



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

सेवा में,

(संलग्न सूची के अनुसार)

विषय: पतरातू एसटीपीपी (3x800MW) एसोसिएटेड ट्रांसमिशन सिस्टम की प्रगति की समीक्षा कार्यवृत्त।

Subject: Minutes of meeting taken by Chairperson, CEA and Member(PS) I/C & on 13.08.2020 to review the progress of Associated Transmission System of Patratu STPP (3x800MW) -Reg.

महोदय,

पतरातू एसटीपीपी (3x800MW) के एसोसिएटेड ट्रांसमिशन सिस्टम की प्रगति की समीक्षा के लिए अध्यक्ष, के वि प्रा एवं प्रभारी सदस्य (विद्युत प्रणाली) द्वारा 13.08.2020 को ली गई बैठक का कार्यवृत्त संलग्न है।

संलग्नक: यथोपरि।

भवदीय,

(यू एम राव भोगी / U M Rao Bhogi)

निदेशक /Director

प्रति सूचनार्थः

1. Joint Secretary (Trans), Ministry of Power, Shram Shakti Bhawan, New Delhi-110001.
2. Additional Chief Secretary, Dept of Energy, Govt. of Jharkhand, 3rd Floor, SLDC Building, Kusai, Ranchi, Jharkhand- 834002, psec.energy@gmail.com.
3. निदेशक (ट्रांस.), विद्युत मंत्रालय, श्रम शक्ति भवन, रफ़ी मार्ग, नई दिल्ली-110001, transdesk-mop@nic.in
4. सदस्य (विद्युत प्रणाली), केविप्रा के प्रधान निजी सचिव

List of Addressees:

S. No.	Adressess
1.	Managing Director Jharkhand Urja Sancharan Nigam Limited JUSNL Building, Kusai Colony, Doranda, Ranchi – 834002, md@jusnl.in
2.	Chairman and Managing Director, NTPC Ltd. NTPC Bhawan, Scope Complex-7, Institutional Area, Lodhi Road, New Delhi-03, cmd@ntpc.co.in , subhashthakur@ntpc.co.in
3.	Chairman and Managing Director POWERGRID Saudamini, Plot No.2, Sector 29, Near IFFCO Chowk, Gurgaon (Haryana) – 122001 cmd@powergridindia.com
4.	मुख्य अभियन्ता (TPM), CEA, cea-tmd@nic.in
5.	मुख्य अभियन्ता (PSPA-II), CEA, cea-pspa2@gov.in
6.	CGM (CTU-Pig), ashok@powergridindia.com

Minutes of meeting taken by Chairperson, CEA & Member(PS) I/C on 13.08.2020 to review the progress of Associated Transmission System of Patratu STPP (3x800MW)

List of participants is enclosed at **Annexure-I**.

1. Chairperson, CEA and Member(PS) I/C welcomed all the participants and requested Chief Engineer (PSPM) to take up the agenda of the meeting.
2. Chief Engineer (PSPM), CEA stated that Patratu STPP (3x800MW) is being implemented by Patratu Vidyut Utpadan Nigam Limited (PVUN Limited) (JV of NTPC Ltd & Jharkhand Bidyut Vitran Nigam Ltd). As per the information provided by NTPC, Unit -1, Unit -2 & Unit -3 of Patratu STPP are expected to be commissioned by Mar'2022, Sep'2022 & Mar'2023 respectively. He further informed that the following Transmission system for evacuation of power from Patratu STPP is being implemented by Jharkhand Urja Sancharan Nigam Limited(JUSNL) which was approved in the 1st meeting of ERSCT held on 16-07-2018:
 - i. Patratu STPP(PVUNL) - Patratu (JUSNL) 400kV (Quad) D/C line.
 - ii. Patratu (PVUNL) - Chandil 400kV (Quad) D/C line
 - iii. Chandil New - Chaibasa (PG) 400kV D/C line
 - iv. Patratu (PVUNL) - Koderma 400kV (Quad) D/C line

As per the latest status provided by JUSNL to CEA, above transmission system is under bidding stage and work is yet to be awarded under TBCB route.

3. Chairperson, CEA and Member (PS) I/C stated that since the construction work of the above lines is yet to start, it is a matter of serious concern that the Associated Transmission System (ATS) may not be completed to match with the commissioning schedule of the Patratu STPP(3x800MW). Therefore, this huge capital cost project would face power evacuation bottleneck due to non-availability of the associated transmission system.
4. Chief Engineer (PSPM), CEA requested representatives of NTPC Ltd to provide the latest status of Patratu STPP. The representative of NTPC Ltd informed that due to spread of Covid-19 pandemic, commissioning of Unit #1 may get delayed by 2 months i.e. May'2022 and other two units are likely to be commissioned by Sep'22 and March'23. NTPC stated that connectivity for startup power is required for Patratu STPP by Jul'2021 on an urgent basis.
5. Representative of NTPC/PVUNL expressed its concern about delay in award of start-up power line under state funding (Patratu (PVUNL) – Patratu(JUSNL) – 7.5 KM by STU) as it will hamper the testing and commissioning schedule of the project. He also expressed its serious concern about power evacuation from 3x800 MW units due to delay in start of construction work on above lines. This delay will

lead to idling of power plant (3x800 MW) and ultimately will lead to stranding of the asset. This will also result in substantial financial loss to Govt. of Jharkhand as it is also one of the promoters of PVUNL [JV Company of NTPC Ltd & JBVNL (GoJ)].

6. The Managing Director, JUSNL informed that the transmission system listed at s.no. 2(i) above, i.e Patratu STPP (PVUNL) – Patratu (JUSNL) 400 kV (Quad) D/C line has been planned for implementation by JUSNL a Jharkhand State Transmission Utility(STU) and State sanction for this line is expected very soon. After getting the State sanction, JUSNL shall be able to commission this line within 15 to 18 months as line length is only about 7.5 KM. The other three lines listed at S.No 2(ii), 2(iii) & 2(iv) above, has been planned for implementation under PPP mode and the approval in this regard is pending at Jharkhand State Administration.

Further, considering the commissioning schedule of 1st unit of Patratu STPP as March '2022, he proposed that above three lines may be taken out from PPP mode and may be implemented by JUSNL to match with the commissioning schedule of PVUNL. He further mentioned that in this regard a meeting with Chief Minister of Jharkhand in presence of Chief Secretary was held, wherein in principal approval for construction of above three lines by STU was agreed. However, due to the some administrative/procedural reasons, award for above works has been delayed. He also requested CEA that the issue may be taken up with State Govt. of Jharkhand through Ministry of Power at the earliest.

7. Chief Engineer(PSPA-II), CEA stated that Patratu (PVUNL) – Patratu (JUSNL) 400kV D/c (Quad) line may be taken up initially on priority. The Patratu(JUSNL) – Mandar-Ranchi (New) and Patratu(JUSNL) – Latehar – Chandwa 400kV D/c lines would help in evacuation of power from two units of PVUNL.
8. Representative of CTU stated that Patratu (PVUNL) – Patratu (JUSNL) 400kV D/c (Quad) line may be taken up initially on priority as Patratu 400kV S/s along with Patratu – Ranchi (New) and Patratu – Latehar – Chandwa 400kV D/c lines, would help in evacuation of power from two units of PVUNL. Though these lines are being implemented by POWERGRID as consultancy project for JUSNL, support of Jharkhand administration and JUSNL for expeditious Forest/RoW clearance and timely fund disbursement is required for commissioning of these systems prior to commissioning of 1st & 2nd unit of Patratu STPP. He further stated that for reliable evacuation of power from 3rd unit, PVUNL – Chandil – Chaibasa 400kV D/c (Quad) line along-with 400/220kV S/s at Chandil may be taken up parallelly.

Further, he stated that Patratu- Koderma 400kV (Quad) D/C line acts like radial, as the onward connecting line to Koderma S/s would take some time to commission.

9. Chief Engineer(PSPA-II), CEA suggested that for expeditious approvals by Jharkhand Government for the ATS project, following transmission system may be uploaded in PMG portal through Ministry of Power.

a) Patratu(PVUNL) – Patratu (JUSNL) 400kV (Quad) D/C line

- b) Patratu(PVUNL) – Chandil 400kV (Quad) D/C line
 - c) Chandil New – Chaibasa (POWERGRID) 400kV (Quad) D/C line
 - d) Chandil 400/220kV substation along with downstream 220kV lines
- 10.** Representative of NTPC/PVUNL emphasized that for evacuation of balance 15% unallocated power, a direct connectivity to nearest ISTS (preferably PGCIL Namkum or PGCIL Bero) is required as levy of both ISTS and Intrastate Transmission charges would make PUVNL power costlier for other beneficiaries.
- 11.** CGM (CTU-Plg) stated that as per clause 1.4 of Detailed Procedure of CERC Connectivity Regulations, 2009, the generator already connected to grid (regional or state grid) or for which Connectivity is already granted, shall not be allowed to apply for additional connectivity for the same capacity.
- 12.** CE (PSP&A-II), CEA stated that dual connectivity (with both State and ISTS) would result into technical as well as commercial implications. For exchange of power with ISTS as required by NTPC for evacuation of 15 % unallocated capacity, the system has been planned in such a way that the evacuation lines are mostly terminating at ISTS lines. He explained that 4 nos. of ISTS Substations viz. Ranchi-New, Chandwa, Chaibasa and Dhanbad are existing/already under construction in Jharkhand State and these ISTS Substations have also been planned to be interconnected with the already approved intra-state perspective plan of JUSNL. This planned system, therefore, would be sufficient for transfer of power to other beneficiaries outside Jharkhand, in case JUSNL is unable to draw entire power from PVUNL.
- 13.** Representative of JUSNL stated that 85% of power from Patratu STPP is allocated to Jharkhand State and the state would consume the power, as the PUVNL power is cheap and DVC power (which the Jharkhand is using at present) is costly. Additional ISTS network would cause increase in Transmission charges, therefore Jharkhand will not agree for that proposal.
- 14.** After further deliberations, the following were decided:
- i) PSPM Division, CEA will take up the matter with MoP for putting the following transmission elements in PRAGATI portal to expedite the construction of transmission system for the evacuation of power from Patratu STPP (3x800 MW).
 - a) Patratu(PVUNL) – Patratu (JUSNL) 400kV (Quad) D/C line.
 - b) Patratu(PVUNL) – Chandil 400kV (Quad) D/C line.
 - c) Chandil New – Chaibasa (POWERGRID) 400kV (Quad) D/C line.
 - d) Chandil 400/220kV substation along with downstream 220kV lines.
 - ii) JUSNL to expedite the construction of Patratu(PVUNL) - Patratu(JUSNL) 400

kV (Quad) D/C, (7.5 km length) line on priority basis so that PVUNL is also able to draw the startup power by July,2021.

- iii) JUSNL to also expedite the construction of Patratu(JUSNL) – Ranchi (New) and Patratu(JUSNL) – Latehar – Chandwa 400kV D/c lines which they are implementing through PGCIL as consultancy projects.

The Meeting ended with thanks to the chair.

List of Participants

CEA

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| 1. Shri PS Mhaske | Chairperson, CEA and Member(PS) I/C – In Chair |
| 2. Shri Pardeep Jindal | Chief Engineer (PSPA-II) |
| 3. Shri VK Singh | Chief Engineer (PSPM) |
| 4. Shri B S Bairwa | Director(PSPA-II) |
| 5. Shri UM Rao Bhogi | Director (PSPM) |
| 6. Shri RK Tiwari | Dy. Director (PSPM) |
| 7. Shri Rajesh | Assistant Director (PSPM) |

POWERGRID / CTU

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| 1. Shri Ashok Pal | CGM (Plg) |
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NTPC Ltd.

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| 1. Shri Ujjwal Kanti Bhattacharya | ED(Project) |
| 2. Shri Sudarshan Chakraborty | CEO Patratu |
| 3. Shri Vinay Kumar | ED(Engg.) |
| 4. Shri Subhash Thakur | AGM(PE-Elect) |
| 5. Shri Rajesh Jain | AGM(Commercial) |
| 6. Shri Tushar Kumar | AGM(EED), Patratu |
| 7. Shri Antim Kumar Jaiswal | DGM(PP&M) |

JUSNL

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|--------------------|---------------------|
| 1. Shri KK Verma | Managing Director |
| 2. Shri Atul Kumar | Director (Projects) |