

I/3048/2018



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

दिनांक: 03.12.2018

सेवामें,

संलग्न सूची के अनुसार

विषय: उत्तराखंड और सिक्किम में एच ई पी, झारखंड और जम्मू-कश्मीर में पारेषण परियोजनाओं तथा एनटीपीसी के थर्मल पावर प्रोजेक्ट (3x660 MW) से जुड़े ट्रांसमिशन लाइनों और सबस्टेशन की प्रगति की समीक्षा करने के लिए मुख्य अभियंता (पी एस पी एम) द्वारा 16.11.2018 को ली गई बैठक का कार्यवृत्त ।

महोदय,

उत्तराखंड और सिक्किम में एचईपी, झारखंड और जम्मू-कश्मीर में पारेषण परियोजनाओं तथा एनटीपीसी के थर्मल पावर प्रोजेक्ट (3x660MW) से जुड़े ट्रांसमिशन लाइनों और सबस्टेशन की प्रगति की समीक्षा करने के लिए मुख्य अभियंता (पी एस पी एम) द्वारा 16.11.2018 को ली गई बैठक का कार्यवृत्त संलग्न है ।

संलग्नक : यथोपरि ।

भवदीय

(संजय जैन)
निदेशक

प्रति सूचनार्थ:

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

I/3048/2018

पते की सूची:

Sl. No.	Organization	Address	Tele/Fax No./email
1	PGCIL	Chairman and Managing Director POWERGRID Saudamini, Plot No.2, Sector 29, Near IFFCO Chowk, Gurgaon (Haryana) - 122001	cmd@powergridindia.com skpal@powergridindia.com ajaiku@hotmail.com
2	JKPDD	Development Commissioner (Power), PDD, Govt. of J&K, Power House, Janipur, Jammu-180007	(Sh. Javed Y. Dar, CE (S&O Wing), Kashmir sandokmr@rediffmail.com 0194-2493168, 09419003485) dcpjkpdd@yahoo.com , sojppdd@gmail.com
3	THDC	Chairman & Managing Director THDC India Ltd. Pragatipuram, Bye pass road Rishikesh – 249001 Fax No: 0135 – 2432685/2431520	Sandeep Chaddha (DGM) Ph: 9868849832 Email: sandeepchadha@yahoo.co.in
4	PTCUL	General Manager(Project), Power Transmission Corporation of Uttrakhand (PTCUL), 650 Kanwali Road, Dehradun- 248001	H.S.Hyanki (SE) 7088117917 Email: hs_hyanki@ptcul.org
5	NTPC	Chairman & Managing Director NTPC Ltd., NTPC Bhawan, Scope Complex, Institutional Area, Lodhi Road, New Delhi -110003.	Email: cmd@ntpc.co.in D. Trachan (GM) 9650992268 Email: deepaltrdean@ntpc.co.in T.K.Chaudhuri (AGM(EE)) 8757885968 Email: tkchaudhuri@yahoo.co.in
6	TVPTL	Managing Director, TVPTL 2 nd Floor, Vijaya Building 17, Barakhamba Road, Connaught Place, New Delhi	bsjha@tvptl.com , rk@tvptl.com 9910026621
7	NKTL	Sr. Vice President, North Karanpura Transco Ltd (Adani Transmission Ltd) 7th Floor, Sambhav Building, Judges Bungalow Road, Bodakdev,Ahmedabad, Gujarat- 380015	E-mail: ln.mishra@adani.in M: 9099900244 E-mail: sameer.ganju@adani.com M: 8860550077
8	L&T	M/s L&T Power Development 26, Mohini Road, Dalanwala, Dehradun-248001, Uttarakhand	B. Bhattacharjee (Head Technical) 9873300831 Email: baijayanta.bhattacharjee@larsentoubro.com

Minutes of meeting taken by Chief Engineer (PSPM), CEA on 16/11/2018 to review the progress of transmission lines & Substations associated with HEPs in Uttarakhand & Sikkim, Transmission Projects in J&K and NTPC's Thermal Power Project (3x660MW) in Jharkhand

List of participants is enclosed at Annexure-II. No representative from NKTL attended the meeting.

2. At the outset, Chief Engineer (PSPM), CEA welcomed the participants and after brief introduction he initiated the discussion. Brief of discussions held during the meeting are as under:

A. ATS for HEPs in Uttarakhand [Singoli Bhatwari, (3x33 MW) of L&T Power Development Ltd, Tapovan Vishnugad, (4x130MW) of NTPC and Vishnugad Pipalkoti, (4x111MW) of THDC]

ATS for Singoli Bhatwari HEP (3x33 MW):

3. Representative of M/s. L&T Power Development Ltd, of Singoli Bhatwari HEP (3x33MW) informed that Unit-1, which is scheduled for commissioning in March 2019, may be delayed by few months due to following major issues:
 - a. Damage of road to Rudraprayag Bridge led to delay in transportation of Generator Transformers (GTs) to site. The GTs reached Haridwar in January 2018, but it could not be transported to site due to damage in the approach road to the Rudraprayag Bridge. The approach roads to the bridge have been temporarily repaired by L&T for transportation of GTs. The GTs are now scheduled to reach site by mid of December 2018.
 - b. The revised minimum environmental flow has been notified vide Gazette of India (Extraordinary) No. No. 4009 dated 10th October 2018. The revised flow is higher than the flow mandated in the environmental clearance (EC) for the project. The project headworks (barrage) including radial gates are nearing completion. Provision in the headworks has been made for release of environmental flow as per the EC. At this advanced stage of construction of the project, modification in the design & construction of civil structures to make necessary arrangement for discharge of these flow will be a difficult task and will require additional time.
4. The LILO of both circuits of Bramhwari – Srinagar 220 kV D/C line (almost 90 Km) was planned at Singoli – Bhatwari HEP. The Singoli Bhatwari - Srinagar 220kV D/C line being executed by M/s L&T would be completed by December 2018. The representative of L&T further informed that PTCUL is yet to share bay details at Srinagar s/s for termination of Singoli Bhatwari – Srinagar 220 kV line. He further stated that in the meeting held on 12th September 2018 in CEA (meeting taken in PSAP-I Division), it was decided that LTA would be granted to Singoli Bhatwari HEP by CTU and LTA is yet to be granted.
5. The representative of PTCUL confirmed that alternate arrangement will be provided by PTCUL for evacuation of power from Singoli Bhatwari HEP till commissioning of Srinagar-Kashipur 220 kV D/C line.

ATS for Tapovan Vishnugad HEP (4x130 MW)

6. Representative of Tapovan Vishnugad (4X 130MW) HEP of NTPC informed that following transmission lines as approved in 38th Standing committee are required to be commissioned in matching time frame with synchronisation of Tapovan Vishnugad HEP.
 - a. Tapovan Vishnugad HEP - Pipalkoti 400 kV D/C line with twin moose ACSR conductor.
 - b. Pipalkoti - Srinagar (existing s/s) 400 kV D/C line with Quad moose ACSR conductor.
 - c. Srinagar - Kashipur 400 kV D/C line.

7. The representative of PTCUL informed that LOA for transmission element (a) & (b) have been placed. However, forest clearance for both the elements have not been processed due to non-availability of complete NOC. NIT for transmission element (c) is likely to be issued in Dec 2018 with expected commission schedule of 22 months.
8. NTPC representative requested PTCUL to ensure availability of above lines in the time frame matching with synchronization of Tapovan HEPP i.e by Sep 2020.
9. PTCUL representative informed that scope of work of transmission line (about 90 Kms) has been divided into three packages (each package about 30 Kms) and LOA for elements (a) and (b) have already been placed on two agencies. CEA advised to explore the possibility of modifying the scope of work covered in packages so that maximum work could be executed except for last package covering Pipalkoti area (about 10 Kms) where NOC from villagers is awaited. M/s PTCUL agreed with the suggestion.

ATS for Vishnugad Pipalkoti HEP (4x111 MW):

10. Interim LILO arrangement of existing Vishnuprayag- Muzaffarnagar 400 kV D/c line at Pipalkoti substation, was also discussed for which availability of Pipalkoti substation in matching time frame is essential. However, as per the scheme approved in Standing committee, availability of Pipalkoti substation has been considered in the time frame matching with THDC project. NTPC requested that a meeting of all stake holders (namely UPPTCL, CTU, and NTPC) should be convened in this regard.
11. Representative of Vishnugad Pipalkoti HEP, (4X111MW) of THDC informed that Transmission system for evacuation of Power from VPHEP is being implemented by PTCUL. The work for Kunwari Pass (Pipalkoti) – Karanprayag – Srinagar 400 kV D/c line and Srinagar – Kashipur 400 kV D/c line is expected for award by March'19 with completion period of 22 months. The representative of THDCIL informed that VPHEP is scheduled for commissioning by May'2021. Representative of PTCUL informed that transmission system for VPHEP would be ready matching with the commissioning of VPHEP.

B. ATS for HEPs in Sikkim (Teesta-III (2X600MW) by Teesta Urja Limited

12. Teesta III HEP - Kishanganj 400 kV D/C line of Teesta Valley Power Transmission Limited (TVPTL)

Representative of TVPTL informed that after rigorous follow up and the support from PMG/PMO, Ministry of Power, State Govt. and District Administration, there has been substantial progress in completion of works in the last two quarters. The following works are to be completed: -

Items	Total Locations/ Stringing Length	Cuml. Progress	Balance	Target	Remarks
Foundation [Nos.]	589	589	-	-	-
Tower Erection [Nos.]	589	586	3	3 Nos. By Nov'18	Erection works are under progress in 3 locations.
Stringing [Km]	213.5	199.72	13.78	13.78 km by Dec'18	Stringing works in progress

TVPTL informed that Foundation/Erection works at location no. 190 and the stringing in between loc. no 191 - 193 falling in Lakpatar Village under Pulbazar Police Station in Bijanbari Block of Darjeeling District, West Bengal could not be taken up due to hindrance created by the land owner since last 9 months even after several rounds of discussions at the local BDO/Police office. As a last resort, tower at loc. no. 190 has been excluded and direct stringing from loc. no. 189 to 191 has been considered with additional strengthening of towers (taking into account the required safety measures) at loc. nos 189 & 191. Even after resorting to this measure under compulsion, it is apprehended that the land owner would create hindrance in carrying out stringing works. The issue has been taken up with District Administration.

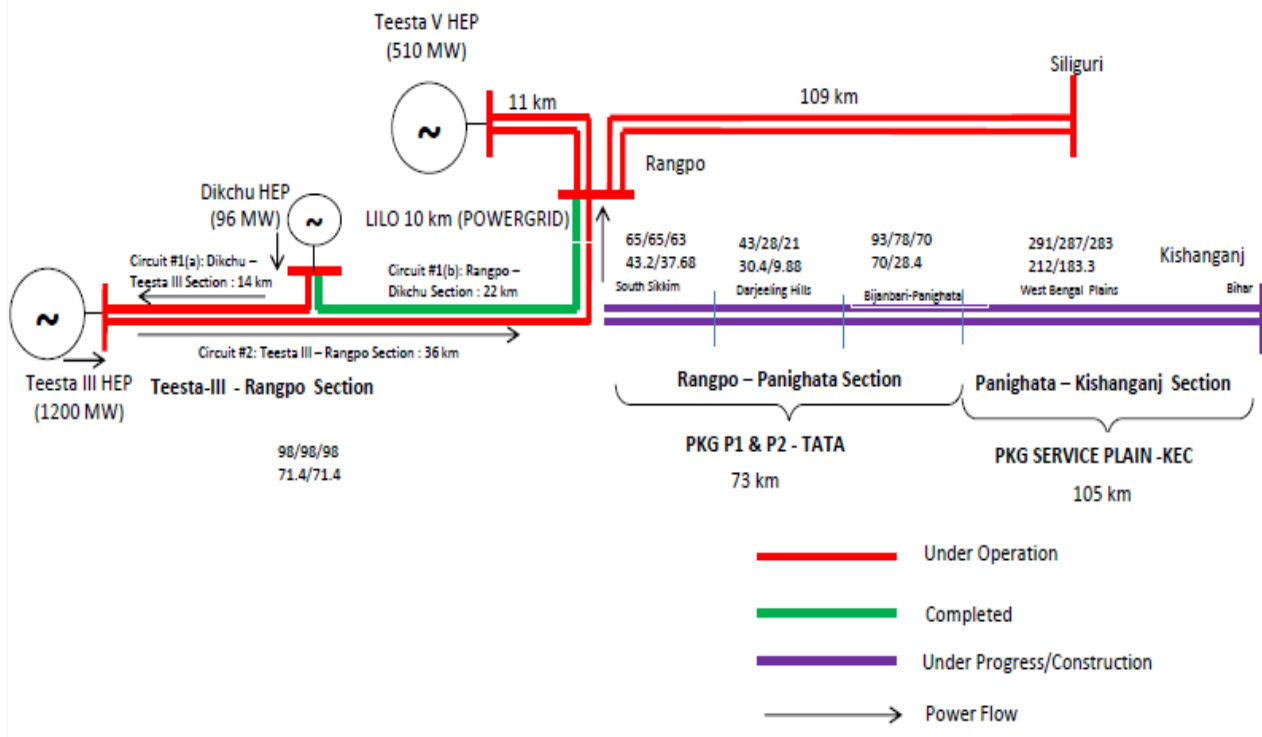
13. TVPTL informed that stringing in between loc. no. 155 & 156N is stalled due to the demand of route diversion by the few residents of Singla village which comes under Goke-I Gram Panchyat, Bijanbari Block, West Bengal though the current alignment is far away from the village. The issue is being discussed with District Administration. TVPTL further informed that in few stretches of the transmission line, permission for tree felling/cutting in private land would be required before energization of the transmission line. The approval process from the District Administration needs to be expedited. The issue is also being discussed and would be resolved with the help of District Administration.
14. TVPTL further informed that stringing in between loc. no. 266 – 268 (2.2 km) in Naxalbari Block, West Bengal is stopped by the villagers and issue is being addressed by SDO, Siliguri & Local Police
15. TVPTL stated that that after several advices from PMG/PMO and Ministry of Power to the State Govt., there has been substantial progress but the last few stretches are still stuck up which is being resolved through intervention from State Govt. TVPTL informed they expect the completion of all remaining works by December, 2018.
16. LILO of Teesta-III – Kishanganj 400kV D/C Tr. Line at Rangpo:
[By Power Grid Corporation of India Limited]

POWERGRID informed that Teesta – Rangpo portion of the LILO arrangement has already been commissioned. Rangpo – Kishanganj portion of line has been decided to be implemented separately as per the decision taken in the Eastern Region Standing Committee for Power System and the same is under implementation stage and expected to be completed by June, 2020 as scheduled.

17. POWERGRID further informed that there is a limitation in power transfer capacity through both the circuits of Rangpo - Siliguri 400 kV D/C line and therefore early completion of Teesta-III – Kishanganj 400kV D/C line is essential. This would remove the constraint in power evacuation from hydro projects situated in Sikkim. The early completion of above line would facilitate to take up the re-conductoring works of Rangpo - Siliguri 400 kV D/C Line with HTLS conductor which can only start after completion of Teesta-III – Kishanganj 400kV D/C Tr. Line. The re-conductoring of Rangpo-Siliguri 400 kV D/C Line is scheduled for completion by May, 2020, but non-availability of shut down owing to non-readiness of 400 kV D/C Teesta-III – Kishanganj Tr. Line may delay the re-conductoring works.

CEA requested TVPTL to expedite the work for completion of Teesta III – Kishanganj 400kV D/C line and PGCIL for completion of Rangpo – Kishanganj 400 kV section.

Schematic Line Diagram



C. ATS for NTPC's North Karanpura Thermal Power Project (3X660MW)

(a) 400 kV D/C North Karanpura (3x660MW) – Chandwa and 400 kV D/C North Karanpura – Gaya Tr. Lines [By North Karanpura Transco Limited (NKTL)]:

18. The representative of NTPC for North Karanpura Thermal Power Project informed that original schedule & revised schedule for ATS/Start-Up Power were Aug'16 & Jun'17 respectively. POWERGRID informed that as per the advice of CEA, preliminary survey was conducted for interim arrangement (i.e LILLO of Gaya – Chandwa 400 kV D/c line at NKSTPP) for evacuation of power from North Karanpura generation project.
19. He stated that Unit#1 Boiler was commissioned in Oct 2018 and boiler light up is scheduled in Mar-2019. The Startup power is in Scope of NTPC and M/s BHEL is the EPC Contractor. NTPC will not able to provide Start up power. Due to non-availability of Startup power and ATS system, NTPC will not able to commission the unit and delay would impact their IDC, Project cost and tariff.
20. NTPC requested for interim arrangement connecting North Karanpura Super Thermal Power Project (NKSTPP) with Chandwa for startup power. The line could be implemented through CTU/PGCIL under Regulated Tariff Mechanism (RTM). The matter relating to transmission system associated with NKSTPP is pending with CERC after termination of contract by ATL.
21. Representative of NTPC informed that petition would be filed in CERC for giving some direction for early completion of ATS System of North Karanpura.

22. Transmission Projects in J&K:

(a) Srinagar (Alusteng) – Leh 220 kV S/C Tr. Line [By Power Grid Corporation of India Limited]

POWERGRID informed that the entire stretch of 351 Km of Srinagar (Alusteng) – Leh 220kV S/C Tr. Line including the Cabling and the GIS substations have been completed and they are waiting for readiness of 220 kV bays at Alusteng (Srinagar) substation for termination of Srinagar (Alusteng) – Leh line and the completion of the downstream Alusteng – Zainakote 220kV D/C line by JKPDD. This is urgently required for connectivity with the NR grid. Representative of Power Development Department (PDD), Govt. of Jammu & Kashmir informed that the Alusteng substation and downstream network is expected for completion by December, 2018.

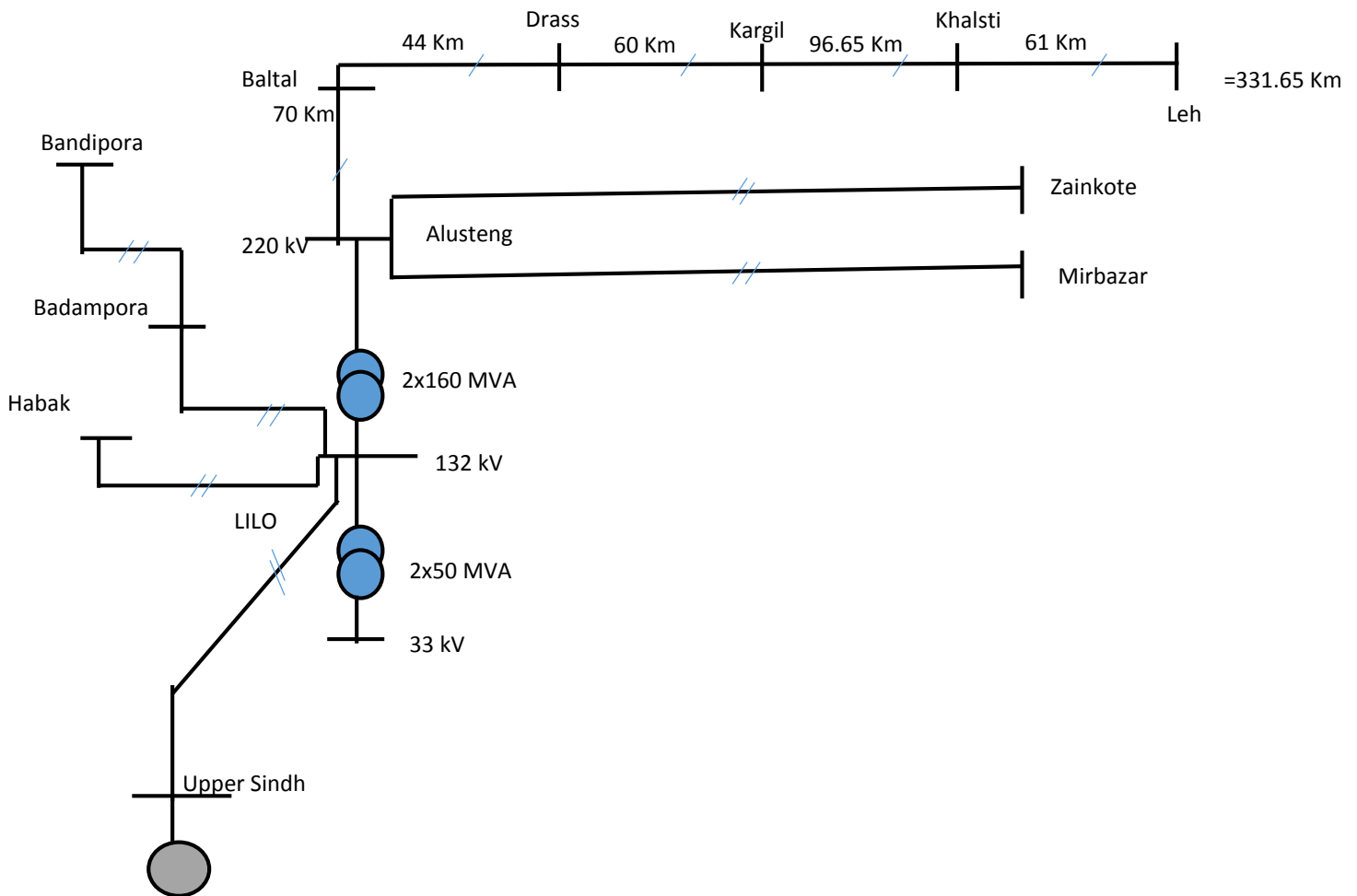
(b) Alusteng – Zainakote 220 kV D/C line and 320 MVA, 220/132 kV Substation at Alusteng

JKPDD representative informed about progress of above line as under:

- Line Length (Kms) : 50
- Total Tower Locations (nos.) : 160
- Foundations completed (nos.): 154
- Towers Erected (nos.) : 120
- Stringing completed (Kms.) : 13

He informed that they are implementing LILO of both circuits of existing Uppersindh - Habak 132 kV D/c line at Alusteng S/S, which can be used as interim arrangement for charging of Alusteng-Leh 220 kV S/c line for anti-theft purpose. PGCIL informed that 220 bays at Alusteng S/s and further connectivity from Alusteng at 220 kV level are required for power flow up to Leh / Laddakh region. JKDD representative informed that LILO of USHP-Habak 132kV D/c line at Alusteng and associated bays, commissioning of 2x50MVA 132/33kV Power Transformers along with 132kV & 33kV switchyards, commissioning of four (4) 220kV Bays along with 3x53.33MVA, 220/132kV Transformer Banks would be completed by Dec' 18.

CEA and PGCIL had the apprehension about the completion of Alusteng – Zainakote 400 kV D/c line considering the progress of work (foundation, erection of tower & stringing) at site. PDD was requested to complete the above line at the earliest.



After detail deliberations following was agreed:

- a. PTCUL, THDC, NTPC and L&TPDL shall coordinate with each other in implementing their respective transmission projects.
- b. PTCUL would ensure availability of transmission links in the time frame matching with synchronisation of Tapovan HEP (i.e. Sep'2020) and Vishnugad Pipalkoti HEP (i.e May'2020).
- c. PTCUL would explore the possibility of modifying scope of work covered in packages so that maximum work could be executed except for last section covering Pipalkoti area (about 10 km) for which NOC from villagers is awaited.
- d. TVPTL, which is implementing the Inter-State transmission project, would ensure completion of Teesta III – Kishanganj 400 kV D/c line by Dec'18 and PGCIL would ensure completion Rangpo – Kishanganj 400 kV section of LILO arrangement at the earliest.
- e. JKPDD would ensure commissioning of 220/132 kV Alusteng Grid Substation & LILO of 132 kV lines at Alusteng s/s by Dec'18 and commissioning of Alusteng – Zainkote 220 kV D/C line at the earliest for effective utilization of transmission assets.

Meeting ends with Thanks to chair.

Minutes of meeting taken by Chief Engineer (PSPM), CEA on 16/11/2018 to review the progress of transmission lines & Substations associated with HEPs in Uttarakhand, Transmission Projects in J&K and NTPC's Thermal Power Project (3X 660MW) in Jharkhand

List of Participants

CEA

- | | |
|---------------------------|-------------------------------------|
| 1. SHRI S.K.RAY MOHAPATRA | CHIEF ENGGINEER (PSPM).....in chair |
| 2. SHRI SANJAY JAIN | DIRECTOR (PSPM) |
| 3. SHRI AJITESH KUMAR | DEPUTY DIRECTOR(PSPM) |
| 4. SHRI R.K. TIWARI | DEPUTY DIRECTOR (PSPM) |
| 5. SHRI DHANESH KUMAR | ASSISTANT DIRECTOR (PSPM) |
| 6. SHRI AVINASH PATHAK | ASSISTANT DIRECTOR (PSPM) |
| 7. SHRI YADAV MONOJ KUMAR | ASSISTANT DIRECTOR (PSPM) |

POWERGRID

- | | |
|----------------------|------------|
| 1. SHRI S.K. SHARKAR | GM |
| 2. SHRI A.K. VAISH | CONSULTANT |

JKPDD

- | | |
|-------------------------|----------------------------------|
| 1. SHRI HAMIDULLAH WANI | S.E.(S & O), Circle-II, Srinagar |
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PTCUL

- | | |
|----------------------|----|
| 1. SHRI H.S.HIANKI | SE |
| 2. SHRI RAVI SHARKAR | SE |

NTPC

- | | |
|------------------------|-------------|
| 1. SHRI P.K. YADAV | GM (PP&M) |
| 2. SHRI VS DUBEY | AGM (PPNM) |
| 3. SHRI SUBHASH THAKUR | AGM (PE-E) |
| 4. SHRI SUMIT KUMAR | SR. MANAGER |

NTPC-NKSTPP

- | | |
|----------------------------|----------|
| 1. SHRI AJAY KIMAR AGARWAL | AGM (EE) |
|----------------------------|----------|

THDCIL

- | | |
|--------------------|---------|
| 1. SHRI R.N. SINGH | GM (SP) |
|--------------------|---------|

2. SHRI SANDEEP CHECKER

DGM(SP)

TPTL

1. SHRI B.S. JHA

DIRECTOR

2. SHRI S.K.BHOWMICK

SR.VP

3. SHRI IYAPPAN D

MANAGER

L&TPDL

1. SHRI B. BHATTACHARJEE

HEAD-TECHNICAL

2. SHRI GYANENDRA PRATAP SINGH

DIRECTOR-SBHEP

3. SHRI YASHOBANTA ROUT

ASST. MANAGER