
10/07/18  
(आर पी. प्रधान)  
निदेशक

**प्रति सूचनार्थ:**

1. संयुक्त सचिव (ट्रांस), विद्युत मंत्रालय, श्रम शक्ति भवन, रफ़ी मार्ग, नई दिल्ली-110001
2. सदस्य (विद्युत प्रणाली), केविप्रा के प्रधान निजी सचिव
3. मुख्य अभियंता (पी एस पी ए -I), केविप्रा

**List of Addressees:**

<b>S. No.</b>	<b>Name and designation</b>	<b>Address</b>	<b>Telephone/Fax/email</b>
1.	Principal Secretary to the Government, Jammu & Kashmir	R. No. 469, 4th Floor, Civil Secretariat, Srinagar - 190001	0194-2506068(T) 0194-2506048(F) Email:rajgoyal@nic.in
2.	Development Commissioner (Power), Jammu & Kashmir Power Development Department (JKPDD)	Civil Secretariat, Srinagar, Jammu & Kashmir - 190001	Ph: 0194-2479836 0194-2452173 Fax No: 0194-2452173 pdd-jk@nic.in dcpjkd@yadoo.com
3.	Executive Director (BDD) POWERGRID	Saudamini, Plot No.2, Sector 29, Near IFFCO Chowk, Gurgaon (Haryana) – 122001 Ph: 0124- 2571800/2571900 Fax:01242571990/ 2571922/2571760/09810530571	Sh. Supratim Das (GM)7042499408 tcsarmah@powergridindia.com supratimdas@powergridindia.com skpal@powergridindia.com ajaiku@hotmail.com
4.	Er. Mohammad Muzaffar Matoo Chief Engineer, S&O Wing Srinagar, Kashmir	Power Development Department System & Operation Wing Srinagar- 190001	Tel: 0194-2491340 (M) 09419001131 muzafarmattu@gmail.com dosokashmir@rediffmail.com
5.	Er. Javed Yousuf Dar Superintending Engineer, S&O circle 2 <sup>nd</sup> Srinagar	Power Development Department System & Operation Wing Srinagar - 190001	Tel: 0194-2493168 (M) 09419003485 sandokashmir@rediffmail.com
6.	Shri Venu Madhav, Chief Coordinator (P), ECI Engg. & Construction Co. Ltd.	ECI Engg. & Construction Co. Ltd. Plot No. A-12-13, Panchavati Township Manikonda, Hyderabad 500089, T.S.	(T) 040-24786099 (Fax) 040-24786100 Sh. V. Madhav (09701044555) Sh. Manish Sarotra (09086072727) eci@eciecc.com venu@eciecc.com sarotra2007@gmail.com

**Minutes of meeting taken by Chief Engineer(PSPM), CEA on 20.06.2018 to review the physical progress of Srinagar - Leh 220 kV S/C Transmission Line by PGCIL and Alusteng 220/132/33kV S/S & Alusteng – Zainakote 220kV D/C Transmission Line being constructed by JKPDD**

List of participants is enclosed at Annexure-I.

- At the outset, Chief Engineer (PSPM) welcomed all participants. After brief introduction, he stated that meeting has been called to discuss the progress of Alusteng-Zainakote 220 kV D/C line and Alusteng S/s of JKPDD, as both are critical for successful charging of strategically important 220 kV Alusteng-Leh S/C line of PGCIL. PGCIL informed that all efforts are being made to complete the project by Sept' 18. PGCIL representative submitted physical progress of remaining sections as under:

- **Alusteng (Srinagar) – Drass section:**

Length of line(km)	: 115
Tower Location(nos)	: 425
Foundation completed(nos)	: 388
Tower Erected(nos)	: 339
Stringing done(Km)	: 66.7

He further asked representative of PGCIL to brief the section-wise progress of Alusteng - Leh 220 kV S/C Transmission Line. Section-wise progress of Alusteng-Leh line and associated substations as informed by representative of PGCIL is as under:

- **Khalsti – Leh Section:** This section has been commissioned on 31<sup>st</sup> Oct'17. Length of line in this section is 61.5 km.
- **Kargil – Khalsti section:** This section has been completed and ready for commissioning. Length of line in this section is 96 km.
- **Drass – Kargil Section:** Progress of line is as under:

Line Length (Kms):	60
Total Tower Locations (nos.):	203
Foundations completed (nos.):	203
Towers Erected (nos.):	203
Stringing completed (Kms.):	58

- **Alusteng (Srinagar) – Drass section:** Progress of line is as under:

Line Length (Kms):	115
Total Tower Locations (nos.):	425
Foundations completed (nos.):	388
Towers Erected (nos.):	339
Stringing completed (Kms.):	66.7

PGCIL informed that Tower foundation and tower erection works are under progress. This section will be ready by Sep'18. PGCIL informed that resolution of ROW issues is pending at 2 locations in Ganderbal area in Alusteng (Srinagar) – Drass section. Land owners are not allowing works, demanding shifting of line. DC, Ganderbal has initiated compulsory land acquisition proceedings.

- **Underground cable work (6.3km length) near Sonmarg & Zozilla Pass:**

Excavations and preparation of cable trench is in progress and 0.8km cable has already been laid. All materials including cables and accessories are available at site. This section of line will be completed in Sep, 2018. PGCIL representative informed that 2x50MVA, 220/66 kV Leh GIS and 1x50MVA 220/66 kV Khalsti GIS have been commissioned on 1st Nov'17 and 1x50MVA, 220/66 kV Drass GIS has been made ready for charging. PGCIL submitted the progress of Kargil GIS as under:

- Progress of 2X50 MVA 220/66 kV GIS at Kargil:

Land acquisition:	Land handed over in Dec'16
Civil work (%) :	70
Equipment received (%) :	95
Equipment erected (%) :	65
Anticipated date of completion :	Sep' 18

- CE (JKPDD) informed that 132kV side of Alusteng S/S is expected to be completed by Sep'18. At 220 kV side, site leveling, boundary wall, equipment foundation and Transformer foundation work is under progress. Most of electrical equipment required for substation, has been lying at site since long and reconditioning job of 220/132 kV and 132/33 kV transformers including procurement of damaged/missing/ unserviceable parts has been entrusted to M/s Toshiba TTDI. Similar orders in respect of other equipment i.e. Circuit Breakers, isolators, etc. have also been placed. Substation work is expected to be completed in Sep, 2018. However, he was apprehensive about the healthiness of transformers after reconditioning. It was also informed that JKPDD is planning LILO of existing 132 kV Uppersindh to Habak line at Alusteng S/S, which can be used as interim arrangement for charging of Alusteng-Leh line for anti-theft purpose. PGCIL informed that 220 bays at Alusteng S/s and connecting lines are required for load flow up to Leh / Laddakh region. Accordingly, JKPDD may expedite works of Alusteng s/s matching with Alusteng (Srinagar) – Leh line. PGCIL informed that for any interim interconnection JKPDD may obtain prior clearance from appropriate authority.
- Regarding status of Alusteng – Zainakote 220kV D/C Transmission Line, CE (JKPDD) informed that Alusteng – Zainakote line work is awarded to M/s ECI Engg. & Construction Co. Ltd, Hyderabad in Aug, 2010 and revised LOA was issued in Jan'2011. Progress of line is as under:

Line Length (Kms):	50
Total Tower Locations (nos.):	160
Foundations completed (nos.):	148
Towers Erected (nos.):	100
Stringing completed (Kms.):	7.6
- JKPDD informed that the work at site is under progress but progress is very slow. Only 6 Nos. Towers (viz. 57AN, 80C+3, 81AN, 103CN, 123C+3 & 140CN) have been erected since April 2018 till date without carrying out any stringing of conductor though a major stretch of line was free/ readily available for execution of work. He further informed that right now, the tower location Nos. viz. 21CN, 22A+6, 44C+6, 75DN, 146D+6, 147DN, 154DN are free for erection as well as corridor from Tower Location 5 to 11 is free for stringing.
- Representative of M/s ECI informed that progress of line is slow due to unresolved ROW issues and delay in payments from JKPDD. Status of tower material, conductor, insulators and associated hardware, as provided by ECI is attached at Annexure-II. ECI representative informed that balance towers would be supplied by ECI, however ECI informed that due to poor financial condition of company it will not be possible for them to provide conductor for stringing.
- CE (JKPDD) agreed to provide conductor for remaining length of line to ECI and adjust the cost of conductor in the project cost, provided ECI ensures that remaining work of tower erection and stringing will be completed latest by Oct'18. Same was agreed by ECI.
- Representative of M/s ECI informed that due to poor financial condition, they are not in a condition to afford idling charges of gangs due to RoW problems and late payment of bills from JKPDD. ECI further informed that JKPDD has imposed liquidated Damages (LD) on ECI for delaying the project and requested JKPDD not to recover LD from RA bills.
- CE (JKPDD) ensured that bills would be cleared within a week and also ensured that fronts for erection and stringing would be made available to ECI. Regarding imposing of liquidated Damages (LD) on ECI, he stated that he would take up matter for its waiver provided ECI completes balance line construction work at the earliest.

10. CE (PSPM) stated that generally major requests of ECI have been agreed by JKPDD and asked JKPDD / ECI to provide an action plan to complete the balance work by Sept, 2018. M/s ECI requested CE (JKPDD) to provide them adequate front for tower erection and conductor stringing, so that gangs should not sit idle and work may be completed by Sept, 2018. An action plan mutually agreed by JKPDD & M/s ECI is attached at Annexure-III.

Meeting ended with vote of thanks to the chair.

**List of Participants**

**CEA**

- |                      |                                  |
|----------------------|----------------------------------|
| 1. Sh. B K Arya      | Chief Engineer (PSPM) – In Chair |
| 2. Sh. Ajitesh Kumar | Dy. Director (PSPM)              |
| 3. Sh. R K Tiwari    | Dy. Director (PSPM)              |
| 4. Sh. Rajesh        | Asstt. Director-I (PSPM)         |
| 5. Sh. Ravi Kant     | Asstt. Director-II (PSPM)        |

**POWERGRID**

- |                 |            |
|-----------------|------------|
| 1. Sh. SK Pal   | DGM        |
| 2. Sh. AK Vaish | Consultant |

**JKPDD**

- |                      |                 |
|----------------------|-----------------|
| 1. Sh. Muzafar Mattu | Chief Engineer  |
| 2. Sh. Javed Y Dar   | Senior Engineer |

**ECI Engg. & Const. Co. Ltd**

- |                       |                    |
|-----------------------|--------------------|
| 1. Sh. Munish Sarotra | Project Manager    |
| 2. Sh. Venu Madhav    | Chief Co-ordinator |

- **Status of Tower erection and availability of material**

Tower Type	No. of Tower	Erected	Balance & availability of material
Normal (A)	20	14	6
+3	15	11	4
+6	7	3	4
+25	1	-	1 (Not Available)
+32	2	-	2 (Not Available)
B/C (Normal)	40	29	11
+3	14	8	6
+6	11	5	6
D (Normal)	28	21	7
+3	5	4	1
+6	8	2	6
Snow Zone (+3)	3	-	3(Not Available)
Snow Zone (+6)	3	-	3(Not Available)
Total	157	97	54

- **Status of Conductor availability:**

- There is requirement of around 250km ACSR Zebra conductor
- Conductor available at site: 55km (ECI) + 45 km (JKPDD)
- Around 150km Conductor is required by ECI.

- **Status of insulators & associated hardware availability:**

- Available

**Annexure-III**

**Action plan to complete 220 KV D/C Alusteng - Zainkote Transmission line by Sept 2018**

Sr.No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Loc. No.	1	2	3	4	5	7	8	9X	9Y	9Z	10	11	12	13	14	15	16	17
Type of Tower	D+0	D+0	M	M	M	C+6	C+6	D+0	C+0	C+0	A+3	C+0	A+3	D+0	C+0	C+0	C+3	A+3
Span (Mtrs.)	55	36	34	213	275	100	245	240	340	270	300	210	270	214	256	264	354	350
Foundation	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Completion Date																		
Reason for delay																		
Tower Erection	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	NC	NC	C
Completion Date																Aug-18	Aug-18	
Reason for delay																(YTC) (Land owner not attending PNC.)		
Stringing	NC	NC	C	C	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Completion Date	Jul-18	Jul-18			Jul-18	Jul-18	Jul-18	Jul-18	Jul-18	Jul-18	Jul-18	Jul-18	Jul-18	Jul-18	Jul-18	Sep-18	Sep-18	Sep-18
Reason for delay																		
Section length																		

Tower location (nos) 160  
 Foundation completed 148  
 Foundation yet to complete 12  
 Tower erected 100  
 Tower yet to erect 60  
 Length of line(km) 50  
 Stringing completed 7.66

Abbreviation **YTC** Yet to be cleared by JKPDD  
**MNA** Material not available  
**NC** Not Completed  
**C** Completed





















Sr.No.	156	157	158	159	160
Loc. No.	153	154	155	156	157
Type of Tower	SZ+3	D+0	D+0	C+0	D+0
Span (Mtrs.)	290	227	134	100	55
Foundation	C	C	C	C	C
Completion Date					
Reason for delay					
Tower Erection	NC	NC	C	C	C
Completion Date	Jul-18	Jul-18			
Reason for delay	MNA	YTC			
Stringing	NC	NC	C	C	C
Completion Date	Jul-18	Jul-18			
Reason for delay					
Section length					