



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: टीबीसीबी योजनाओं के तहत डी.एम.टी.सी.एल. के दरभंगा सबस्टेशन में अलीपुरद्वार ट्रांसमिशन लिमिटेड और पावरग्रिड मिथिलांचल ट्रांसमिशन लिमिटेड द्वारा 400 के.वी. बेज के निर्माण से संबंधित मुद्दों की समीक्षा के लिए सी.ई.ए. में 02/11/2018 को आयोजित बैठक का कार्यवृत्त |

Subject: Minutes of meeting held on 02/11/2018 in CEA to review issues related to construction of 400 kV bays by M/s Alipurduar Transmission Ltd. and M/s POWERGRID Mithilanchal Transmission Limited (PMTL) in Darbhanga substation of M/s DMTCL under TBCB schemes.

महोदय,

A meeting was taken by Chief Engineer (PSPM), CEA on 02/11/2018 to discuss following issues:

Sl. No.	Issues
1.	Finalization of layout of 400 kV bays of M/s PMTL (in existing Darbhanga s/s of M/s DMTCL) and co-ordination of busbar protection system.
2.	Arrangement of auxiliary AC & DC supply for 400 kV bays of M/s ATL & M/s PMTL (in existing Darbhanga s/s of M/s DMTCL).

Minutes of above meeting are attached at Annex-I.

संलग्नक: उपरोक्त।

भवदीय,

(संजय जैन)

निदेशक

सूचनार्थ प्रति:

1. संयुक्त सचिव (ट्रांस), विद्युत् मंत्रालय, श्रम शक्ति भवन, रफी मार्ग, नई दिल्ली -110001
2. मुख्य अभियंता (पी.एस.पी. एंड ऐ. -I), के. वि. प्रा.
3. मुख्य अभियंता (पी.एस ई. एंड टी. डी), के. वि. प्रा.
4. सदस्य (वि. प्रा.), के. वि. प्रा. के विशेष सहायक

List of Addresses

S.No.	Name of Utility	Address	Ph./FAX/ Email ID
1.1	PGCIL / CTU	Sh. I S Jha, CMD Power Grid Corporation of India Ltd. Saudamini, Plot No.2, Sector 29, Near IFFCO Chowk, Gurgaon (Haryana) - 122001, INDIA	Ph.: 0124-2571760, FAX: 0124-2571762 Email: cmd@powergridindia.com subir@powergridindia.com ashok@powergridindia.com
2.	M/s POWERGRID Mithilanchal Transmission Limited (PMTL) (Subsidiary of POWERGRID)	CEO, ERSS XXI Transmission Limited Power Grid Corporation of India Ltd. Saudamini, Plot No.2, Sector 29, Near IFFCO Chowk, Gurgaon (Haryana) - 122001, INDIA	singhal@powergridindia.com m poonam@powergridindia.com m
3.	Darbhangha Motihari Trans. Company Ltd	Sr. Vice President Darbhangha Motihari Trans. Company Ltd (A subsidiary of Essel Infraprojects Ltd) 5th Floor, 18 Ramnath house Community Center, Near Green Park Metro Station Yusuf Sarai, New Delhi-110049.	Tel: 11-46001198 Fax: 11-46001185 Mobile: 9953200475 Email:- amit.kumar1@infra.esselgroup.com
4.	REC Transmission Projects Company Limited	Chief Executive Officer REC Transmission Projects Company Limited ECE House, 3rd Floor, Annexe-II 28-A, K G Marg, New Delhi-110001	Tel: 011-41020101 Fax: 011-24360644 bhupender_g@yahoo.com vivekagarwal.rec@gmail.com m Phone 011 47964796 (4 Lines) Fax. 011 47964747
5.	Alipurduar Transmission Ltd.	Sh. Saurabh Gupta, Director Alipurduar Transmission Ltd. (A subsidiary of Kalpataru Power Transmission Ltd.) 7th Floor, Kalpataru Synergy, Opp- Grand Hyatt, Vakola, Santa Cruz (E), Mumbai - 400 055, Maharashtra	Email: saurabh.gupta@kalpatarupower.com kausik.Chowdhuri@kalpatarupower.com ajay.tripathi@kalpatarupower.com

Minutes of meeting held on 02/11/2018 in CEA to review issues related to construction of 400 kV bays by M/s Alipurduar Transmission Ltd.(ATL) and M/s POWERGRID Mithilanchal Transmission Limited (PMTL) in Darbhanga substation of M/s DMTCL under TBCB schemes.

List of participants is enclosed at Annexure-II. No representative from REC and CTU was present in the meeting.

At the outset, Chief Engineer (PSPM) welcomed all participants and after a brief introduction he initiated the discussion. He stated that execution of 2 nos. of 400 kV line bays along with 80 MVAR switchable line reactors are being implemented by M/s Alipurduar Transmission Limited (ATL) for termination of their Darbhanga-Kishanganj 400 kV D/C line in existing 400/ 220kV substation at Darbhanga of M/s DMTCL covered under "Transmission system strengthening in Indian system for transfer of power from new HEP's in Bhutan". Similarly, the execution of 2 nos. of 400 kV bays in the same S/S would be implemented by M/s PMTL for termination of their Darbhanga-Sitamardi 400 kV D/C line covered under "Eastern Region Strengthening Scheme XXI (ERSS-XXI)", after finalization of layout. The purpose of the meeting is to discuss and resolve the issues relating to layout plan including future bays and AC & DC auxiliary supply system for the above mentioned substation. Brief of discussion held during the meeting are as under:

(a) Finalization of layout plan for two (2) Nos. of 400 kV bays to be executed by M/s PMTL (in existing 4090/220kV Darbhanga substation of DMTCL) and co-ordination of busbar protection system.

Representative of M/s DMTCL informed that tentative layout for 400 kV bays was submitted by PMTL without indicating location of future ICT & future bays at 400 kV and 220 kV levels. Hence, based on request of PMTL, a tentative layout plan indicating future provision was given to them for execution of 400 kV bays.

The representative of M/s PMTL informed that in the Single Line Diagram (SLD) of RFP document, the future line bays (including bays of 220 kV bays) and Bus Reactors were shown. In the enclosed layout drawing, no future line bays and transformers were indicated. Accordingly, Gas Insulated Bus duct (GIB) quantity was accessed by PMTL. However, with the present layout proposed by DMTCL, length of GIB would unnecessarily increase much beyond the quantity envisaged at the bidding stage and this would have significant impact on overall cost. In the layout, provision of number of gantries have been made for 220 kV future bays. The same can be optimised considering the space availability and cables can be terminated directly on 220 kV towers. He also proposed for termination of 400 kV GIS bays in double decker configuration to optimize the space and to reduce the length of GIB.

CE (PSPM) stated that layout provided by DMTCL indicates 8 nos. of 400 kV future bays in place of 7 nos. future bays as mentioned in TSA. This needs to be corrected. He further suggested that concerned officer of PMTL may visit the substation site of DMTCL and revise the layout plan considering feasibility of implementation of future bays (400kV & 220kV) including ICTs. He also suggested that the busbar protection system for the substation (at 440kV & 220kV level) should also be properly co-ordinated.

M/s PMTL and M/s DMTCL agreed to discuss and finalize the layout drawing. All three TPS also agreed for co-ordination of busbar protection system.

(b) Arrangement for auxiliary AC&DC supply for augmentation of 400 kV bays by ATL & M/s PMTL in existing 400/220kV substation at Darbhanga of DMTCL

The representative of M/s ATL informed that issue of Auxiliary AC supply from DMTCL facility for augmentation of 400 kV bays have not been resolved yet even after number of meetings held in CEA in this regard. Meanwhile, M/s ATL have arranged one source of AC supply from North Bihar Power Transmission Company (NBPTC). However, for alternate source of Auxiliary AC supply, they are still pursuing with M/s DMTCL for extension of supply from their AC distribution board. M/s ATL informed that separate DC battery & associated charger and DC Distribution board have already been procured by them.

The representative of M/s DMTCL informed that supply from tertiary of ICT could not be extended in absence of any modalities of power sharing from tertiary and metering arrangement for billing and sharing of consumption of electricity.

The representative of M/s PMTL informed that limited space is available in Darbhanga S/S and the sharing of AC & DC supply system available with M/s DMTCL should be explored instead of having separate arrangement for AC & DC supply by each Transmission Service Provider (TSP) in the substation. Further, DMTCL may explore the possibility of carrying out the O&M for all the bays in their sub-station (including bays constructed by other two TSP) for smooth and trouble free operation of sub-station. M/s DMTCL can also consider inclusion of charges towards the consumption of electricity in their O&M cost. M/s DMTCL agreed to consider above suggestion.

On enquiry by CE(PSPM) about the available DC battery capacity in the substation, M/s DMTCL informed that 600AH (220V) is the capacity of the battery. The capacity was considered to be adequate to meet the DC requirement of the substation including future bays. CE (PSPM) suggested that M/s DMTCL should extend AC & DC supply from AC&DC Distribution boards as per the requirement of M/s ATL & PMTL and cost associated with common facilities in a substation, which is a national asset, should be shared by TSPs.

After detail deliberations following was agreed:

- a) M/s PMTL and M/s DMTCL would discuss and finalize the layout drawing clearly indicating the arrangement for future bays (400kV and 220kV) including ICTs and reactors considering feasibility of implementation.
- b) The busbar protection system for the substation (at 440kV & 220kV level) should also be properly co-ordinated by the TSPs (M/s DMTCL, M/s ATL & M/s PMTL).
- c) M/s DMTCL would extend AC supply from their AC distribution board to M/s ATL and AC&DC supply from their AC & DC distribution board to M/s PMTL as per their requirement. Accordingly, M/s ATL would install AC Distribution board and M/s PMTL would install AC & DC Distribution board including required protection system.
- d) The mechanism of sharing of cost associated with AC & DC supply system and consumption of electricity may be mutually decided by M/s ATL, M/s DMTCL and M/s PMTL.

Meeting ends with Thanks to chair.

Minutes of meeting held on 02/11/2018 in CEA to review issues related to construction of 400 kV bays by M/s Alipurduar Transmission Ltd.(ATL) and M/s POWERGRID Mithilanchal Transmission Limited (PMTL) in Darbhanga substation of M/s DMTCL under TBCB schemes.

List of Participants

CEA

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| 1. SHRI S.K.RAY MOHAPATRA | CHIEF ENGINEER (PSPM)...IN CHAIR |
| 2. SHRI RAVINDRA GUPTA | CHIEF ENGINEER (PSP&PA-I) |
| 3. SHRI Y K SWARNKAR | DIRECTOR (PSE&TD) |
| 4. SHRI SANJAY JAIN | DIRECTOR (PSPM) |
| 5. SHRI AJITESH KUMAR | DEPUTY DIRECTOR (PSPM) |
| 6. SHRI DHANESH KUMAR | ASSISTANT DIRECTOR (PSPM) |
| 7. SHRI YADAV MANOJ KUMAR | ASSISTANT DIRECTOR (PSPM) |

PMTL

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| 8. SHRI RAJIL SRIVASTAVA | SR.GM |
| 9. SMT. POONAM VARSHEY | SR. GM |
| 10. SHRI ABHAY KUMAR | GM |
| 11. SHRI PRASOON | DY. . MGR |

DMTCL

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| 12. SHRI NIMISH SHETH | VP |
| 13. SHRI AMIT DIXIT | AVP |
| 14. SHRI ANIL YADAV | SR.MANAGER |
| 15. SHRI NEERAJ VERMA | MANAGER |

KPTL

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| 16. SHRI ATUL DUGGAL | MANAGER |
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