

FINAL (Revised)

18/AT

BHARAT SANCHAR NIGAM LIMITED

O/o CHIEF GENERAL MANAGER QA & INSPECTION CIRCLE JABALPUR

**Minutes of 108th Central PTCC Meeting held at Guwahati, Assam State, on
June 10, 2019**

The 108th CLPTCC meeting was held at Guwahati, Assam State on 10th June, 2019. The meeting was hosted by BSNL at conference hall, O/o Chief General Manager, Assam Telecom circle, Guwahati. The meeting was attended by dignitaries from BSNL, CEA, Railways, Defence and State/Central Power utilities.

The list of participants is enclosed at **Annexure-1**.

Shri. A.K.Sinha PGM QA & INSP circle Kolkata welcomed all officers from BSNL, CEA, Railways, Defence and State & Central Power utilities. He **thanked Shri Sandeep Govil** CGM BSNL Assam Telecom circle Guwahati for his willingness to be the chief guest.

Shri.Giriraj Singh GM (HQ INSP) & Secretary (Telecom) CLPTCC requested the participants to proceed with mutual consent so that the purpose of **formation** of CLPTCC would be achieved.

Shri.Ragvendra.Pratap.Singh, Director, CEA & Secretary (Power) CLPTCC stated that the existing PTCC manual was published in 2010. As many decisions have been taken since 2010,there is a need to revise the PTCC manual in line with these decisions.

Shri Naresh Bhandari Chief Engineer CEA & Co- Chairman 108th CLPTCC meeting stated that due to reduction in time limit for process of PTCC approval cases related to Renewable energy, **such** cases are being cleared expeditiously. He stated that unlike BSNL, in which 4 Zones are **working** for PTCC process, Defence, Zones have not been established yet. Due to this, telecom details from Defence sometimes exceed prescribed time limit. He urged the associated authorities to adhere to time schedule for PTCC clearance.

Shri B.K.Jog CGM BSNL QA & Insp, circle Jabalpur & Chairman 108th CLPTCC meeting stated that two new high capacity servers have been installed at BSNL Data centre, Bangaluru. Necessary testing is under progress, before final migration of PTCC Web portal into new high capacity servers. For this work, time bound schedule has been prepared. He stated that at present BSNL telecom details are being submitted promptly by field units of BSNL. Agreeing with Shri.Naresh Bhandari, he added that proposal for PTCC approval cases related to Re-

Pooja P.K. Jais

newable energy are being received 47/81 numbers, hence disposal of their must be expedited.

Shri Sandeep Govil CGM BSNL Assam Telecom circle Guwahati & Chief guest 108th CLPTCC meeting, welcomed all the participants. He stated that CLPTCC resolves various issues related to PTCC like coordination, modification of existing guidelines and practices etc.

related
A. Confirmation of Minutes:

CEA does not agree with decision taken in 107th CLPTCC meeting, on point.no. "B.11 charging of 33kV Power line from Pulwai to PDCIL Gadwal Mahboobnagar Telangana".

CEA: CE CEA cited CEA letter on non-confirmation of minutes conveyed to BSNL stating that damage in BSNL TE had not occurred due to induction from power line because induced voltage value within safe limits. Therefore the minutes recorded at B.11 may be modified; otherwise this conclusion would set a precedence to bring all those cases where BSNL assets are damaged due reasons other than induction.

BSNL: CGM QA&Inspection circle Jabalpur and chairman of meeting stated that according to the decision of last meeting, we have sent a letter to CGM Telangana telecom circle, Hyderabad, along with all documents i.e minutes of 107th meeting, sub-committee report etc for raising compensation from DISCOM. Therefore minutes of last meeting i.e 107th cannot be modified.

He also stated that M/S Solar arise had not applied for PTCC clearance which shows that there was no intention to obtain PTCC clearance. M/S Solar arise charged the line, without PTCC clearance and continue operating it for more than one year. During this time, many times damage occurred in BSNL TE. BSNL officer asked to M/S Solar arise to de-energise the line but M/S Solar arise has not done. After the interference by District collector, line was de-energised. After this many faults were found in power line by sub-committee and DISCOM. M/S Solar arise rectified all faults and charged the line again, after obtaining the PTCC approval. After removal of faults in power line, No damage observed in BSNL TE. Forum also heard the representation of M/S Solar arise in last meeting. He suggested that we should not modify the decision taken and minutes in the last CLPTCC meeting.

After detailed deliberations, the minutes of 107th CLPTCC meeting held at Hyderabad, Telangana state, on 14th December, 2018 were taken up for confirmation and following is decided :

- (1) Minutes of last meeting in point no. "B.11 charging of 33kV Power line from Pulwai to PDCIL Gadwal Mahboobnagar Telangana", will not be modified.

(2) The comments from CEA regarding, non confirmation of point no. "B.11 charging of 33kV Power line from Pulwai to PDCIL Gadwal Mahboobnagar Telangana", will be recorded, as it is.

B.1 Ensuring 'Zero Level' on unguarded power crossings:

BSNL: Regarding unguarded power crossings, aerial OFC with metallic support wherever erected, is being discussed in SLPTCC meetings.

After detailed deliberations, it is decided that since matter is discussed regularly in SLPTCC meeting, item has been closed.

ITEM CLOSED

B.2 Computerization of PTCC Route Approval Process:

In the 106th CLPTCC meeting, Power Utilities had expressed difficulties regarding login to the portal, uploading of documents and slow speed. In the last meeting, CGM BSNL informed that high capacity servers have been procured and installation was under progress. He also informed that 8 GB RAM, 250 GB SSD HD PC was being used as server as an interim arrangement. The grievances regarding uploading of Topo sheets, system slowing during multiple logins etc. will be taken care in the version 2 of the software, following installation of high capacity servers. BSNL may inform about the progress.

BSNL: CGM QA & Inspection circle, Jabalpur stated that 2 nos high capacity servers have been installed at Data centre, Bengaluru. Necessary testing before final migration is in progress. After the completion of testing, migration of PTCC Web portal from existing PTCC server (working on PC) at Hyderabad into new high capacity servers at Bengaluru, will be started.

After detailed deliberations, it is decided that subcommittee meeting will be held, after completion of migration work.

B.3 SLPTCC meetings:

(1) Detailed discussion done on modified format of status of power lines already charged as well as power lines under construction along with their PTCC Route approval and finally it has been accepted by forum.

After deliberations, it is decided that power utilities will submit status of power lines in modified format to concerned DE PTCC BSNL and CE PCD CEA, New Delhi on 30th September & 31st March every year.

ITEM CLOSED

(2) It was also brought up that no SLPTCC meetings were conducted in Maharashtra state since 12.05.2017 due to dispute between MSETCL and BSNL regarding organization of the meeting. In the last meeting, it was decided that MSETCL would conduct the next meeting.

DE WZ: A letter was written to Chief Engineer, MSETCL regarding matter but no meeting was conducted in Maharashtra by MSETCL.

After detailed deliberations, it is decided that concerned GM of BSNL will write a letter to MD/CMD of MSETCL and copy will be given to CE PCD CEA New Delhi.

B.4 Nomination of members from DISCOMs for SLPTCC meetings:

In the last meeting, DET (PTCC) Kolkata informed that APDCL, Assam had not sent their nomination for SLPTCC Meeting.

APDCL has sent nomination vide letter dated 18/12/2018 .

ITEM CLOSED

B.5 Non submission of PTCC proposal of SLPTCC/CLPTCC by PTCUL:

(i) Charging of transmission lines without PTCC Route Approval by PTCUL:

BSNL : DE NZ informed that PTCUL has submitted 12 cases for post facto PTCC approval, out of 12 no cases of PTCUL, RAC for 5 cases have been issued, IV calculation has been received (up to 132KV) for 6 cases, but RAC is pending due to absence of NOC from Defence & Railways. IV calculation (Above 132KV) is awaited from CEA for 1 case.

Railway: Joint Director, Railway board (Telecom), New Delhi informed that no such case is pending at Railway side for NoC. PTCUL may submit the cases for which NoC are pending, to GM (S&T), Northern region, Baroda house, New Delhi.

CEA: CE, CEA New Delhi informed no case received from PTCUL side.

After detailed deliberations, it is decided that PTCUL take up the matter with Railways and CEA.

(ii) Other cases of non-submission of PTCC Proposals:

It was informed by BSNL that no PTCC cases have been received from the states of Himachal Pradesh, Bihar, Assam, Haryana, UP and J&K for the last 4 years.

DE NZ: The proposal of PTCC cases from Haryana and UP, are now being submitted but Himachal and J&K SEB are still not submitting the proposals. This issue was raised during last SLPTCC meeting of both states and they assured to submit the case in future.

DE EZ: Till date no offering is received from Bihar state electricity board and Assam power development corporation limited. In this regard letters has been written dt 20/12/18 & 26/04/19 to the Chief Engineer PCD O/o CEA ND.

After detailed deliberations, it is decided that CE, CEA New Delhi will write a letter to concerned SEBs for seeking PTCC clearance.

B.6 Non-submission of proposal / telecommunication details from Defence:

In the 106th meeting Defence representative informed that seven zones have been identified. Each zone will have a nodal officer. He informed that Defence has undertaken a project of "Network for Spectrum" being implemented by BSNL. This project would realign the existing communication system in Defence sector. He also assured that once this project is completed Nodal officer will have the data of communication system in their respective zone and PTCC cases would be disposed of at nodal level without any requirement to go to ground level for marking of Defence telecom details. He informed that delay in reply from Defence is attributed to frequent movement of personnel. E-mail id and official phone no. of the nodal officer would be given to all for contacting after formation of zones.

DE NZ: Since January 2019, NoC from Defence are not being marked to BSNL, due to which tracking of cases is getting difficult.

Defence Representatives: Nodal officer will be appointed after completion of NFS project.

After deliberations, it was decided Defence representative will inform his office regarding non issuance of NoC copy to BSNL from Defence side since January 2019 and details of nodal officer will be communicated after completion of NFS project.

B.7 Scrutiny report issued by CEA:

In the last meeting, it was discussed that in order to avoid delay in processing of PTCC cases, Power Utilities shall respond to scrutiny reports of CEA and BSNL. It has been observed that Power Utilities are still not responding to CEA scrutiny report.

After deliberations, it is decided that this agenda may be continued.

B.8 Pending PTCC proposals:

In the last meeting, DE SZ informed that month-wise details of PTCC cases in South Zone for which BSNL Telecom details are pending are being sent by DGM A/T, Chennai to the concerned territorial circles (Chairman, SLPTCC) for follow-up. CE, CEA suggested that the same practice may be followed by other zones also.

BSNL: In the last meeting 160 CLPTCC cases were reported pending, Out of 160 cases, 71 cases pending at BSNL side due to non submission of TD. Out of 71 cases, TD of 54 cases already submitted. Meanwhile 62 RAC has also been issued. Every Zonal DE PTCC is monitoring the cases regulary for which Telecom details are pending. They have maintained a communication through phone, correspondence or face to face interaction. Pending cases due to TD is discussed in SLPTCC meeting.

After detailed deliberations, it is decided that item has been closed.

ITEM CLOSED

B.9 PTCC approval of HVDC Earth Electrode:

Based on the decisions taken in 104th CLPTCC meeting a Sub-Committee comprising members from BSNL CEA and PGCIL under the chairmanship of PGM BSNL EZ was formed. The sub-committee held its first meeting on 13.04.2018

Further it was decided to include members from CPRI and PRDC in the sub-committee. The second meeting of sub-committee, including one member each from CPRI and PRDC, was held on 25.10.2018. In the discussions, CPRI suggested that transient DC fault current frequency of 50 Hz can be considered as the worst case which gives the maximum Induced Voltage (IV) magnitude using the formula being considered by CEA under normal cases. CPRI opined that the IV may be computed by considering 50 Hz (worst case) as was done in ± 500 kV HVDC Mundra - Mahindergarh line. . After detailed deliberations in second meeting of sub-committee, the following was decided:

- (i) CPRI would seek required information for carrying out studies. CPRI may explore possibilities for doing this work free of cost, as there is no provision to make payment from PTCC forum.
- (ii) PGCIL, SR-I informed that in case of +/- 800kV Raigarh-Pugalur HVDC line, there is no earth electrode, and instead each pole has its own direct return conductor. It was decided that PGCIL, SR-I would submit complete technical details to the Sub-Committee for examination.

In the last meeting, forum has decided on basis of minutes and decision taken in subcommittee meeting that till the CPRI study report is received, PTCC proposals for HVDC lines would be sent in the same way as PTCC proposal for AC line and forum has also instructed PGCIL, SR-I for submitting complete technical details of Raigarh-Pugalur HVDC line to the Sub-Committee for examination at the earliest.

BSNL: CPRI study report has not been received yet. BSNL has forwarded CPRI letter dated 16.12.2018 (Enclosed as Annexure - 2) to the Chief Engineer PCD CEA New Delhi. CPRI has written:

"It was noted in the gist of meeting that CPRI will explore the possibility of carrying out simulation studies to compute the transient fault currents. As noted above and in gist of meeting, if the available PGCIL data is used for IV calculations, further study by CPRI is not required. However, if it is desired to have the fault study be conducted by CPRI, it is felt essential to have a meeting of all the concerned with our colleagues at Power System Division, CPRI Bangalore at a mutually convenient date and time at Bangalore to understand and discuss the scope, data required for modeling etc. and conclude on the matter. As far as exploring the possibility of conducting the study free of cost is concerned, kindly note that the matter cannot be decided by us and needs to be put up to the competent authority.

CEA: CE CEA stated that there is no provision to make payment from PTCC forum for conduction of study by CPRI. He suggested that PTCC proposals for HVDC lines may be dealt in the same way as PTCC proposal for AC line are being dealt and item may be closed.

After detailed deliberations, it is decided that PTCC proposals for HVDC lines would be dealt in the same way as PTCC proposals for AC lines and item has been closed.

ITEM CLOSED

B.10 Whether PTCC approval is needed for power Cables:

In the last CLPTCC meeting it was decided that induction due to power cables of voltage level 33 kV and below on nearby telecom cables will be less due to double screening effect of power cable and telecom cable. Hence, it is sufficient that power utilities forward the self-certification mentioning the name of the power cable with route length, along with Railway NOC, EPR values of the new substations and topo map to the concerned zonal DE (PTCC)/SDE (PTCC) and BSNL SSAs. If no objection or report is 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 the concerned zonal DE (PTCC)/SDE (PTCC) and BSNL SSAs by the Power Authority.

Accordingly, BSNL has issued the guidelines vide letter dated 13.03.2019. CEA has following suggestions:

- (1) The IV on Railway telecom circuits are much less (about 20 %) than IV on BSNL telecom circuits. Hence, IV calculation may be waived off for Railway telecom circuits as decided for BSNL cables. CEA suggests that Railway & Defence NOC may be waived off for PTCC clearance of UG power cables of 33 kV and less,
- (2).I Minimum depth of laying for power cables under 33 kV is already given at clause 6.3.2, page 137 of PTCC Manual .CEA opines that this may be considered in the guidelines, and
- (2).II Point no. (ii), page 171 of PTCC Manual states: "The value of minimum clearance for underground power cables to be kept as 0.3 meters for 33 kV and less and 0.6 meters for 33 kV and above." CEA opines that separation may be taken as 0.3 meters for 33 kV (both S/C and D/C) and below UG power cables.

RAILWAYS: Joint Director (Telecom). Railway Board New Delhi stated that Railway NoC cannot waived off because safety circuit also are working on Telecom cable.

BSNL:

- (1) 33KV Double circuit (DC) carry twice the amount of power than the 33KV single circuit (SC) transmission line and comes under EHT category as the voltage is exceeding 36KV between phases.
- (2) 33KV DC lines are referred to DE PTCC and RAC is being issued by DE PTCC as it is comes under EHT line category and the effect of induction is 8 KMs on either side of power line, but for 33KV SC line cases are referred to and RAC is being issued by Chairman SLPTCC and the effect of induction is only 5 KMs on either side of power line.
- (3) As per PTCC Manual (page 62) the minimum clearance between the power wires and Telecommunication wires shall be **plus 0.3 meters for every 33KV or part thereof**. Hence for 33KV DC power cables, the minimum clearance between the power cables and Telecommunication cables is 0.6 meters given in PTCC Manual (page 171).
- (4) Also as per Electrical safety standard for LV/MV/HV (part 3), lying of Telecom cables with the power cables greater than 33KV:
 - (i) Power cables of voltage exceeding 33 KV shall be laid at Minimum distance of 1.2 meters depth.
 - (ii) U/G Telecom cables shall be with UG power cables of voltage exceeding 33 KV, Minimum 0.6 meters separate from power cables.

Hence for the safety aspect of Telecom assets, the value of minimum clearance between 33KV DC power cables and Telecom cables may be continued as 0.6 meters.

CEA: Point no.(1) made by BSNL above is invalid as voltage rating itself is given between phases and figure of 36KV between phases is not credible. Page 62 of PTCC manual mentions separation of " plus 0.3 meters " for power lines above 245KV voltage level, hence point no.(3) above irrelevant in this case. Standard mentioned in point no.(4) above pertain to power cables of voltage exceeding 33KV. For cables under and including 33KV voltage level , suggestions given above by CEA should be considered.

After detailed deliberations, it is decided that:

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

B.11 Agenda raised with permission of Chair:

As per PTCC Manual when the induced voltage is between 430 V and 650 V the protection cost is borne by BSNL. When the induced voltage is more than 650 V the protection cost is borne by the lateral entrant. The charging permission is given by BSNL after protection work is completed. KPTCL informed that there have been cases more than 4 years old where BSNL had to bear the protection cost but till date charging permission is not given. Similarly there have been cases when Power Utility has deposited money demanded by BSNL for protection when voltage exceeded 650 V but still charging permission from BSNL remains pending.

Case-I: (Induced voltage is between 430 V and 650 V and protection cost is to be borne by BSNL)

In the last meeting, it was decided that as per the clause 7 at page no. 145 of PTCC Manual, in case of Induced Voltage ranging between 430 V and 650 V, the energization of EHT power lines would not be held up for want of installation of GD tubes on telecom lines.

After deliberations, this para has been closed.

Case-II (Induced voltage is beyond 650 V and protection cost is to be borne by Power Utility)

CGM BSNL Jabalpur vide letter dated 30.07.2018 had issued guidelines for protection works to be carried out in case Induced Voltage is beyond 650 V. In the last meeting, CE CEA stated that the letter should be modified as there are no time limits prescribed in the letter for issuing of RAC and Energization approval.

BSNL: The letter dt 30/07/18 has been modified and time limits have been included in new letter dt 11/03/19.

After detailed deliberations, it is decided that since time limits have been included in modified letter, this para has been closed.

It was brought to the notice that some railway zones do not adhere to PTCC time limits for furnishing telecom details and for issuing NoC. It was provisionally decided that in case Railway telecom details are not received within the time limit prescribed by PTCC Manual CEA/Power utilities would compute IV from the available railway details in the topo map and would be considered as deemed Railway details. If No, NoC is not issued by Railway as per time limit prescribed in PTCC manual then it will be considered as deemed NOC. CLPTCC observed that as these provisional decisions have been taken in the absence of any representative from Railways so it would be prudent that before implementation these provisional decisions are conveyed to Railway Board with the request to send the representative in the next CLPTCC meeting.

Railways: Joint Director, (Telecom), Railway board New Delhi stated that IV value or RAC should not be issued without submission of Railway details or NoC from Railway side. At present monthly report on PTCC pending cases are being called from different zones and monitored. All PTCC cases pending due to non submission of railway details or NoC will be resolved earliest.

He also stated that communication can be made with Joint Director, (Telecom), Railway board New Delhi regarding pendency of PTCC cases from Railway side.

After detailed deliberations, comments from Railways side is accepted and this para has been closed.

ITEM CLOSED

B.12 Long Pending PTCC case of 132KV from OPTCL Odisha:

It was brought to the notice that 18 no's PTCC case of 132KV are pending due to non receipt of IV calculation from OPTCL, Odisha since long time. In the last meeting, DGM EHT(C), OPTCL informed that cases are pending due to non receipt of NoC from Railway (ECR).

DE East Zone Kolkata: Till date no action has been taken by OPTCL therefore nos. of PTCC cases of 132KV have increased from 18 (Last meeting at Hyderabad) to 23.

Out of these 23 cases, 1 case is pending since 2012, 2 cases since 2013, 2 cases since 2014, 2 cases since 2015, 5 cases since 2017, 9 cases since 2018 and 2 cases of current year.

Railways: Joint Director, (Telecom), Railway board New Delhi stated that long pending cases will be resolved at the earliest.

After detailed deliberations, it is decided that Railways and OPTCL, both take necessary action so that long pending cases may be cleared earliest.

B.13. No nodal officer for handling PTCC matters in JUSNL & Power Grid, ER- I, Patna:

For the last couple of years no nodal officer's name for handling PTCC matters from JUSNL (Jharkhand Urja Sanchar Nigam Limited) and Power Grid, ER I, Patna (Jurisdiction Bihar & Jharkhand) were informed to DE PTCC(ER),Kolkata. Therefore PTCC cases of their jurisdiction are not processed properly.

DE EZ Kolkata: Action has already been taken so item may be closed.

After deliberations, this item has been closed.

ITEM CLOSED

B.14. Private Power utilities may be given power to offer online:

In the last meeting, it was decided that Since Private power parties are not authorized to offer a request through the portal the following procedure may be followed:

1. For EHT power proposals of 33 kV DC and below 220 kV, the private parties should submit the proposal to SEBs, who in turn will scrutinize, authenticate the documents including the topo map and upload the proposal in the PTCC portal online.
2. For EHT power proposals of 220 kV and above, the present procedure of registering the cases as offline case by DET PTCC after getting scrutiny report from CEA, New Delhi will follow.
3. Creation of user id for private parties in the PTCC portal will be considered during the development of version 2 of the application.

BSNL: The testing is in progress, before final migration of PTCC WEB Portal from existing server at Hyderabad to new high capacity servers, installed at BSNL Data centre, Bengaluru. Creation of user id for private parties in the PTCC portal will be considered during the development of version 2 of the application, after Go-live of new server at Bengaluru.

This item may be kept open to monitor the status in the next meeting.

B.15 PTCC cases having induced voltages greater than 650 Volts:

In the last meeting, it was decided each case involving induced voltages greater than 650 V, where payment for protection through GD tubes is to be made by Power Utility, should be discussed in the SLPTCC meeting.

BSNL: Such cases are discussed in SLPTCC meeting.

After detailed deliberations, it is decided that item has been closed.

ITEM CLOSED.

C. NEW AGENDA:

C.1. Energisation Approval issuing clause in Route Approval Certificate in case of the Induced Voltage range is less than 430 volts:

In MOM of 105th CLPTCC meeting held at Kochi, on 10th Nov 2017, under item no. D2, it is mentioned that "It was decided that the PTCC Route approval Certificate, where there is no requirement of protection would be considered as Deemed Energisation Certificate.

Based on minutes of 105th CLPTCC meeting, on receipt of Induced Voltage values from SEB/CEA, ND in DE PTCC office, if the value of Induced Voltage is less than 430 volts, RAC is being issued from DEPTCC office with the recommendation of No GD tube protection without mentioning EA clause. In the recently conducted SLPTCC meeting held on 26/04/2019 at Chennai, Member Telecom SLPTCC, Tamilnadu Circle, Chennai insisted to mention about the EA clause i.e. it is to be stated in RAC that "Issuing of Energisation Approval is not required as there is no requirement of protection and hence RAC itself is considered as Deemed EA". Suitable guideline may be issued.

After detailed deliberations, Forum has decided that:

- (1) The EA Clause should be mentioned in Annexure-II of RAC ,**
- (2) It is to be stated in Annexure-II of RAC that "if Induced voltage is less than 430 volts, then issuing of Energisation Approval is not required as there is no requirement of protection hence RAC itself is considered as Deemed EA".**

C.2 Procedure to be followed for Private Power Utilities offering the proposals of capacity 220 K.V & above:

In the MOM of 107th CLPTCC meeting held on 14/12/2018 at Hyderabad, the decision of CLPTCC forum under item no. C.4. para 2 is that " For EHT power proposals of above 220 KV, the present procedure of registering the cases as OFF line case by DEPTCC after getting the scrutiny report from CEA/New Delhi will follow". This procedure is being followed in South Zone.

In South Zone, one EHT power line proposal of 230 KV is submitted by Private Power Utility to the all concerned including RAC & EA issuing Authority. On receipt of RAC, EA issuing authority while scrutinizing proposal with RAC has found that the Route length & EPR zone value mentioned in RAC differs with route length mentioned Questionnaire & topo-map & EPR zone value which was received directly from private party in their office. Hence they have returned the RAC to DE PTCC as they could not process further for EA as the route length and EPR zone value differs.

The procedure given in MOM of 107th CLPTCC meeting for Private power utility EHT cases of 33 KV and below 220 KV under item no. C.4. para 1 is " For EHT power proposals of 33 KV DC and below 220 KV, the private parties should submit the proposals to SEBs, who in turn will scrutinize, authenticate the documents including topo map and upload the proposal in the PTCC portal online" .

Hence it is suggested that the same procedure may be considered for private power utility EHT cases of 220 KV and above also through SEBs so that the dispute in Questionnaire & topo map can be

avoided and all EHT power line referred by Private Power Utility are registered as online and also the additional time consumption for PTCC clearance (Time consumption for getting scrutiny report etc) may be saved. Else suitable guidelines may be issued.

The suggestion given by DE (PTCC) South zone was not accepted by CEA/New Delhi. Hence Forum decided that present procedure should continue.

ITEM CLOSED.

C.3 EPR Calculation:

Presently, EPR is calculated on Single line to Ground fault current. As per PTCC Manual, EPR shall be calculated at maximum fault current flowing to earth through the earthing system of the electrical installation. Therefore, it remains to be decided whether single line to ground fault current is maximum or not.

CEA: As opined by CE, CEA, New Delhi, The power utilities, while submitting the proposal, should furnish the details of maximum Ground fault current, single phase fault current and three phase fault currents at substations and EPR should be calculated at maximum of these three fault currents.

Discussion done in details, but Forum did not took any decision.

C.4 Maps not being sent by certain Railway zone:

Certain Railway zones are sending only the annexure of block and control circuits details without a marked Topo map.

Railway: Joint Director, (Telecom), Railway board New Delhi assured that in future all documents will be submitted in proper manner.

This item may be kept open to monitor the status in the next meeting.

C.5 BSNL Telecom details:

Western region has submitted BSNL details without any annexure. CEA received only the marked topo map without annexure and In some cases, the name of the line given in the annexure and cover letter do not match.

DE WZ, BSNL: In future all the documents will be submitted in proper manner.

This item may be kept open to monitor the status in the next meeting.

C.6 Protection of Telecom cables which are lateral entrant to Power line:

Telecom cables which are laid before the charging of Power line are protected by PTCC Route Approval Process. For new telecom cables procedure has been laid out at page no 32 of PTCC Manual. But presently no procedure is followed for new telecom cables which are laid in the proximity of already charged Power line, which endangers the personnel and telecom equipment.

BSNL: Optical fibre cables (Non metallic) are used in BSNL network for local & long distance. At present no new telecom U/G copper cables are being laid and only unarmoured OF cables which are not prone to induction are being laid. However if new U/G copper cables are to be laid in future, then procedure will followed.

After detailed deliberations, this item has been closed.

ITEM CLOSED.

D. CLPTCC CASES

D.1 Non Receipt of IV calculation from CEA: BSNL agenda was about pending PTCC case due to non receipt of IV values from CEA. **Deliberation given in the Annexure itself.**

D.2 Agenda received from MPPTCL: Agenda was about pending PTCC cases.

CE CEA stated that agenda about PTCC pending cases are not complete because comments from CEA side are not included. He suggested that before finalization of agenda regarding pending PTCC cases, the same may be sent to CEA, so that comments may be incorporated from CEA side.

CLPTCC forum has agreed with CEA proposal.

Deliberation given in the Annexure itself

D.3 Agenda received from GETCO: Agenda was about pending PTCC cases.

Deliberation given in the Annexure itself

D.4 Agenda received from KSEB: Agenda was about pending PTCC cases.

Deliberation given in the Annexure itself

D.5 Agenda received from CSPTCL: Agenda was about pending PTCC cases.

Deliberation given in the Annexure itself

D.6 MSETCL Agenda: Agenda was about pending PTCC cases. Out of 15 cases, CLPTCC cases were 3 only and SLPTCC cases were remaining 12 cases. RAC has been for 2 cases and 1 case is pending.

Deliberation given in the Annexure itself

D.7 Agenda of PGCIL SRTS-II: Agenda was about pending PTCC cases. Out of 3 cases, RAC has been issued for 2 cases and only 1 case is remaining. **Deliberation given in the Annexure itself**

D.8 Agenda of PGCIL WRTS-II: Agenda was about pending PTCC cases. Out of 5 cases, RAC has been issued for 3 cases and only 2 cases are remaining. **Deliberation given in the Annexure itself**

D.9 KPTCL Agenda was about pending PTCC cases. Out of 18 cases, RAC has been issued for 11 cases and 7 cases are remaining. **Deliberation given in the Annexure itself**

D.10 TSTRANSCO Agenda was about pending PTCC cases. Out of 15 cases, RAC has been issued for 3 cases and 12 cases are remaining. **Deliberation given in the Annexure itself**

D.11 PSTCL, PATIALA Agenda was about pending PTCC cases. Out of 8 cases, RAC has been issued for 6 cases and 2 cases are remaining. **Deliberation given in the Annexure itself**

D.12 RRVPNL, Jaipur Agenda was about pending PTCC cases. Out of 6 cases, RAC has been issued for 5 cases and 1 case is remaining. **Deliberation given in the Annexure itself**

E. ADDITIONAL AGENDA

E.1 Non confirmation of minutes of 107th CLPTCC meeting:

CEA does not agree with decision taken in 107th CLPTCC meeting, on point no. "B.11 charging of 33kV Power line from Pulwai to PDCIL Gadwal Mahboobnagar Telangana".

Already covered in point no. A, hence item closed.

The meeting ended with vote of thanks to the Chair

Pranab K. Jau

LIST OF PARTICIPANTS

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Prateek Singh

ding study on PTCC clearance of 132 KV earth electrode ... <https://mail.google.com/mail/u/1/?ik=c57cc78373&view=pt&search=>



DET PTCC EASTERN REGION <detptccer@gmail.com>

Regarding study on PTCC clearance of 132 KV earth electrode line for Alipurduar HVDC station.

Pradeep Nirgude <prnirgude@cpri.in>

Sun, Dec 16, 2018 at 12:08 PM

To: detptccer@gmail.com

Cc: "A K Sinha" <gmeastbsni@gmail.com>, celdntcea@gmail.com, "AGM PTCC, JABALPUR" <agmsw@rediffmail.com>, meera k s AD_PS <meera@cpri.in>, dg <dgcprn@cpri.in>

Dear sir

Please refer to the gist of discussions dated 25th October, 2018. It was opined by me that the transient fault current data submitted by PGCIL suggest that the fault current maximum peak current reaches in about 5ms, which is almost a quarter cycle of 20 ms (50Hz) AC waveform and thus, transient DC fault current frequency of 50Hz can be considered as the worst case that gives the maximum Induced voltage (IV) magnitude using the same formula given in PTCC manual. It was also opined that the Induced Voltage (IV) may be computed by considering 50Hz (worst case) as done in ± 500 kV HVDC Mundra – Mahindergarh line (Annex-IV-B). Hence, existing PGCIL fault study data may be used and calculate IV as done previously using the mutual coupling, soil data, power line and communication line profiles etc using formula given in PTCC manual. It may also please be noted that CPRI has not done such calculations previously.

It was noted in the gist of meeting that CPRI will explore the possibility of carrying out simulation studies to compute the transient fault currents. As noted above and in gist of meeting, if the available PGCIL data is used for IV calculations, further study by CPRI is not required. However, if it is desired to have the fault study be conducted by CPRI, it is felt essential to have a meeting of all the concerned with our colleagues at Power System Division, CPRI, Bangalore at a mutually convenient date and time at Bangalore to understand and discuss the scope, data required for modeling etc. and conclude on the matter. As far as exploring the possibility of conducting the study free of cost is concerned, kindly note that the matter can not be decided by us and needs to be put up to the competent authority.

In case of a decision to have a fault simulation study conducted by CPRI, It is requested that PTCC, Chair may call for a meeting at CPRI, Bangalore with Power System Division colleagues (Contact: Smt. K. Meera, Additional Director and HOD, PSD, CPRI, Bangalore- Email: meera@cpri.in) along with all other stake holders to work out the scope, discuss the possibility of carrying out the proposed study by Power System Division, CPRI, Bangalore, time and costs involved etc. However, the convenient mutually agreed date and time for will be communicated by Power System Division after obtaining the approval from the competent authority for such a meeting.

With best regards

Dr. Pradeep Nirgude
Additional Director and Unit Head
UHV Research Laboratory
Central Power Research Institute
Hyderabad - 500098, INDIA
9440114115

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Pradeep Nirgude

3 attachments

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