File No.CEA-PS-17-11(16)/1/2021-PCD Division

सत्यमेव जयते
भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division
****

Subject: - Minutes of the 110th Central Level Power and Telecommunication Coordination Committee (CLPTCC) Meeting.

The minutes of 110th Central Level Power and Telecommunication Coordination Committee (CLPTCC) meeting held on 23rd December, 2020 is enclosed herewith for kind information and necessary actions by all concerned. The minutes of the meeting may also be downloaded from https://cea.nic.in/ptcc/?lang=en

The next CLPTCC meeting is to be organized by BSNL. Therefore, BSNL is requested to take necessary action in this regard.

This issues with the approval of Chairman, CLPTCC & Chief Engineer, PCD Division, CEA.

12.03.21
Director

To,
The Members of Central PTCC
(As per attached list)

Copy for kind information to: -
Shri T V Venkataram, Co-Chairman, CLPTCC & Chief General Manager, BSNL, QA& Inspection Circle, Jabalpur.

File No.CEA-PS-17-11(16)/1/2021-PCD Division

Central Level Power and Telecommunication Coordination Committee (CLPTCC)

Minutes of Meeting

Meeting Number:	110th
Meeting date & time:	23rd December, 2020 at 11:00 Hrs
Mode:	Online platform at Microsoft Team
Chief Guest:	Shri P C Kureel, Principal Chief Engineer, CEA
Committee Chair:	Shri Upendra Kumar, Chief Engineer, PCD Division, CEA
Committee Co-chair:	Shri T V Venkataram, CGM, QA& Inspection Circle, Jabalpur, BSNL
List of participants:	Enclosed at Annexure - I

Chairman, CLPTCC extended a cordial welcome to all the participants and thanked Shri PC Kureel, Principal Chief Engineer, CEA for readily accepting the invitation to be present as Chief Guest for the meeting. He then invited Shri Kureel for his opening remark and share his aspiration from the Committee based on his vast experience in the power sector.

Shri Kureel informed the Committee that out of 175 GW RE target of GoI by 2022, a capacity of 90.4 GW has been added till date. To complement this generation, the matching transmission network would have to come resulting in more PTCC cases. In this regard, he urged the power utilities to submit complete and accurate proposal for faster clearance. He also informed the Committee that the Central Electricity Authority (Technical Standards for Communication System in Power System Operations) Regulations have been notified in March, 2020 and the Manual of Communication Planning in Power System Operation is under preparation. He further informed the Committee that a Standing Committee on Communication System Planning in Power Sector has been constituted to prepare a short-term plan and perspective plan for communication system for power sector and take its periodic review and to formulate norms for operation and maintenance of communication network among other things. In the end, he requested the participating organizations to come up with solutions and ideas so that a reliable and robust power communication system could be developed for the power sector.

Chairman, CLPTCC then invited Shri T V Venkataram, Co-Chairman, CLPTCC & Chief General Manager, BSNL to share his views with the participants.

After welcoming the participants, Shri T V Venkataram told that during the current COVID pandemic, the Power & Telecom (P&T) sectors played an equally important role. As the country is looking at a mammoth figure for power sector growth; the P&T network will grow simultaneously. He emphasized that the Railways and Defense sectors are also growing at a fast rate. Hence, the Central & State Level PTCC have an important role to play. He then wished that the year 2021 be a good year for everyone.

Chairman, CLPTCC then invited Shri Prateek Srivastava, Assistant Director, CEA to take up the agenda items.

A. Confirmation of minutes of the 109th CLPTCC meeting

The Minutes of the 109th Central PTCC meeting held on 24th January, 2020 at Jaisalmer were prepared and circulated to the Members of the Committee by CEA. As there were no comments from the Committee Members, the Minutes of the 109th CLPTCC meeting were considered as confirmed.

B. Follow-up action on decisions taken in the 109th CLPTCC meeting

B.1. Computerization of PTCC Route Approval Process and authorization to private power utilities for online submission of PTCC proposals

In 109th CLPTCC meeting, BSNL informed that migration of web portal to high-capacity servers installed at data center, Bengaluru, has been completed and flowcharts for PTCC process have been prepared. It was decided to hold a meeting between CEA and BSNL at New Delhi to discuss and finalize the flowcharts.

In 110th CLPTCC meeting, CEA informed that a virtual meeting was held between CEA and BSNL officers on 03.11.2020 wherein certain deviations in the flowcharts vis-à-vis PTCC process in PTCC Manual were observed, so the same could not be resolved.

It was decided that CEA and BSNL will work together to resolve the deviations and finalize the flowcharts. The finalized flowcharts will be shared with the Members of the Committee for comments. The work on V2 of the portal will begin on finalization of the flowcharts.

(Action: CEA & BSNL)

B.2. PTCC approval for power Cables

In the 107th CLPTCC meeting, it was proposed to waive-off Induced Voltage (IV) calculations on telecom circuits due to underground power cables of voltage level 33 kV and below due to low induction caused by them. It was decided that power utilities would submit PTCC proposal along with self-certification to telecom authorities and in case of no-objection from telecom authorities within a month, power utilities could charge the power cable. Accordingly, BSNL circulated guidelines vide letter dated 13.03.2019 **[Annexure-B.2(1)].**

In 108th CLPTCC meeting, CEA suggested changes in the guidelines and it was decided that BSNL would issue the revised guidelines. Further, representative from Railway did not agree to waived-off IV calculations for Railway telecom circuits due to safety consideration. Inputs from Defense could not be recorded due to non-representation.

Revised guidelines prepared by BSNL **[Annexure-B.2(2)]** were taken up for discussion in 109th CLPTCC meeting and it was observed that the same were still not aligned with changes suggested by CEA. Thus, it was agreed in 109th CLPTCC meeting that CEA would prepare the guidelines for self-certification of PTCC cases for underground power cable of voltage level 33 kV and below.

In the 110th CLPTCC meeting, CEA informed that while preparing the guidelines, it had following observations:

a) The number of UG power cables of voltage level upto 33 kV being laid is high and the time taken for laying of these cables is comparatively less. Therefore, their PTCC clearance process needs to be completed expeditiously.
b) The induction due to such power cables will be less due to double screening effect of power cable and telecom cable as well as due to low value of SLG fault current.

c) Waiving off IV calculation for BSNL telecom cables alone cannot cut down the time taken in PTCC clearance.

Chairman, CLPTCC briefed the Defense and Railway representatives that in 33 kV and below power cables, the protection against IV would be not be required due to the following reasons:

- Lower fault current
- Lesser chances of SLG fault
- Double screening effect
- Better insulation
- Shorter length of such cables
- Absence of auto-reclosing feature

Considering above and GoI resolution for Ease of Doing Business (EoDB), CEA urged Railway and Defense to reconsider waiving off IV calculations on their respective circuits in this case. If Railway and Defense agree to this proposition, CEA will issue guidelines regarding PTCC clearance of UG power cables of voltage level upto 33 kV on self-certification basis.

Defense representative replied that the matter will be taken up with the higher authorities. Railway representative requested that a formal proposal may be sent to the Railway Board in this regard. The matter would then be taken up with Signaling Division of Railways.

It was decided that CEA will send a formal proposal regarding waiving off of IV calculations for Defense and Railway telecom circuits in case of 33 kV and below UG power cables. In case there are further reservations, a separate meeting between Defense, Railway, CEA and BSNL will be convened to deliberate on the matter.

(Action: CEA)

B.3. Revision of PTCC Manual – Agenda by CEA

In the 109th CLPTCC meeting, it was brought up by CEA that last revision of PTCC Manual was done in 2010 and since then many decisions by the CLPTCC have been taken. Further, there has been adoption of new technologies in generation, transmission, distribution and use of electricity resulting in faster clearance of the faults. Therefore, there is a need to revise the PTCC manual. CEA proposed to form a Committee for revising the Manual. All Members of the forum agreed to the proposal. It was decided that CEA would form a Committee with Members from CEA, BSNL, Railway, Defense and Power Utilities.

In the 110th Meeting, CLPTCC forum was informed by CEA that the Committee has been constituted [**Annexure B.3(1)**]. The draft for revised PTCC Manual is being prepared by CEA and the same will be circulated among the Committee Members for comments. CEA also requested Railway to provide inputs on Appendix XVII of Chapter-1 (Pages 167-169) of PTCC Manual 2010 [**Annexure B.3(2)**] which has details of different types of block instruments, so that the same can be updated in revised Manual.

It was decided that Railways will provide inputs on Appendix XVII of Chapter-1 (Pages 167-169) of PTCC Manual 2010 and CEA will share the draft of revised PTCC Manual with Committee Members for deliberations and finalization.

(Action: CEA & Railway)

B.4. Clarification on safe limit of IV for South Western Railway (SWR) telecom circuits- agenda by KPTCL

In the 109th CLPTCC meeting, it was brought up by KPTCL that SWR had withdrawn its NOC for 220 kV D/C LILO lines on M/C towers from the existing 220 kV Ghataprabha - Chikkodi D/C line to proposed 220/110 kV S/S at Kabbur (Mugalkhod) on account of absence of guidelines on safe limit of IV for working of Universal Fail Safe Block Instruments and Solid State Proving Axle Counter (SSBPAC) and protective devices to protect them. KPTCL had requested SWR for clarification on safe limit of induced voltage on SWR network for issuing NOC, however, matter was not clarified by the SWR. It was decided that CEA would take up the matter with Railway Board.

CEA had written a letter to Director (Tele), Railway Board **[Annexure B.4(1)]**. KPTCL informed prior to the 110th meeting that SWR had issued a conditional NOC to KPTCL for the above line. **[Annexure B.4(2)]**.

In the 110th CLPTCC meeting, the Railway representative informed the Committee that the matter has been referred to the Research Designs and Standards Organisation (RDSO) and inputs from various vendors are being taken. CEA added that if Railway provides the information sought in agenda item B.3 above, then issues like agenda item B.4 could be avoided.

It was decided that Railways will provide the exhaustive information sought in agenda item B.3 at the earliest, covering all instruments currently being used in Railway signaling.

(Action: Railways)

B.5. Agenda items from MSETCL

According to action taken submitted by MSETCL on the MoM of 109th CLPTCC, following agenda items remain open:

1. Login credentials for online PTCC portal: In 110th CLPTCC meeting, MSETCL requested BSNL to share the login credentials for PTCC portal to which BSNL has agreed.

2. Provisional PTCC RAC format in line with final PTCC RAC: MSETCL informed that Provisional PTCC RAC issued by BSNL for "220kV D/C line from Shirsuphal to proposed 220 kV Shirsai TSS" is not in accordance with Committee's decision as per MoM of 109th CLPTCC meeting wherein it was decided that provisional RAC shall have same format as final RAC. CEA advised BSNL to instruct its zonal offices to issue provisional RAC in same format as the final RAC.

It was decided that BSNL will provide login credentials to MSETCL and will ensure that provisional RAC is issued in same format as final RAC.

(Action: BSNL)

C. New Agenda

C.1. Agenda Items from BSNL

1. Waiving off of PTCC clearance for armored OFC cable for BSNL: BSNL had sought opinion from CEA on requirement of PTCC clearance for laying of armored OFC cable in BSNL U/G OFC network **[Annexure C.1(1)]**. CEA had replied that Chapter 3 Section C of PTCC Manual 2010 provides the procedure for the same and, therefore, BSNL may submit the PTCC proposal in accordance with the manual **[CEA letter enclosed at Annexure C.1(2)]**. BSNL requested that PTCC clearance in case of laying of armored

OFC cable in BSNL U/G OFC network may be waived off since other telecom authorities (Railways for example) are not taking PTCC clearance.

Co-Chairman, CLPTCC, informed the forum that with India's growing demand for internet connectivity, BSNL has to lay the armored OFC cables in a large quantity in the near future. He urged the forum to decide upon the issue from the EoDB viewpoint. Chairman, CLPTCC replied that the armor of OFC has high resistivity and in case of close proximity with power lines and substations, there may be cases of IV crossing safe limits. He suggested that present PTCC Manual guidelines should prevail until some conclusive study is conducted to ascertain safety of armored OFC from induction. Co-Chairman, CLPTCC, agreed with the suggestion.

It was decided that telecom authorities will submit PTCC proposals for laying/establishment of telecom line/Assets in accordance with Chapter 3 Section C of PTCC Manual 2010.

2. Non-submission of PTCC proposals by Uttarakhand and Delhi: BSNL has informed that PTCC proposals for transmission lines of 132 kV and below are not being submitted by PTCUL and DTL. BSNL requested that a letter to SLDC may be written by Chief Engineer, CEA..

In the 110th CLPTCC meeting, CEA informed that a letter in this regard has been sent to all LDCs **[Annexure C.1(3)]**. CLPTCC requested all Central and State Power Utilities to strictly adhere to the PTCC Route Approval process. It was also requested that BSNL may look into it as to whether the same is being followed or not.

The issue of commissioning of telecom lines without PTCC approval was also brought up by the Secretary (Power), CLPTCC. Telecom authorities were asked to provide details of appropriate authorities that give commissioning permission for their telecom lines, in the same line as SLDCs give charging permission for transmission lines.

(Action: Power utilities & BSNL)

C.2. Agenda by Kerala State Electricity Board Limited (KSEBL)

KSEBL has informed that State Level PTCC meeting for Kerala has not been convened for more than a year. The last meeting was hosted by KSEBL on 25.06.2019 and hence the turn to host the next meeting was with BSNL. KSEBL has drawn attention towards rising number of cases awaiting PTCC clearance and requested CLPTCC to intervene in the matter so that the state level PTCC resumes its normal functioning.

In the 110th CLPTCC meeting, KSEB informed that SLPTCC meeting for the State of Kerala had already been held.

RRVPNL also submitted that it did not have SLPTCC meeting in Rajasthan in the past one year. CLPTCC requested BSNL and state transmission utilities to convene the state level PTCC meetings regularly. Further, CLPTCC requested that States to constitute SLPTCC at the earliest, where SLPTCC is not functional, on the lines of the State of Gujarat.

It was decided that BSNL and STUs will convene the State Level PTCC meetings regularly and States, where SLPTCC is not functional, will constitute SLPTCC at the earliest with intimation to CEA.

(Action: BSNL & STUs)

C.3. Agenda by Rajasthan Rajya Vidyut Prasaran Nigam Ltd (RRVPNL)

1. Online submission of PTCC route Approval cases: PTCC cases are being uploaded on web portal of BSNL. However, after uploading there is no facility of tracing the status. The online process should facilitate transparency and expeditious disposal of application of PTCC route approvals. For tracking at every stage, the Department at whose end application is pending along with date and duration of pendency should be displayed. Also, the details of RAC and EA should be displayed.

In the meeting, RRVPNL was advised to provide its inputs during development of V2 of PTCC portal.

2. Non submission of telecommunication details from Defense: Provisional RAC have validity of 60 days and the applicant has to re-apply for provisional RAC after this period if telecom details are still awaited. RRVPNL requested that requirement of re-applying after 60 days for works of Government agencies like Railways, Metro, National Highways, Power utilities should be waived off.

RRVPNL further requested that after time limit allotted to each Department for providing Telecom details, as per PTCC Manual 2010 and further grace period of one or two months, RAC should be issued and damages occurred if any should be chargeable on delaying agency.

CEA recommended that the request for extension of provisional RAC may be sent to CEA. If CEA ascertains the requirement as urgent, it would recommend BSNL to issue Provisional RAC immediately. As regards to RRVPNL request for issuance of RAC post exhaustion of prescribed time-limit and levying damages on the delaying Department, CEA suggested that the same is outside the jurisdiction of this Forum. The suggestion was agreed by the forum.

It was decided that power utilities will send request for extension of provisional RAC to BSNL through CEA and BSNL will issue extension within time limit as prescribed by CEA.

(Action: Power utilities, BSNL & CEA)

C.4. Agenda by Karnataka Power Transmission Corporation Limited (KPTCL)

KPTCL requested the CLPTCC forum for directing the BSNL authorities i.e. DET (PTCC) Chennai to release RAC as deemed EA, if;

a) No assets exist in EPR zone
b) No protection is recommended.

Currently, EA is being issued by respective Telecom Circle after issuance of RAC by DET (PTCC). This leads to delay in charging of transmission lines. KPTCL proposed that while forwarding the marked topo map, the concerned SSA/District Telecom Officer should communicate whether the assets are in EPR zone. If there are no assets in the EPR zone, RAC should be treated as deemed EA.

After discussion in the 110th CLPTCC meeting, it was decided that while forwarding the marked topo map, BSNL shall mark the telecom assets also including BSNL exchanges within 8 km vicinity of proposed transmission line along with the telecom details. CEA shall verify the EPR zone and intimate to BSNL in case any assets are falling within the EPR zone. In case, there are no assets in EPR zone and no protection is

recommended, instructions shall be written in RAC stating that this is to be treated as "Deemed EA".

(Action: BSNL)

C.5. Agenda by SRTS-II, POWERGRID

PGCIL requested for BSNL for expediting the field marking and confirming the details of assets in EPR zone along with the field report to avoid the same after Route Approval. This will enable the power utilities to take necessary action to improve EPR if any asset is within the range or shift the asset, instead of waiting for RAC.

In the 110th CLPTCC meeting, this agenda item was taken while discussing agenda item C.4.

D. Pending follow-up action on decisions taken in 109th CLPTCC meeting

D.1. Charging of transmission lines without PTCC Route Approval by PTCUL

In 109th CLPTCC meeting, BSNL informed that for 2 cases (below 132 kV) of PTCUL are pending due to want of NOC from Railways and 1 case (above 132 kV) is pending at CEA for IV calculation. However, due to no representation from Railway and PTCUL the item was not discussed.

In 110th CLPTCC meeting, BSNL DE (PTCC), NZ informed that two cases (132 kV) and 1 case (220 kV) is still pending due to Railway NOC and that PTCUL has not taken any initiative. Neither any follow-up/action taken report has been received nor any representative from PTCUL has joined the 110th CLPTCC meeting.

It was decided to close this agenda item.

D.2. Details of Nodal officers of Defense for disposal of PTCC cases at nodal level

In the 106th meeting Defense representative informed that seven zones have been identified. Each zone will have a nodal officer. It was informed that Defense has undertaken a project of "Network for Spectrum (NFS)" being implemented by BSNL. This project would realign the existing communication system in Defense sector. It was also assured that after completion of this project, PTCC cases would be disposed of at nodal level without any requirement to go to ground level for marking of Defense telecom details. Defense representative informed that details of nodal officer will be communicated after completion of NFS project.

In the 110th CLPTCC meeting, the Defense representative informed that the details of Nodal Officers will be shared with the Committee by June, 2021. Meanwhile, for expeditious disposal of the cases, contact details of concerned civilian officer will be shared.

It was decided that CEA will share the contact details received from Defense with the Members of the Committee.

(Action: Defense & CEA)

D.3. Long Pending PTCC case of 132 kV from OPTCL Odisha

In the 107th CLPTCC meeting, BSNL raised the issue of long pendency of 132 kV PTCC cases of OPTCL and it was informed that cases are pending due to non-receipt of NOC from East Coast Railway (ECR). In the 108th CLPTCC, Joint Director (Telecom), Railway Board stated that long pending cases will be resolved at the earliest. In the 109th

CLPTCC meeting, there was no representation from Railway. OPTCL informed that ECR is yet to issue NOC. It was decided that OPTCL would furnish the details of PTCC cases pending with railway to CEA and CEA would take up the matter with Railway Board.

In the 110th CLPTCC meeting, OPTCL representative informed that reports are still awaited from Railways. OPTCL further informed that it has already written a letter to CEA to which CEA informed that the same has not been received in the office till date.

It was decided that OPTCL would furnish the details over email to CEA for follow-up with Railway Board.

(Action: CEA & OPTCL)

D.4. Charging of transmission lines by PSTCL without PTCC Route Approval - agenda by BSNL

In the 109th CLPTCC meeting, BSNL informed that PSTCL, Punjab has charged its transmission lines without PTCC approval. Till the commencement of 109th Meeting, 11 cases of 220 kV & above of PSTCL and 8 cases of 66 kV of PSPCL were pending with DE (PTCC), NZ, BSNL, Delhi, since a long time. During the discussion between DE (PTCC), NZ and PSTCL authority regarding long pendency, it had come to the notice that all lines are already charged without obtaining PTCC approval. CLPTCC had suggested PSTCL to apply for post facto PTCC approval.

In the 110th CLPTCC meeting, PSTCL representative informed that the concerned transmission lines are old and thus, PTCC proposals are not available with them. DET (PTCC) NZ, informed that the said PSTCL PTCC proposal files are available in his office and added that PSTCL may take a copy from his office and re-apply.

It was decided that PSTCL and BSNL will coordinate for post-facto PTCC approval of already charged lines of PSTCL and this agenda item shall be closed.

(Action: BSNL & PSTCL)

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Annexure - I

List of participants

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Annexure B.2(1)

कार्यालय मुख्य महाप्रबंधक
गुणवत्ता आश्वासन एवं निरीक्षण परिमंडल
जबलपुर
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भारत संचार निगम लिमिटेड
(भारत सरकार का उपक्रम)
BHARAT SANCHAR NIGAM LIMITED
(A Govt. of India Enterprise)

BSNL 3G))) BSNL LIVE
Faster than your thoughts 2010

No. CGM/QA & I/LP-2015/107TH CLPTCC MEETING/41, Dated at Jabalpur, the 13/03/2019

To

All CGM BSNL Telecom circle,

All Power authority,

Subject: PTCC approval of Power cables of 33KV DC (Double circuit) and below – Guidelines for processing such proposals.
Ref No: Minutes of 107th CLPTCC meeting, held at Hyderabad on 14/12/2018.

Kindly refer to the Minutes of 107th CLPTCC meeting, held at Hyderabad on 14/12/2018. The decision under item no B.12 (Whether PTCC approval is needed for power cables) is reproduced below:

CLPTCC decided that "Power cables are having double shielding. Considering this fact and capacity of the power cable, for all 33KV (Double circuit) and below capacity, Underground power cable proposals, it is sufficient that the Power utilities will forward the self certificate mentioning the name of power cable with route length, along with Railway NoC, EPR values of the new substation and topo map to the concerned Zonal DE (PTCC)/SDE (PTCC) and BSNL SSAs. If no objection or report received from the concerned BSNL SSAs within a month's time, the power utilities can charge the power cable. The date of charging of power cable may be intimated to concerned Zonal DE (PTCC)/SDE (PTCC) and BSNL SSAs by the Power authority".

Keeping in view of above decision, the following guidelines should be followed during processing the PTCC approval of Power cables of 33KV DC (Double circuit) and less capacity:

(1) Concerned Zonal DE (PTCC)/SDE (PTCC) and BSNL SSAs are to be intimated about the laying of any conversion/proposed UG power cable of capacity 33KV DC (Double circuit) and below along with the name of power cable , route length, Railway NoC, EPR values of the new substations and topomap so that telecom authorities can depute their representatives during digging and laying of power cables.

(2) Also a self certificate as given below should be submitted by the concerned Power authority :

I. The Power cables of capacity 33KV DC and less will be laid at a minimum depth of 1.2 meters below the earth surface.

II. The minimum separation between the bottom of telecom cables and power cable will be maintained as 0.6 meter for 33KV Double circuit/ 0.3 meter for 33KV SC (Single circuit) and less as case may be.

III. Power cable will be painted in RED or a mark of spark in "red" will be made available on sheath of the cable for identification similar to the marking of the telephone handset emblem on outer sheath of telecom cable.

IV. For identification of UG power cable, route markers will be provided.

V. Non existence of any BSNL assets within the EPR zone of the proposed Substation will be ensured before energisation of the power cable in co-ordination with BSNL Authorities.

VI. In case of occurance of any damages to BSNL Personal or assets, after due energisation of the power cable, power authorities are liable to the charged for the compensation towards such damages to BSNL assets.

This is issued with approval of competent authority.

13/3/19

Asstt.General.Manager (Technical)
Mobile No. 9425803008

Copy to :

(1) All PGMs / GM , QA & Inspection circle for information pl ,

(2) Chief Engineer, PCD Division & Co-chairman of 107th CLPTCC meeting, Central Electricity Authority, New Delhi for information pl ,

(3) Director, PCD Division & Secretary (Power side) CLPTCC, Central Electricity Authority, New Delhi for information & with request to circulate this letter to all power utilities, and

(4) All Zonal DE (PTCC), BSNL QA &Inspection circle for information & for circulation to all BSNL telecom circle and all State power company (Transmission & DISCOM) and Power Grid corporation, under their jurisdiction.

Annexure B.2(2)

कार्यालय मुख्य महाप्रबंधक
गुणवत्ता आश्वासन एवं निरीक्षण परिमंडल
जबलपुर
Technical Section,
O/o The Chief General Manager,
QA & Inspection circle,
3RD Floor, Sanchar Vikas Bhawan,
Residency road, Jabalpur-482001.
Tel : 0761-2628525,
E-mail ID : agmsw@rediffmail.com

भारत संचार निगम लिमिटेड
BHARAT SANCHAR NIGAM LIMITED
(A Govt. of India Enterprise)

BSNL 3G)))) BSNL LIVE 2019

No. CGM/QA & I/LP-2015/109TH CLPTCC MEETING/4, Dated at Jabalpur, the 23/11/2019

To

All CGM BSNL Telecom circle,

All Power authority,

Subject: PTCC approval of Power cables of 33KV DC (Double circuit) and below – Guidelines for processing such proposals.

Ref No: (1) Minutes of 107th CLPTCC meeting, held at Hyderabad on 14/12/2018.
(2) Minutes of 108th CLPTCC meeting, held at Guwahati on 10/06/2019.

Kindly refer to the Minutes of 107th CLPTCC meeting, held at Hyderabad on 14/12/2018. The decision under item no B.12 (Whether PTCC approval is needed for power cables) is reproduced below:

CLPTCC decided that "Power cables are having double shielding. Considering this fact and capacity of the power cable, for all 33KV (Double circuit) and below capacity, Underground power cable proposals, it is sufficient that the Power utilities will forward the self certificate mentioning the name of power cable with route length, along with Railway NoC, EPR values of the new substation and topo map to the concerned Zonal DE (PTCC)/SDE (PTCC) and BSNL SSAs. If no objection or report received from the concerned BSNL SSAs within a month's time, the power utilities can charge the power cable. The date of charging of power cable may be intimated to concerned Zonal DE (PTCC)/SDE (PTCC) and BSNL SSAs by the Power authority".

Kindly refer to the Minutes of 108th CLPTCC meeting, held at Guwahati on 10/06/2019. The decision under item no B.6 (Whether PTCC approval is needed for power cables) is reproduced below:

(i) Defence and Railways NoC cannot waived off, and
(ii) BSNL will issue revised guidelines with changes suggested by CEA.

Keeping in view of above both decision, the following guidelines should be followed during processing the PTCC approval of Power cables of 33KV DC (Double circuit) and less capacity:

(1) Concerned Zonal DE (PTCC)/SDE (PTCC) and BSNL SSAs are to be intimated about the laying of any conversion/proposed UG power cable of capacity 33KV DC (Double circuit) and below along with the name of power cable, route length, Railway NoC, EPR values of the new substations and toponap so that telecom

authorities can depute their representatives during digging and laying of power cables.

(2) Also a self certificate as given below should be submitted by the concerned Power authority :

(I) The Power cables of capacity 33KV DC and less will be laid at a minimum depth of 1.2 meters below the earth surface.

(II) **The minimum separation between the telecom cables and power cable will be maintained as 0.3 meter for 33KV Double circuit/33KV SC (Single circuit) and less.**

(III) Power cable will be painted in RED or a mark of spark in "red" will be made available on sheath of the cable for identification similar to the marking of the telephone handset emblem on outer sheath of telecom cable.

(IV) For identification of UG power cable, route markers will be provided.

(V) Non existence of any BSNL assets within the EPR zone of the proposed Substation will be ensured before energisation of the power cable in co-ordination with BSNL Authorities.

(VI) In case of occurance of any damages to BSNL Personal or assets, after due energisation of the power cable, power authorities are liable to the charged for the compensation towards such damages to BSNL assets.

This letter supersedes this office earlier lr. no.CGM/QA&I/LP-2015/107TH CLPTCC meeting/41, Dated at Jabalpur, the 13/03/2019, regarding "PTCC approval of Power cables of 33KV DC (Double circuit) and below – Guidelines for processing such proposals.

This is issued with approval of competent authority.

P. K. Jain 23/11/2019

Asstt.General Manager (Technical)
Mobile No. 9425803006

Copy to :

(1) All PGMs / GM , QA & Inspection circle for information pl ,
(2) Chief Engineer, PCD Division ,Central Electricity Authority, New Delhi for information pl ,
(3) The Director (Telecommunications), Railway Board, Rail Bhawan, Raisinha hills, New Delhi – 110001 for information and necessary action pl ,
(4) Director, PCD Division & Secretary (Power side) CLPTCC, Central Electricity Authority, New Delhi for information & with request to circulate this letter to all power utilities, and
(5) All Zonal DE (PTCC), BSNL QA &Inspection circle for information & for circulation to all BSNL telecom circle and all State power company (Transmission & DISCOM) and Power Grid corporation, under their jurisdiction.
(6) The Directorate General of signals, Signal-7, General staff branch ,Integrated HQ of MoD (Army) DHQ PO, New Delhi-110011.

File No.CEA-PS-17-11(16)/1/2021-PCD Division

Annexure B.3(1)

File No CEA/PCD/CLPTCC/376-389

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

Dated: 10.08.2020

To,
As per attached list.

Subject – Revision of PTCC Manual 2010 – Constitution of Committee regarding.

Reference: Minutes of the 109th CLPTCC Meeting (circulated on 01.06.2020 and also available at http://cea.nic.in/ptcc_meetings.html)

Sir/Madam,

As you may be aware that a Central Standing Committee, namely Power & Telecommunication Co-ordination Committee (PTCC), comprising members from Power Utilities, Telecommunication, Railways and Defense, was constituted by Government of India resolution for resolving technical issues and ensuring safe co-existence of power and telecommunication assets as well as safety of personnel of concerned organizations working in close vicinity of power transmission lines. Central level PTCC (CLPTCC) has been involved in improving safety standards and evolving PTCC norms in line with the continuous advancements in power and telecommunication sectors.

For smooth implementation of PTCC clearance process, PTCC Manual was prepared by the committee, which serves as a reference for processing PTCC cases, procedure for calculation of mutual coupling, recommended safety norms and protection from EPR, LF induction test etc.

The Manual was last revised in 2010. Since then, there have been numerous meetings of CLPTCC wherein several key issues in view of the latest developments

in power and telecom fields were discussed and resolved/finalized. In view of these developments, a need for reviewing the PTCC Manual was felt. The issue of revision of PTCC manual 2010 was raised in 108th and then in 109th CLPTCC Meeting wherein Members of the Forum agreed for review of the Manual.

In view of the above, a Committee to review the PTCC Manual 2010 with following members is hereby constituted:

1.	Chief Engineer, PCD Division, CEA	– Chairperson
2.	CGM, Inspection Circle, Jabalpur, BSNL	– Member
3.	Chief Engineer, DP&T Division, CEA	– Member
4.	Secretary (Power), CLPTCC	– Member
5.	Secretary (Telecom), CLPTCC	– Member
6.	A Director level representative from Ministry of Defense	– Member
7.	A Director representative from Ministry of Railways	– Member
8.	Joint Secretary (Power), CLPTCC	– Member
9.	Joint Secretary (Telecom), CLPTCC	– Member
10.	A representative from GETCO	– Member
11.	A representative from MSETCL	– Member
12.	A representative from KPTCL	– Member
13.	A representative from TANTRANSCO	– Member
14.	A representative from RRVPNL	– Member
15.	A representative from PSTCL	– Member
16.	A representative from WBSETCL	– Member
17.	A representative from AEGCL	– Member

You are requested to kindly communicate the nomination of a Member for the above Committee, well conversant with the Manual and procedures/theories contained therein, latest by 25.08.2020.

Sincerely,

(R. P. Singh)
Director &
Secretary (Power), CLPTCC

Copy for kind information to:

1. Chairperson, CEA
2. Principal Chief Engineer-I (Incharge), CEA

S. No.	Address
1.	Directorate General of Signals, Signals 7, General Staff Branch, Integrated HQ of MoD (Army), DHQ PO, New Delhi - 110011 Email:
2.	Director(Tele), Railway Board, 256-A, Raisina Road, Rajpath Area, Central Secretariat, New Delhi, Delhi 110001 Email: dtele@rb.railnet.gov.in
3.	Chief Engineer (DP&T Division), CEA Room No. 611(N), Central Electricity Authority, Sewa Bhawan, R. K. Puram, Sector-1, New Delhi - 110 066 Email: vivek.goel.cea@nic.in
4.	CGM, Inspection Circle, Jabalpur, BSNL, Sanchar Vikas Bhavan, Residency Road, Jabalpur-482001 Email: cgm_tnd@bsnl.co.in
5.	Chairman and Managing Director Gujarat Energy TransmissionCorporation Ltd. Sardar Patel Vidyut Bhawan, Race Course , Vadodara- 390 007 Email: md.getco@gebmail.com
6.	Chairman & Managing Director Maharashtra State Electricity Transmission Company Ltd., C-19, E-Block, Prakashganga, Bandra-Kurla Complex Bandra(E), Mumbai 400 051 Email: md@mahatransco.in
7.	Managing Director Karnataka Power Transmission Corporation Ltd., Kaveri Bhawan Bangalore -560009 Email: md@kptcl.com
8.	Managing Director TANTRANSCO 10th Floor/NPKRR Malikai, No. 144 Anna Salai, Chennai-600002 Email: mdtantransco@tnebnet.org
9.	Chairman and Managing Director, Punjab State Transmission Corp. Ltd. Regd. Office, PSEB Head Office, The Mall, Patiala Pin:147001 Email: cmd@pstcl.org
10.	Chairman & Managing Director Rajasthan Rajya Vidyut Prasaran Nigam Ltd. Vidyut Bhawan, Janpath Jaipur (Rajasthan) - 302005

	Email: cmd.rvpn@gmail.com
11.	Managing Director West Bengal State Electricity Transmission Corporation Ltd, Vidyut Bhavan, Bidhannagar, Block - DJ, Sector - II, Kolkata - 700 091
12.	Managing Director Assam Electricity Grid Corporation Ltd Bijulee Bhawan (First Floor) Panltanbazar, Guwahati – 781001 Email: managing.director@aegcl.co.in

Annexure B.3(2)

RECOMMENDATIONS

For Protective Measures against Induced Voltages on Different Types of Block Instruments in Use in Indian Railways

1. **Neale's Token Instrument and Neale's Tablet instruments with the characteristics similar to Neale's Token in respect of 3-position Relay and Tock Magnet & Neale's 'D' Type.**

   (a) For induced voltage not exceeding 430 V no special precaution is necessary.

   (b) For induced voltages exceeding 430 V metallic return and appropriate Gas Discharge tubes are to be provided.

2. **Western Railway Type Single Line Tablet Instrument**

   This instrument is immune up to 75V AC induced voltages and cannot be used where it is expected to have more than 75 V AC induced voltages.

3. **Carson Double Line Block Instruments.**

   Induced AC voltages exceeding 125 V result in unsafe condition and hence cannot be used where induced voltages are likely to exceed 125V.

4. **Siemen's Tokenless Block Instruments.**

   This instrument can stand induced AC voltages up to 210 AC r.m.s with the following modification:

   (a) Condenser C2 of the frequency converter card disconnected and

   (b) All the lightning dischargers provided within the instrument must be removed and lightning dischargers having voltage rating not less than 350 V provided externally between each line and earth. This provision of limit of 350 V will also apply to lightning dischargers if any provided by P&T Department on the line.

   This instrument is not considered suitable for use in AC electrified section.

5. **SGE Double Line Block Instrument**

   As in Sl. No. 1.

6. **Kyosan Tokenless Block Instrument**

   Since the induced voltage of the order of 38 V Single Phase AC causes distortion and mutilation of the codes and can cause unsafe condition, this type of block instrument is not considered to be immunized against AC induced voltage beyond 30V.

   (Note: Immunity level was modified subsequently vide Railway Board letter No. 90/Telecom/PTCC/P/1 dated 25.5.1993, given on next page).

7. **Diado Double Line Block Instruments.**

This block instrument is safe for installation on circuits where AC induced voltage does not exceed 24 V rms

8. **Diado Single Line Tokenless Block Instruments**

Without modification this instrument can safely stand induction up to 74V 50 cycles AC induced voltages. For induced voltages up to 650V AC the following modification is to be made:

A-3 position polarized relay of the type used in Neale's token or SGE double line block instrument is to be interposed in the line circuit and the existing line relay (NR Relay) fed from local battery through the contacts of polarized relay. Also the line condensers C1 & C2 each of the microfarad capacity with a voltage rating of 160V are to be replaced by condensers of equal capacitance but with a voltage rating of 1000. Standard gas dischargers will also have to be provided for the lines.

9. **Podanur Make Single Line Tokenless Block Instrument (Push Button Type)**

This instrument is only suitable for use in non-AC electrified sections. This instrument is safe for use in block circuits subjected to maximum induction 650V r.m.s. 50 cycles AC from neighboring power line provided the existing DC blocking condenser in the telephone circuits is replaced by a one rated for 1000V DC for non AC section only (non AC electrified).

10. **Tyres Tablet Token Instrument No. 7**

Tests indicate that the instrument is not safe for induced voltages higher than 150V AC

11. **Neale's Voucher Block Instrument**

This instrument is safe for induced AC voltages up to 430V. This instrument is not suitable beyond 430V.

12. **Thcobald Token Instrument**

It has been found that the instruments can withstand induced AC voltage up to 430V without any unsafe failure.

13. **Syko's Lock and Block Instruments**

It is considered that the Syko's lock and block instrument is safe with induced voltage up to 15V only. In view of this low value of the induced voltage, which the instrument can withstand, it is desirable not to use this instrument on sections where any induced voltage may be expected.

14. Rest of the types of single line and double line block instruments are not safe for use in sections having AC induced voltages.

15. Maximum acceptable limit of induced voltage due to power parallelism is up to 2000V on railway block and communication circuits subject to the specific limitations mentioned above.

The cases of induced voltages above these limits should be treated as re-engineering cases and each such case should be treated separately in consultation with the Railway Board.

II. Copy of Director Telecom (Railway Board) New Delhi Letter No. 90/ Telecom/ PTCC/ P1 dated 25th May 1993.

To

General Manager (S&T)
All India Railways
Director General (Telecom)
RDSO, Lucknow.

Subject: AC Immunity Level of Block Instrument.

Reference: This office letter No. 77/W3/TCM/2/Meeting dated 3rd April 1978.

Railway Board vide above referred letter circulated the AC Immunity levels of various block instruments. Please add the following in the list already circulated vide above referred letter.

Block Instrument	:	Kyosan Tokenless Push Button.
Immunization Level	:	650 V AC with modification similar to Podanur's Tokenless Single line block instrument as mentioned in Item 9 of the above referred letter.

Sd/-
(S.C. Sharma)
Director (Telecom)

Copy to :

1. Director (PTCC), PTCC Directorate, Central Electricity Authority, West Block-2,Wing-1, Ground Floor, RK Puram New Delhi 110066.
2. The Chief General Manager, T&D Circle, Department of Telecommunications, Sanchar Vikas Bhavan, ResidencyRoad, Jabalpur 482001.

With enclosure of Railway Board's letter No. 77/W3/TCM/2/Meeting dated 3.4.1978 (in 4 pages) for information and necessary action.

Sd/-
Director (Telecom)

File No.CEA-PS-17-11(16)/1/2021-PCD Division

Annexure B.4(1)

File No. CEA/PCD/CLPTCC/2020/393

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division
****

To,
Director (Tele)
Railway Board
Rail Bhawan, New Delhi - 110001

Date: 13.08.2020

Subject - Clarification on safe limits for Railway Block Instrument used in South Western Railway telecom circuits against Induced Voltage developed across them - regd.

Sir,

Karnataka Power Transmission Corporation Ltd (KPTCL) informed that South Western Railway (SWR) has withdrawn NOC for LILO lines of 220 kV Ghataprabha-Chikkodi D/C line at 220/110 kV Kabbur (Mugalkhod) S/S due to non-availability of safe limits of induced voltage (IV) for railway block instrument used in SWR. Subsequently, SWR sought details of safe limit of IV for railway block instrument used in SWR telecom circuits, namely; Universal Fail-Safe Block Instrument (UFSBI) and Solid-State Block Proving Axle Counter (SSBPAC) from AM/Tele, Railway Board (copy enclosed).

The matter also was discussed in the 109th CLPTCC meeting wherein it was decided that as no CLPTCC Member from Railways is present in the meeting, therefore, CEA would take up the matter with the Railway Board in this regard.

In view of the above, it is requested to kindly provide necessary details for (1) safe limits of IV on the above block instruments and (2) corresponding protective devices to be installed in case IV exceeds safe limits, for further needful in the matter.

Encl: As above

Sincerely,
राप सिंह
(R.P. Singh)
Director, PTCC

एनआरपीसी परिसर,कटवारिया सराय, नई दिल्ली-110016 टेलीफैक्स: 011-26565214 ईमेल: celdntcea@gmail.com वेबसाइट www.cea.nic.in
NRPC Complex, Katwaria Sarai, New Delhi-110016Telefax: 011-26565214 Email: celdntcea@gmail.com Website: www.cea.nic.in

File No.CEA-PS-17-11(16)/1/2021-PCD Division

Annexure - I.5(1)

SOUTH WESTERN RAILWAY

Office of PCSTE
'Rail Soudha' GM's Office
Gadag Road Hubballi. Fax No. 08362364906

No. SG/SWR/PTCC/317/Vol.IV

Date: 21.10.2019

AM/Tele
Railway Board

Sub: Clarification regarding dealing with PTCC cases.
Ref: Telecom Manual Chapter II - Role of PTCC.

*****

In connection with the above subject and reference, guidelines are required to deal with PTCC cases and clearance:

1) Safe limit for Induced Voltage (I.V) for Working of Universal Fail Safe Block Instrument (UFSBI): Single / Double line in both RE/ Non RE area.

2) Safe limit for Induced Voltage (I.V) for Working of Solid State Block Proving Axle Counter (SSBPAC): Single / Double line in both RE/ Non RE area.

3) The protective devices to protect the above devices in case of I.V. exceeding safe limit.

Safe limit for I.V for UFSBI & SSBPAC has not been mentioned in Telecom Manual or PTCC manual 2010. Hence, it is requested that, the above issues may please be clarified and amended accordingly in Telecom Manual/PTCC manual.

(V.K. Goyal)
CCE/SWR/UBL

Copy to:
1) Dir/Tele/Rly Board:
2) CE/CEA/NDLS:
3) DE/PTCC/Chennai:

For kind information and necessary action please.

1/1

File No.CEA-PS-17-11(16)/1/2021-PCD Division

Annexure B.4(2)

दक्षिण पश्चिम रेलवे /SOUTH WESTERN RAILWAY

प्रधान मुख्य संकेल व दूरसंचार अभियंता का कार्यालय, प्रथम मंजिल, रेल सौधा, गदग सडक, हुब्बल्लि
Principal Chief Signal & Telecom Engineer, Rail Soudha, Gadag Road, Hubballi-20

सं. SG/SWR/PTCC/F-2915/1905 **दिनांक:** 03.09.2020

The DIRECTOR (PTCC)
CENTRAL ELECTRICITY AUTHORITY,
Load Dispatch & Telecommunication Division,
PTCC Directorate, NREB Complex, 18-A,
ShaheedJeet Singh's Marg, Katwaria Sarai,
NEW DELHI – 110016.

विषय: Proposed 220KV Double circuit LILO lines on MC Towers from the existing 220KV Ghataprabha-Chikkodi DC line to the proposed 220/110KV SS at Kabbur (Mugalkhod) in Chikkodi Taluk Belagavi District.

संदर्भ: 1) CEE/KPTCL letter No. CEE/SLDC/PTCC/F-2915/2339/47 99 dated 21.05.2019.
2) CEA/NDLS letter No. CEA/PCD/PTCC/KNK-921/954 dated 17.09.2019.

With reference to the above, the NOC for said PTCC proposal is issued with a condition that, as there is no guidelines as per PTCC Manual 2010, regarding safe working limit of induced voltage in section where Universal Fail-Safe Block Interface block Instruments are used in Railways. Hence, if required suitable protection arrangements shall be done in the section in consultation with Senior Divisional Signal & Telecom Engineer Hubballi and effectiveness to be monitored jointly and ensured.

The cost at actual for protection arrangements shall be bear by the later entrant as per PTCC manual.

This is for kind information please.

3.09.2020.

(एल. सोमशेकर/L. Somashekar)
स.सं.व.दूसं.अ/दू सं/प्रका/ASTE/TELE/HQ
कृते प्र.मु.सं.व.दूसं.अभी/दपरे/For PCSTE/SWR

Copy to:
1. **Sr. DSTE/UBL:** for information and necessary action please.
2. The **Chief Engineer Electricity**, State Load Dispatch Centre, #28, Race Corse Cross Road, BENGALURU – 560009.
3. **Divisional Engineer (Telecom):**- PTCC, T&D Circle, BSNL, # 26, 1st Floor, Raj Bhavan Telephone Exchange, Sardar Patel Road, Guindy, CHENNAI – 600 032.

File No.CEA-PS-17-11(16)/1/2021-PCD Division

Annexure C.1(1)

निरीक्षण एवं गुनवत्ता आश्वासन परिमन्डल
संचार विकास भवन , रेसिडेंसी रोड
जबलपुर - 482 001
INSPECTION AND QA CIRCLE,
SANCHAR VIKAS BHAVAN,
RESIDENCY ROAD, JABALPUR 482 001
Tel : 09425803008
Fax – 0761-2678860

भारत संचार निगम लिमिटेड
(भारत सरकार का उपक्रम)
BHARAT SANCHAR NIGAM LIMITED
(A Govt. of India Enterprise)
BSNL 3G Faster than your thoughts BSNL LIVE 2010

No. CGM/QA & Insp /Tech/EI/20-21/Armoured OFC /14 Dated at JBP the 18.05.2020

To,

Director
CEA
New Delhi

Sub: PTCC clearance in case of laying of armoured OFC cable in BSNL U/G OFC network –Regarding.
Ref.: Telephonic discussion with GM (HQ) Jabalpur.

With reference to above subject it is intimated that BSNL is planning for laying of armoured Optical fibre cable in BSNL underground OFC network. While laying, it will be ensured that the cable is properly earthed along the length to avoid any hazards.

It is requested to kindly provide your opinion, whether the PTCC Clearance is required to be taken in case of laying of armoured Optical Cable.

AGM (PTCC)
O/o CGM QA & Inspection Circle
Jabalpur

File No.CEA-PS-17-11(16)/1/2021-PCD Division

Annexure C.1(2)

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division
****

Dated: June 08th, 2020

To,
AGM (PTCC),
O/o CGM Inspection & QA Circle,
Sanchar Vikas Bhawan,
Residency Road, Jabalpur – 482001.

Subject: PTCC clearance in case of laying of armoured OFC cable in BSNL U/G OFC network – regarding.
Ref: BSNL's letter no. CGM/QA & Insp/Tech/EI/20-21/Armoured OFC/14 dated 18.05.2020.

With reference to the above, you may refer to the Chapter-3 Section C of the PTCC manual 2010 which provides for PTCC clearance for telecom lines. Therefore, in view of this, BSNL may submit the PTCC proposal for their proposed telecommunication lines/Exchange as per PTCC Manual with additional information of distance of earthing on armoured cable to concerned Power authority and Director (PTCC), CEA, New Delhi.

While forwarding the filled in proper Questionnaire, BSNL may ask to concerned power utility to submit EPR details of power sub-stations and alignment of power lines in the vicinity of the route of proposed telecommunication line to the Director (PTCC), CEA New Delhi.

This issues with the approval of Chief Engineer (PCD), CEA.

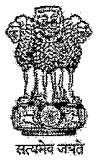
[illegible] 08.06.2020
निदेशक

[illegible]
[illegible]

File No.CEA-PS-17-11(16)/1/2021-PCD Division

ANNEX-I

Annexure C.1(3)



भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

पावर कम्युनिकेशन डवलप्मेंट प्रभाग

Power Communication Development Division

No. CEA/PCD/104CLPTCC/1415-16 Date: 28/06/2017

General Manager,
Eastern Regional Load Despath Centre(ERLDC),
14, Golf Club Road, Tollygunge,
Kolkata-700 033 (W.B.)

Subject: Ensuring PTCC Route approval before issuing Charging Code

Sir,

Section 160(1) of Electricity Act 2003 provides for protection of telegraphic, telephonic, and electrical signaling communication. It mandates that transmission licensee shall take all the reasonable precaution in constructing, laying down and placing his electric lines so as not to affect whether by induction or otherwise, the working of any wire and line used for the purpose of telephone or electric signaling communication.

Sub section (2) of section 177 of Electricity Act 2003, empowers Central Electricity Authority (CEA) to make regulations and accordingly regulation prepared by CEA in this context entitles "Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electrical Lines)", Section 88(5) is reproduced as under:

"The owner shall arrange all required consents and approvals including as those from Power Telecommunication Coordination Committee (PTCC); and for civil aviation, road, river, rail, canal or power line crossing, way leaves and environment & forest clearances etc. from the concerned Authorities, agencies"

Regarding PTCC, it is to inform that Government of India in 1949, constituted a Standing Committee i.e. PTCC (Power and Telecommunication Coordination Committee) for ensuring the safety of humans lives and Telecommunication equipment and for coexistence of power and telecom sector. The committee has stakeholders namely BSNL, Railways and Defense, who may have their telecom circuits in the vicinity of proposed power lines. For ensuring safe and secure operation of telecom equipment in the vicinity of Power line, PTCC Route Approval (RA) is issued after taking care of protection of affected telecommunication line of the stakeholders in the vicinity of the power lines. The PTCC Route Approval is issued by BSNL.

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As PTCC clearance is mandatory, it is requested that **RLDC while issuing charging code to the PGCIL or any transmission licensee may ensure that PTCC Route Approval is already accorded by the competent authority.**

Yours faithfully,

28/6/17

o/c **(Naresh Bhandari)**
Chief Engineer

Copy to:

Executive Director, National Load Despatch Centre (NLDC), POSOCO, B-9, 1st Floor, Qutab Institutional Area, Katwaria Sarai, New Delhi- PIN 110016

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